

Chemický ústav Slovenskej akadémie vied



SPRÁVA O ČINNOSTI ZA ROK 2018

**Bratislava
január 2019**

Obsah osnovy Správy o činnosti organizácie SAV za rok 2018

1. Základné údaje o organizácii	1
2. Vedecká činnosť	3
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku	14
4. Medzinárodná vedecká spolupráca	20
5. Vedná politika	24
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky	25
7. Spolupráca s aplikačnou a hospodárskou sférou	36
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie	38
9. Vedecko-organizačné a popularizačné aktivity	39
10. Činnosť knižnično-informačného pracoviska	45
11. Aktivity v orgánoch SAV	46
12. Hospodárenie organizácie	48
13. Nadácie a fondy pri organizácii SAV	49
14. Iné významné činnosti organizácie SAV	49
15. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV	50
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám	53
17. Problémy a podnety pre činnosť SAV	53

PRÍLOHY

<i>A Zoznam zamestnancov a doktorandov organizácie k 31.12.2018</i>	56
<i>B Projekty riešené v organizácii</i>	62
<i>C Publikačná činnosť organizácie</i>	85
<i>D Údaje o pedagogickej činnosti organizácie</i>	106
<i>E Medzinárodná mobilita organizácie</i>	108
<i>F Vedecko-popularizačná činnosť pracovníkov organizácie SAV</i>	112
<i>Ohlasy (citácie)</i>	117

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV

Riaditeľ: Ing. Miroslav Kooš, DrSc.

Zástupca riaditeľa: Mgr. Stanislav Kozmon, PhD.

Vedecký tajomník: RNDr. Desana Lišková, PhD.

Predseda vedeckej rady: Ing. Vladimír Mastihuba, PhD.

Člen snemu SAV: Ing. Miroslav Kooš, DrSc.

Adresa: Dúbravská cesta 9, 845 38 Bratislava

<http://chem.sk>

Tel.: 02/ 59410201, 02/ 54772080

Fax: 02/ 59410222

E-mail: chemsekr@savba.sk

Názvy a adresy detašovaných pracovísk: nie sú

Vedúci detašovaných pracovísk: 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
		M	Ž	M	Ž			
Celkový počet zamestnancov	135	55	80	12	21	122	109.43	64.69
Vedeckí pracovníci	79	38	41	8	18	66	58.41	57.41
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	15	7	8	4	2	15	11.78	7.28
Odborní pracovníci VŠ (ostatní zamestnanci ²)	3	0	3	0	0	3	3	0
Odborní pracovníci ÚS	28	4	24	0	1	28	26.49	0
Ostatní pracovníci	10	6	4	0	0	10	9.75	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5

² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2018 (zamestnanci 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 31.12.2018 (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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2018)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	10	28	1	2	10	20	8
Ženy	1	40	0	0	2	22	17

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
Muži	5	5	3	5	4	1	2	3	12
Ženy	2	6	6	3	3	2	3	9	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
Muži	52.8	49.7	51.7	46.3	50.6	45.6
Ženy	47.5	46.9	43.1	42.1	47.8	46.9
Spolu	49.6	48.0	47.2	43.9	49.3	46.3

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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

V roku 2018 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 2018

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	18	7	172170	172170	-	-	8227	-
2. Projekty APVV	8	7	-	-	275068	196883	-	52876
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	1	0	36962	36962	24641	24641	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2018

Štruktúra projektov	Miesto podania	Organizácia nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2018	-	7	8
2. Projekty výziev OP ŠF podané r. 2018	Bratislava	2	1
	Regióny		1

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2018

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

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 7. RP EÚ a Horizont 2020	2	2	4480	4480	21650	21650	-	-
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	25000	-
3. Projekty COST	0	7	-	-	-	-	-	4406
4. Projekty EUREKA, NATO, CERN, UNESCO, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	2	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	3	-	-	-	-	-	3180
8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)	3	7	65961	65961	2238	2238	-	-
9. Iné projekty	0	2	-	-	27378	27378	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2018

Názov projektu: Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielenú bunkovú interakciu

Anglický názov: Synthetic biology of carbohydrate-binding proteins: engineering protein-carbohydrate interactions for diagnostics and cell targeting-synBIOcarb

Akronym: synBIOcarb

Kód výzvy: FH2020-MSCA-ITN-2018

Program: H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

Podprogram (topic): Marie Skłodowska-Curie Actions

Typ kontraktu: MSCA-ITN-ETN

Koordinátor: University of Leeds, UK

Zodp. riešiteľ: Dr. Ceri Williams

Zodp. riešiteľ z CHÚ: Ing. Ján Tkáč, DrSc.

Počet rieš. inštitúcií: 8 (Nemecko: 1, Veľká Británia: 1, Rakúsko: 2, Francúzsko: 2, Dánsko: 1, Slovensko: 1)

Doba riešenia: 01/10/2018-30/09/2022

Stav: Schválený

Názov projektu: Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty

Anglický názov: A novel detection protocols for reliable prostate cancer assays

Akronym: ANDREA

Kód výzvy: ERC-2018-PoC

Program: H2020-EU.1.1. - Excellent Science - European Research Council

Typ kontraktu: ERC-POC - Proof of Concept Grant

Nositeľ projektu: Chemický ústav SAV

Zodp. riešiteľ z CHÚ: Ing. Ján Tkáč, DrSc.

Počet rieš. inštitúcií: 2 (Slovensko: Chemický ústav SAV, Glycanostics, s.r.o.)

Doba riešenia: 01/12/2018-31/05/2020

Stav: Schválený

Názov projektu: Prognóza rakoviny efektívnymi skriningovými stratégiami

Anglický názov: Prognosis of cancer via efficient screening strategies

Akronym: PROCESS

Kód výzvy: PP-H2020-18

Program: PP-H2020

Nositeľ projektu: University of Aachen, Germany

Zodp. riešiteľ z CHÚ: Ing. Ján Tkáč, DrSc.

Spoluriešiteľ: Chemický ústav SAV

Stav: Zamietnutý

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	A	B
Počet podaných projektov Horizont 2020	1	2

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 štrukturálnych fondov EÚ v ďalších výzvach

V nadväznosti na úspešnosť vo výzve OPVaV 2015/3.1/01-SORO a OPVaV 2015/1.1/01-SORO v oblastiach špecializácie RIS3 SK (v roku 2015 ústav získal 2 projekty v celkovej sume ca 19 mil. €; financie boli použité na nákup prístrojovej infraštruktúry), CHÚ SAV sa chcel zapojiť do ďalších výziev v druhej etape pre financovanie výskumných aktivít podľa prílohy v úspešných projektoch (financovanie nákupu spotrebného materiálu, energií a ľudských zdrojov). Tieto výzvy však boli vyhlásené až koncom roka 2018. Ústav už podal žiadosť do výzvy v rámci bratislavského kraja a začiatkom roka 2019 podá žiadosť aj vo výzve pre mimobratislavský kraj. V oboch prípadoch je ústav kvalifikovaný ako oprávnený žiadateľ. Ako žiadateľ sa ústav ešte zapojil do výzvy na podporu výskumno-vývojových kapacít/refundácia. V ďalších dvoch projektoch v rámci výziev vyhlásených v roku 2018 ústav figuruje ako partner.

Názov projektu: Dobudovanie infraštruktúry pre biomedicínsky výskum
 Anglický názov: Infrastructure completion for biomedical research
 Kód projektu v ITMS2014+: pokračovanie projektu RIS3 SK/2015/ - II. etapa na Spotrebný materiál, hodnotiaca fáza
 Číslo výzvy: OPVaI-VA/DP/2018/2.1.1-05
 Zodpovedný riešiteľ za CHÚ SAV: RNDr. Ján Mucha, CSc.
 Žiadateľ: Chemický ústav SAV
 Partneri: 0
 Trvanie projektu: 06/2019-06/2023

Názov projektu: Modernizácia výskumnej a vývojovej infraštruktúry Národného ústavu reumatických chorôb v Piešťanoch
 Kód projektu v ITMS2014+: pokračovanie projektu RIS3 SK/2015/ - II. etapa na Spotrebný materiál, hodnotiaca fáza
 Číslo výzvy: OPVAI-VA/DP/2018/1.1.3-05
 Zodpovedný riešiteľ za CHÚ SAV: Ing. Jaroslav Katrlík, PhD.
 Žiadateľ: NÚRCH, Piešťany
 Partneri: CHÚ SAV, Technická univerzita v Košiciach, Regenmed spol. s r.o.
 Trvanie projektu: 06/2019-06/2023

Názov projektu: Dobudovanie multidisciplinárneho centra pre biomedicínsky výskum - BIOMEDIRES
 Kód projektu v ITMS2014+: pokračovanie projektu RIS3 SK/2015/ - II. etapa na Spotrebný materiál, hodnotiaca fáza
 Číslo výzvy: OPVAI-VA/DP/2018/1.1.3-05
 Zodpovedný riešiteľ za CHÚ SAV: Mgr. Peter Baráth, PhD.
 Žiadateľ: Medirex Group Academy, n.o.
 Partneri: CHÚ SAV
 Trvanie projektu: 06/2019-06/2023

Názov projektu: Integrácia výsledkov multiomik štúdií a biotechnologická produkcia biologicky významných látok
 Anglický názov: Integrating multiomics study results and biotechnological production of biologically important substances
 Kód projektu v ITMS2014+: NFP313010T560 (podpora výskumno-vývojových kapacít/refundácia)
 Číslo výzvy: OPVaI-VA/DP/2018/1.1.3-10
 Zodpovedný riešiteľ za CHÚ SAV: RNDr. Ján Mucha, CSc.
 Žiadateľ: CHÚ SAV
 Partneri: Slovenská poľnohospodárska univerzita v Nitre
 Trvanie projektu: 06/2016-12/2019

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Bunková stena v ochrane rastlín voči biotickému a abiotickému stresu (Lišková, Kollárová, Vivodová-Vatehová, Soukup, Lux)

Rastliny si vyvinuli mechanizmy, ktorými sa bránia voči pôsobeniu vonkajších faktorov. Prvou bariérou príjmu toxických kovov, ako aj vnikania patogéna do buniek, je bunková stena. Zistilo sa, že v bunkových stenách nadzemných častí kukurice prítomnosť kadmia zvyšovala podiel celulózy a znižovala podiel lignínu na rozdiel od koreňov, kde bol pomer opačný. Niektoré prírodné látky môžu zmierniť negatívne účinky toxických kovov, či mikroorganizmov. Jednou z možností ochrany

rastlín je aplikácia špecifických oligosacharidov, v našom prípade galaktoglukomanánových oligosacharidov (GGMOs), pochádzajúcich z bunkových stien rastlín. GGMOs zmiernili stres spôsobený prítomnosťou kadmia zvýšením celkovej vitality rastlín napriek neskoršiemu zakladaniu apoplazmatických bariér v koreňoch, a tým aj vyššiemu príjmu kadmia rastlinami. Inou možnosťou modifikácie bunkovej steny v zmysle ochrany voči mikroorganizmom je aplikácia kremíka. Ramanovou spektroskopiou sa potvrdilo, že exogénna aplikácia kremíka vyvolala akumuláciu fenolových látok v bunkových stenách exodermis ciroku a pozitívne tak ovplyvnila rast rastlín. Uvedené zistenia naznačujú potenciál využitia GGMOs a kremíka pri ochrane rastlín a vo fytoremediačných postupoch. Projekty VEGA 2/0083/14, 2/0105/18, 2/0092/17. (**Chemický ústav SAV**).

KOLLÁROVÁ, Karin - KAMENICKÁ, Viktória - VATEHOVÁ, Zuzana - 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. (2.833 - IF2017). (2018 - Current Contents). ISSN 0176-1617. (ADCA)

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. (2.800 - IF2017). (2018 - Current Contents). ISSN 0944-1344. (ADCA)

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. (2.303 - IF2017). (2018 - Current Contents). ISSN 0032-0862. (ADCA)

2.3.2. Aplikačný typ

Možnosti využitia elektrochémie a optických metód pri stanovení klinicky významných látok (Chocholová, Bertók, Jáné, Lorencová, Holazová, Vikartovská, Tkáč)

Rôzne typy elektrochemických optických metód boli v práci využité na detekciu širokého spektra látok akými sú biomarkery ochorení. Konkrétne sa jednalo o stanovenie viacerých typov glykánov, nízkomolekulových látok rôznymi technikami akými sú elektrochemická impedančná spektrometria, cyklická voltampérometria a diferenčná pulzná voltampérometria, modifikovaná ELISA a fluorescenčné microarray. Cieľom bolo ich využitie na diagnostiku reumatoidnej artritídy (séropozitívny i séronegatívny typ ochorenia) a rakoviny prsníka. V práci sme využili aj veľmi perspektívny 2D nanomateriál MXén, ktorý sme elektrochemicky stabilizovali platinovými nanočasticami a takto upravený hybridný nanomateriál sme použili na stanovenie nízkomolekulových látok prítomných v ľudských sérach. Okrem toho sme pripravili dve kapitoly v knihe, v ktorých sme sa sústredili na možnosti využitia elektrochémie na stanovenie rôznych biomolekúl enzýmovými biosenzormi ako i na možnosti praktického využitia mikrobiálnych biosenzorov. Projekty VEGA 2/0137/18, APVV-14-0753. (**Chemický ústav SAV**).

FILIP, Jaroslav - TKÁČ, Ján. Enzymatic electrodes: Characteristics, fabrication methods, and applications. In WANDERL, Klaus (ed.). *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*. Oxford, UK: Elsevier, 2018, vol. 7.1, p. 190-199. ISBN 978-0128097397. (ABC)

TKÁČ, Ján - FILIP, Jaroslav - KASÁK, Peter. Microdetectives: Fundamentals, fabrication and applications of electrochemical microbial biosensors. In WANDERL, Klaus (ed.). *Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry*. Oxford, UK: Elsevier, 2018, vol. 7.1, p. 337-349. ISBN 978-0128097397. (ABC)

CHOCHOLOVÁ, Erika - BERTÓK, Tomáš - JÁNÉ, Eduard - LORENCOVÁ, Lenka - HOLAZOVÁ, Alena - BELICKÁ, Ľudmila - 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. (2.926 - IF2017). (2018 - Current Contents). ISSN 0009-8981. (ADCA)

CHOCHOLOVÁ, Erika - BERTÓK, Tomáš - LORENCOVÁ, Lenka - HOLAZOVÁ, Alena - FARKAŠ, Pavol - VIKARTOVSKÁ, Alica - BELLA, Vladimír - VELICOVÁ, Darina - KASÁK, Peter - ANDICSOVÁ ECKSTEIN, 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: Chemical*, 2018, vol. 272, p. 626-633. (5.667 - IF2017). (2018 - Current Contents). ISSN 0925-4005. (ADCA)

LORENCOVÁ, Lenka - BERTÓK, Tomáš - FILIP, Jaroslav - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - MAHMOUD, Khaled A. - TKÁČ, Ján. Highly stable $Ti_3C_2T_x$ (MXene)/Pt nanoparticles-modified glassy carbon electrode for H_2O_2 and small molecules sensing applications. In *Sensors and Actuators B: Chemical*, 2018, vol. 263, p. 360-368. (5.667 - IF2017). (2018 - Current Contents). ISSN 0925-4005. (ADCA)

2.3.3. Medzinárodné vedecké projekty

Vplyv nízkomolekulárnych fukoidánov na rast buniek rakoviny prostaty človeka (Capek)

Undaria pinnatifida je jedlá hnedá morská riasa, ktoré rastie na brehoch mnohých krajín Tichého oceánu. Najmä pobrežná oblasť juhokórejského polostrova je perspektívnou oblasťou pre rast a kultivácie týchto rias, ktoré sa v Kórei konzumovali mnoho rokov. Z hnedých morských rias sa izoloval vysokomolekulový polymér fukoidán ako O-acetylovaný a sulfátovaný galaktofukán. Enzymová degradácia fukoidánu poskytla polysacharidy s nižšou molekulovou hmotnosťou v rozmedzí od 1389 do 3749 g/mol. NMR merania ako i cukorná väzbová analýza potvrdili, že fukoidán pozostáva prevažne z 1,3-viazaných jednotiek α -fukózy, z terminálnych, 1,3- alebo 1,6-viazaných jednotiek β -galaktózy. Obidva cukry sú pritom čiastočne sulfátované v polohách O-2, O-3 alebo O-4. Depolymerizované fukoidány boli použité na *in vitro* a *in vivo* biologické testy. Predbežné výsledky naznačujú, že degradované fukoidány významnejšie indukovali zastavenie bunkového cyklu vo fáze G0/G1. Fukoidány zvýšili expresiu mRNA receptora-5, pomer markerov Bax k Bcl-2, štiepenie kaspáz (proteázové enzýmy) a PARP, depolarizáciu potenciálu mitochondriálnej membrány a generáciu ROS. Fukoidány v dávke 200-400 mg/kg významne redukovali objem nádoru aj veľkosť nádoru u myší. Tieto výsledky preukázali, že depolymerizované fukoidány potláčajú rast buniek rakoviny prostaty človeka *in vitro* a *in vivo*, čo naznačuje, že môžu byť použité ako funkčná zložka v potravinách prospešných pre zdravie alebo ako terapeutické činidlo na prevenciu alebo liečenie ľudskej prostaty nezávisle od androgénov rakoviny. Projekty Gyeonggi-do GRRC programme (Project No. 2017-B01), Research Fund of the Catholic University of Korea, South Korea, Ministry of Industry and Trade of the Czech Republic (MPO–TRIO project ALGAL FOODS–FV10155). (Chemický ústav SAV).

LEE, Jisun - LEE, Seul - SYNYTSYA, 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*, 2018, vol. 20, p. 813-828. (2.328- IF2017). (2018 - Current Contents). ISSN 1436-2228. (ADCA)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2018/ doplnky z r. 2017
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)	3 / 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)	51 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)	4 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	1 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	1 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	1 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	18 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	4 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	3 / 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 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. 2017 (zdroj JCR) <i>Počet článkov / doplnky 2016</i>	23 / 0	16 / 0	5 / 0	7 / 0	51 / 0
Podľa SJR z r. 2017 (zdroj Scimago) <i>Počet článkov / doplnky 2016</i>	35 / 0	14 / 0	5 / 0	1 / 0	55 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2017/ doplnky z r. 2016
Citácie vo WOS (1.1, 2.1)	2763 / 104
Citácie v SCOPUS (1.2, 2.2)	356 / 60
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	1 / 2
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	60/1
Prednášky a vývesky na domácich vedeckých podujatiach	54/0

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

KATRLÍK, Jaroslav. Glycoprofiling by lectin-based protein microarrays for biomedical applications. In *Microarrays and Nanoarrays in Microfluidics and Multiplex Diagnostics within IVD and POCT (MMM), October 11-12, 2018, Vienna, Austria*.

Abstract published: In *Abstract Book: Microarrays and Nanoarrays in Microfluidics and Multiplex Diagnostics within IVD and POCT (MMM), October 11-12, 2018, Vienna, Austria*. Berlin: M24You GmbH, 2018, p. 17. (AFE)

TKÁČ, Ján. Specific lectin-based protein glycoprofiling for diagnostics. In *Synthetic glycobiology: Theo Murphy International Scientific Meeting, October 8-9, 2018, Chicheley, UK*.

Abstract published: In The Royal Society: <https://royalsociety.org/science-events-and-lectures/2018/10/synthetic-glycobiology/>

TKÁČ, Ján. Glykoproteíny, biomarkery a elektrochemické senzory. In *Potlach č. IV o vybraných kapitolách z (bio)elektroanalitické chemie aneb pojd'me spoločne lépe rozumět tomu, co děláme, 5. březen 2018, Lékařská fakulta, Univerzita Palackého v Olomouci, Olomouc, Česká republika*.

TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - BELICKÁ, Ludmila - HOLAZOVÁ, Alena - JÁNĚ, Eduard - CHOCHOLOVÁ, Erika - KVĚTOŇ, Filip - KASÁK, Peter. Lectin and glycan biosensors applied in diagnostics. In *The 43rd FEBS Congress, 7-12 July, 2018, Prague, Czech Republic*.

Abstract published: In *FEBS Open Bio*, 2018, vol. 8, suppl. S1, p. 46-47, abstract no. S.16-2. (AFE)

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

PETRUŠ, Ladislav - PRIBULOVÁ, Božena - SMRTIČOVÁ, Hana - VLČKOVÁ, Silvia - HRIVNÁKOVÁ, Viera - PETRUŠOVÁ, Mária. Toward synthesis of dodeca-cavitane, sugar-based analogue of dodecahedrane possessing a cavity for hydrogen bonding. In *New trends in chemistry: Trends in chemistry, research and education at Faculty of Sciences of P. J. Šafárik University in Košice, November 9, 2018, Košice*. (vyžiadaná prednáška - Dr. Petruš)

Abstract published: In ORIŇAKOVÁ, Renáta (ed.). *Book of Abstracts: New trends in chemistry: Trends in chemistry, research and education at Faculty of Sciences of P. J. Šafárik University, November 9, 2018, Košice*. Košice: Pavol Jozef Šafárik University, 2018, p. 6. ISBN 978-80-8152-666-4. (AFF)

TKÁČ, Ján. Inovatívny spôsob diagnostiky rakoviny prostaty. In *XIII. Kongres SSKB a SSLM s medzinárodnou účasťou, 4.-6. november 2018, Piešťany*.

TKÁČ, Ján. Využitie analýzy glykánov v diagnostike rakoviny prostaty. In *25. výročná konferencia Slovenskej urologickej spoločnosti SLS, 6.-8. jún 2018, Tále, Bystrá*.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

KATRLÍK, Jaroslav. Lectin-based biosensors and biochips. In *Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China, November 20, 2018*.

KATRLÍK, Jaroslav. Lectin-based biosensors and biochips. In *Institutes of Biomedical Sciences, Fudan University, Shanghai, China, November 22, 2018*.

LUX, Alexander. Checkpoints of transport processes in plants facing toxic metal stress. In *Department of Plant Biophysics & Biochemistry, Biology Center of the Czech Academy of Sciences, České Budejovice, Czech Republic, September 21, 2018*.

TKÁČ, Ján. Elektrochémia na modifikovaných povrchoch: aplikácie v diagnostike a príprave bioanód. In *The Heyrovský Memorial Lecture 2018. the School of Chemistry Building, Faculty of Science, Charles University, Prague, Czech Republic, December 11, 2018*.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2018

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

Chemický ústav SAV odpredal spoločnosti Azoter Trading, s.r.o., Bratislava, exkluzívnu licenciu na využívanie patentovaného kmeňa mikromycéty *Trichoderma atroviride* I2 (SK patent č. 288023; udelený: 14.11.2012; pôvodcovia patentu: V. Farkaš, M. Nemčovič, L. Jakubíková, V. Šubíková, J. Drimal, A. Janitor, A. Kunca, R. Leontovyč).

2.7.4. Realizované patenty

Produkcia spór huby *Trichoderma atroviride*, ktoré sú predmetom SK patentu č. 288023 (PP 5108-2008), firmou Azoter Trading, s.r.o., Bratislava, prevádzka Biozávod, Petrova Ves. V roku 2018 ústav odpredal tejto firme licenciu na využívanie uvedeného patentovaného kmeňa.

Finančný prínos pre organizáciu SAV v roku 2018 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
Baráth Marek	VEGA	1
Farkaš Pavol	VEGA	1
Katrlík Jaroslav	APVV/VV 2018	1
Kollárová Karin	VEGA	1
Kooš Miroslav	VEGA	1
Lišková Desana	VEGA	1
Mastihuba Vladimír	VEGA	1
Mastihubová Mária	VEGA	1
Matulová Mária	VEGA	1
Mičová Júlia	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bertók Tomáš	0	0	1	0	0	0	0
Biely Peter	0	0	7	0	0	0	0
Breierová Emília	0	0	2	1	0	0	0
Capek Peter	0	0	7	0	0	0	0
Čížová Alžbeta	0	0	1	0	0	0	0
Dudášová Hana	0	0	3	1	0	0	0
Farkaš Pavol	0	0	4	0	0	0	0
Farkaš Vladimír	0	0	1	0	0	0	0
Gemeiner Peter	0	0	7	0	0	0	0

Hricovíni Miloš	0	0	2	0	0	0	0
Hricovíniová Zuzana	0	0	1	0	0	0	0
Hromádková Zdenka	0	0	1	0	0	0	0
Katrlík Jaroslav	0	0	4	0	0	0	0
Kollárová Karin	0	0	6	1	1	0	0
Kóňa Juraj	0	0	3	0	0	0	0
Košťálová Zuzana	0	0	1	0	0	0	0
Lišková Desana	0	0	1	0	0	0	0
Lorencová Lenka	0	0	1	0	0	0	0
Mastihuba Vladimír	0	0	4	0	0	0	0
Stratilová Eva	0	0	2	0	0	0	0
Šimkovic	0	0	10	0	0	0	0
Tkáč Ján	0	0	76	0	0	0	0
Tvaroška Igor	0	0	4	0	0	0	0
Vadkertiová Renáta	0	0	3	0	0	0	0
Vivodová Zuzana	0	0	1	0	1	0	0
Spolu	0	0	152	3	2	0	0

2.11. Iné informácie k vedeckej činnosti

Z celkového počtu 57 vedeckých prác v časopisoch je 51 publikovaných v periodikách evidovaných v Current Contents Connect (CCC) a 4 práce sú v časopisoch evidovaných vo Web of Science (WOS) a Scopus, pričom na 9 % z týchto prác sú autormi len pracovníci ústavu, 28 % prác je publikovaných v spolupráci s domácimi a 63 % so zahraničnými spoluautormi.

Impakt faktor (IF) periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 0.422 do 5.963 (v 11 prípadoch IF presahuje hodnotu 5.000, v 2 prípadoch presahuje 4.000 a v 14 prípadoch presahuje hodnotu 3.000), pričom jeho priemerná hodnota 3.245 (oproti vlnajšej hodnote nárast o 0.005) 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 = 2.229 pre Biotechnology & Applied Microbiology, 2.000 pre Chemistry Organic, 2.906 pre Biochemistry & Molecular Biology, 1.655 pre Polymer Science a 2.631 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o kvartiloch pre dané časopisy: podľa SJR sa 63.6 % z týchto časopisov nachádza v Q1 a 25.5 % v Q2 (spolu 89.1 % v Q1 a Q2). Podľa JCR je to 45.1 % v Q1 a 31.4 % v Q2 (spolu 76.5 % v Q1 a Q2).

Celkový počet citácií 3286 (z toho 3283 sú citácie vo WOS a Scopus) predstavuje oproti minulému roku nárast o 179 (u citácii z WOS a Scopus je to nárast o 178), čo možno tiež považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 115 príspevkov (prednášky a postre).

Prístup do elektronických databáz Thomson ISI (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (SciVerse-ScienceDirect, Wiley Online Library, Blackwell Synergy, SpringerLink, Knovel, Reaxys, SciFinder a čiastočne aj ACS Publications) značne uľahčuje a zefektívňuje vyhľadávanie a

sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Apelujeme na kompetentných, aby tento prístup ostal zachovaný aj v budúcnosti. 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 RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

Značný počet vyžiadanych recenzií monografií, vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia, účasť na medzinárodných vedeckých podujatiach, pozvaných prednášok ako aj počet prijatých a vyslaných vedeckých pracovníkov 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. Úhrne sa riešilo 59 projektov - z toho 42 domácich (VEGA - 25, APVV - 15, SASPRO - 1, iné - 1) a 17 zahraničných (4 projekty 7. RP EÚ a H2020, 1 projekt JRP, 7 projektov COST, 2 projekty v rámci medzivládnych dohôd o VTS a 3 bilaterálne projekty), pričom získané finančné prostriedky predstavujú sumu cca 1129,6 tisíc €, z čoho je cca 626,2 tisíc € zo zahraničných projektov, 431,1 tisíc € z domácich projektov a 72,3 tisíc € je podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty 7. RP EÚ a COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť 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).

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 2018

Forma	Počet k 31.12.2018						Počet ukončených doktorantúr v roku 2018					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	2	15	1	7	1	6	2	3	0	0	2	2
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	2	15	1	7	1	6	2	3	0	0	2	2
Súhrn	17		8		7		5		0		4	

Uvádza sa len doktorandov organizácie ako externej vzdelávacej inštitúcie

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 2018 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. Tomáš Klunda	interné štúdium hrazené z prostriedkov SAV	9 / 2014	11 / 2018	4.1.16 organická chémia	Ing. Monika Poláková PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Ing. Tomáš Krajčovič	interné štúdium hrazené z prostriedkov SAV	9 / 2014	8 / 2018	5.2.25 biotechnológie	Ing. Marek Bučko PhD., Chemický ústav SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Martina Križáková	interné štúdium hrazené z prostriedkov SAV	9 / 2014	8 / 2018	5.2.25 biotechnológie	Ing. Jaroslav Katrlík PhD., Chemický ústav SAV	Prírodovedecká fakulta UK
Ing. Lucia Pokorná	interné štúdium hrazené z prostriedkov SAV	10 / 2008	8 / 2018	4.1.22 biochémia	RNDr. Peter Griač CSc., Centrum biovied SAV	Fakulta chemickej a potravinárskej technológie STU
Mgr. Veronika Virčíková	interné štúdium hrazené	9 / 2010	8 / 2018	4.1.22 biochémia	RNDr. Peter Griač CSc., Centrum biovied	Prírodovedecká fakulta UK

	z prostrídkov SAV				SAV	
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Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	0

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3e Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
organická chémia	4.1.16	Fakulta chemickej a potravinárskej technológie STU
organická chémia	4.1.16	Prírodovedecká fakulta UK
fyzikálna chémia	4.1.18	Fakulta chemickej a potravinárskej technológie STU
fyzikálna chémia	4.1.18	Prírodovedecká fakulta UK
makromolekulová chémia	4.1.19	Fakulta chemickej a potravinárskej technológie STU
biochémia	4.1.22	Fakulta chemickej a potravinárskej technológie STU
biochémia	4.1.22	Prírodovedecká fakulta UK
biotechnológie	5.2.25	Fakulta chemickej a potravinárskej technológie STU
biotechnológie	5.2.25	Prírodovedecká fakulta UK

Tabuľka 3f Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných 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
RNDr. Peter Biely, DrSc. (biochémia)	RNDr. Peter Biely, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	Ing. Maroš Bella, PhD. (IIa)
Ing. Peter Gemeiner, DrSc. (biotechnológie)	prof. RNDr. Alexander Lux, CSc. (Prírodovedecká fakulta	Ing. Michal Híreš, PhD. (IIb)

	UK)	
Ing. Ján Hirsch, DrSc. (organická chémia)	Ing. Ján Tkáč, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	RNDr. Alena Holazová, PhD. (IIa)
Ing. Miloš Hricovíni, PhD. (chemická fyzika)		Ing. Michal Hricovíni, PhD. (IIb)
Ing. Miroslav Kooš, DrSc. (organická chémia)		Mgr. Tomáš Klunda, PhD. (IIb)
RNDr. Desana Lišková, PhD. (fyziológia rastlín)		Ing. Tomáš Krajčovič, PhD. (IIb)
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		Mgr. Martina Križáková, PhD. (IIb)
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		RNDr. Lenka Lorencová, PhD. (IIa)
Ing. Vladimír Mastihuba, PhD. (biotechnológie)		Mgr. Zuzana Vivodová, PhD. (IIa)
Ing. Vladimír Mastihuba, PhD. (chémia a technológia potravín)		Ing. Michal Híreš, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		Ing. Michal Hricovíni, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ján Tkáč, DrSc. (biochémia)		Mgr. Tomáš Klunda, PhD. (PhD., Prírodovedecká fakulta UK)
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		Ing. Tomáš Krajčovič, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
		Mgr. Martina Križáková, PhD. (PhD., Prírodovedecká fakulta UK)
		Bc. Ondrej Penzeš (Bc., Vysoká škola zdravotníctva a sociálnej práce sv. Alžbety v Bratislave)

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	0	5	1
Celkový počet hodín v r. 2018	20	0	310	40

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

Tabuľka 3h Aktivita pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	13
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	17
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	20
4.	Počet školených doktorandov (aj pre iné inštitúcie)	29
5.	Počet oponovaných dizertačných a habilitačných prác	12
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	7
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	3
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	7
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

3.7. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV mal v roku 2018 akreditovaných 5 študijných odborov doktorandského štúdia: na Prírodovedeckej fakulte UK v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.22 biochémia, 5.2.25 biotechnológie) a na Fakulte chemickej a potravinárskej technológie STU v Bratislave (4.1.16 organická chémia, 4.1.18 fyzikálna chémia, 4.1.19 makromolekulová chémia, 4.1.22 biochémia, 5.2.25 biotechnológie). V roku 2018 skončila platnosť akreditácie v odbore 4.2.7. mikrobiológia (na PriF UK) v dôsledku presiahnutia vekovej hranice 70 rokov u garanta.

V priebehu roka 2018 sa na CHÚ SAV školilo 26 doktorandov (z toho 8 novoprijatých - v dennej forme štúdia), z ktorých 5 úspešne obhájilo doktorandskú dizertačnú prácu. Dvaja doktorandi a dve doktorandky ukončili denné štúdium bez obhajoby a pokračujú v nadštandardnej forme štúdia, aby mohli v krátkej dobe obhájit 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. Dlhodobý 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 podržia na doktorandské štúdium jednotlivé fakulty.

Na základe výsledkov kontrolných dní, ktoré sa konali v októbri 2018, sa dá predpokladať, že v roku 2019 by mali doktorandskú dizertačnú prácu obhajovať 4 doktorandi.

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 aktivity počas Dňa otvorených dverí na ústave, ktorý sa pravidelne koná každý rok v novembri. Viacerí sa aktívne zapájajú aj do pedagogickej a popularizačnej 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. Za študijné a vedecké výsledky získali viacerí aj ocenenia (napr. Ing. Filip Květoň - cena Shimadzu 2018, diplom Methrom Slovensko a Česká republika; RNDr. Lenka Lorencová, PhD. - diplom Metrohm

Slovensko; Ing. Zuzana Pakanová - Cena za najlepšiu publikáciu Slovenskej fyziologickej spoločnosti; Ing. Vladimír Sládek, PhD. - 2. miesto v Súťaži mladých vedeckých pracovníkov SAV do 35 r. za II. oddelenie vied.

Iná pedagogická činnosť

Ing. Tomáš Bertók, PhD.

Vedenie semestrálneho projektu I (1. roč. Ing. štúdia, Bc. Simona Adamusová, Ústav biochémie a mikrobiológie, FCHPT STU, študijný odbor: biochémia)

Počet hodín: 120

Vedenie SOČ (2. roč., Viktória Hupková, Stredná zdravotnícka škola)

Počet hodín: 50

Ing. Marek Bučko, PhD.

Vedenie semestrálneho projektu I (4. roč. Ing. štúdia, Bc. Magdaléna Neščáková, Ústav biotechnológie, FCHPT STU, študijný odbor: biotechnológia)

Počet hodín: 60

Ing. Michal Híreš, PhD.

Vedenie preddiplomovej práce (1. roč. Mgr. štúdia, Bc. Michal Prieložný, Katedra biochémie, PriF UK, študijný odbor: biochémia)

Počet hodín: 96

RNDr. Eduard Jáné, PhD.

Vedenie semestrálneho projektu I (1. roč. Ing. štúdia, Bc. Anna Forgáčová, Ústav biochémie a mikrobiológie, FCHPT STU, študijný odbor: biochémia)

Počet hodín: 60

Ing. Jaroslav Katrlík, PhD.

Vedenie preddiplomovej práce (1. roč. Mgr. štúdia, Bc. Michaela Méryová, Katedra biotechnológií, Fakulta prírodných vied UCM, študijný odbor: biotechnológia)

Počet hodín: 120

RNDr. Karin Kollárová, PhD.

Vedenie preddiplomovej a diplomovej odbornej praxe (1. roč. Mgr. štúdia, 2. roč. Mgr. štúdia, Katedra fyziológie rastlín, PriF UK, študijný odbor: biológia, študijný program: biológia)

Počet hodín: 388

Ing. Filip Květoň

Konzultant diplomovej práce (5. roč. Ing. štúdia, Bc. Anna Blšáková, Fakulta chemickej a potravinárskej technológie STU, študijný odbor: biotechnológia)

Počet hodín: 120

Konzultant semestrálnej práce (1. roč. Mgr. štúdia, Bc. Nikola Chreneková, PriF UK, odbor: biochémia)

Počet hodín: 96

RNDr. Desana Lišková, PhD.

Vedenie preddiplomovej a diplomovej odbornej praxe (2. roč. Mgr. štúdia, Katedra fyziológie rastlín, PriF UK, študijný odbor: biológia, študijný program: fyziológia rastlín)

Počet hodín: 160

RNDr. Lenka Lorencová, PhD.

Vedenie SOČ (2. roč., Viktória Hupková, Stredná zdravotnícka škola)

Počet hodín: 50

Vedenie preddiplomovej praxe (1. roč. Ing. štúdia, Bc. Lucia Parráková, Ústav prírodných a syntetických polymérov, FCHPT STU)

Počet hodín: 140

Mgr. Zuzana Vatehová, PhD.

Vedenie preddiplomovej a diplomovej odbornej praxe 2 (2. roč. Mgr. štúdia, PriF UK, Katedra fyziológie rastlín, študijný odbor: biológia, študijný program: fyziológia rastlín)

Počet hodín: 160

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

45. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 64 účastníkov, 15.05.-18.05.2018

Vedecký program konferencie bol rozdelený do piatich sekcií: Yeast Diversity and Interactions, Medical Mycology, Molecular and Cell Biology, Yeast Biotechnology and Community Resources (Single cell analysis in yeast research). Na konferencii odznelo 23 prednášok, z ktorých 7 bolo vyžiadaných a hradených Komisiou pre kvasinky. Úvodnú prednášku, venovanú pamiatke zakladateľke konferencií o kvasinkách A. Kockovej-Kratochvílovej, s názvom „Telomere maintenance with and without telomerase in the budding yeast *Naumovozyma castelli*“, predniesla Dr. Marita Cohn (Švédsko). Okrem prednášok bolo prezentovaných 28 plagátových vývesiek a v rámci sekcie „Poster highlights“ odznelo 13 krátkych prezentácií, prednesených mladými vedeckými pracovníkmi a doktorandmi.

Počet účastníkov: 64, z toho 27 zahraničných (z Belgicka, Českej republiky, Francúzska, Maďarska, Nemecka, Nórska, Poľska, Rakúska, Švajčiarska, Švédska, Talianska). Z podujatia bol vydaný zborník (Program and Abstracts, 45th Annual Conference on Yeasts, ISSN 1336-4839).

INSTRUCT-ULTRA "2nd Structural Biology Meeting", Bratislava, Slovakia, Hotel Tatra, 40 účastníkov, 15.11.-16.11.2018

Vedecký program sympózia bol zameraný na analýzu štruktúry biomolekúl, experimentálne (najmä vysokorozlíšená NMR a X-ray spektroskopia) a teoretické metódy (molekulová dynamika, DFT). Najnovšie poznatky v týchto oblastiach boli prezentované formou prednášok (17). Počet účastníkov: 40 (SR, ČR a Taliansko). Z podujatia bol vydaný Book of Abstracts (ISBN: 978-80-971156-6-1).

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

46th Annual Conference on Yeasts/46. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, 07.05.-10.05.2019, (Hana Dudášová, 02/ 59410262, chemhadu@savba.sk)

INSTRUCT-ULTRA 3rd Structural biology meeting/3. Konferencia INSTRUCT-ULTRA o štruktúre biomolekúl, Bratislava, Slovensko, 07.11.-08.11.2019, (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
Breierová Emília	0	1	0
Dudášová Hana	0	1	0
Guthová Jana	0	1	0
Hirsch Ján	1	0	0
Hricovíni Miloš	2	0	1
Petruš Ladislav	1	0	0
Vadkertiová Renáta	1	0	0
Spolu	5	3	1

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.

Československá spoločnosť mikrobiologická (funkcia: člen výboru Komisie pre kvasinky)
International Academy of Wood Science (funkcia: volený člen - Fellow of IAWS)

Ing. Emília Breierová, PhD.

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

Ing. Hana Dudášová, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

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. Ján Hirsch, DrSc.

American Chemical Society (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

American Chemical Society (funkcia: člen)

European Carbohydrate Organization (funkcia: národný reprezentant)
International Carbohydrate Organization (funkcia: národný reprezentant)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)
Management Committee CA COST Action CA16113 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Miroslav Koóš, DrSc.

International Society of Heterocyclic Chemistry (funkcia: člen)

RNDr. Desana Lišková, PhD.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
International Association of Plant Tissue Cultures - Biotechnology (IAPTC-B) (funkcia: člen)

prof. RNDr. Alexander Lux, CSc.

Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
Japanese Society for Plant Roots (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Management Committee FPS COST Action FP1306 (funkcia: národný zástupca)
Management Committee FPS COST Action CA17128 (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)
Management Committee FPS COST Action CM1407 (funkcia: národný zástupca)

RNDr. Mária Matulová, DrSc.

American Chemical Society (funkcia: člen)

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. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)
 Bioelectrochemical Society (funkcia: člen)

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: člen Komisie pre kvasinky)

Zbierka kultúr kvasiniek (CCY)

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

Chemický ústav SAV

Instruct-ERIC (European Research Infrastructure Consortium) (funkcia: člen)

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	H2020-FET-Open RIA 2018	1
	H2020-ICT-07-2018	6
	H2020-MSCA-RISE-2018	8
	REPRISE PRIN 2017	2
Petruš Ladislav	COST	1
	FWF (Austrian Science Fund)	1

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

Okrem participácie na spoločných vedeckých projektoch umožňuje MVTs pracovníkom ústavu najmä dofinancovanie projektov 7. RP a iných 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 získali 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 mohli zúčastniť významných zahraničných vedeckých podujatí (konferencie, semináre, workshopy) a nadviazať nové kontakty a spolupráce. Viacerým doktorandom umožnila MVTs stáž na zahraničných pracoviskách.

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. Vedná politika

Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria obsah 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 vypracováaniu 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 a iných fondoch a nadáciách na podporu vedeckého výskumu. V rokoch 2008–2014 pribudla ešte významná účasť na nových výzvach OP ŠF OPVaV 2.1. a 4.1. a v roku 2014 aj na výzvach v programe HORIZONT 2020. 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 mimobratisklavské 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 zapojil aj do výziev vyhlásených v roku 2018 (2 projekty ako žiadateľ, 2 projekty ako partner).

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. 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 správcovanej 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 okolo 20–25 doktorandov, pričom každoročne sa vyhlasujú prijímacie pohovory na ca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza (v roku 2018 mal ústav 1 držiteľa tohoto štipendia). Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov CHÚ SAV. V rámci novej schémy podpory prijímania mladých postdoktorandov v SAV (prijatých do zamestnania do jedného roka od ukončenia PhD štúdia) získal ústav v roku 2018 finančnú podporu pre dvoch prijatých postdoktorandov v roku 2017. V roku 2018 ústav zamestnal 6 mladých postdoktorandov (do jedného roka od ukončenia PhD štúdia) a požiadal pre nich o uvedenú finančnú podporu. V rámci programu SASPRO (First Call 2014) pôsobil na ústave jeden postdoktorand (nastúpil v roku 2015). 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, ...).

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce: Neformálna spolupráca - Katedra bunkovej a molekulárnej biológie liečiv

Začiatok spolupráce: 2012

Zameranie: Kultivácia a analýzy vybraných liečivých rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a vedenie 1 diplomovej práce.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce: Riešenie spoločného projektu - Katedra fyzikálnej chémie liečiv

Začiatok spolupráce: 2016

Zameranie: Štúdium lektínových biočipov a biosenzorov.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia v tlači.

Názov univerzity/vysokej školy a fakulty: Jesseniova lekárska fakulta UK v Martine

Druh spolupráce: Riešenie spoločných projektov - Ústav farmakológie

Začiatok spolupráce: 2008

Zameranie: Štúdium farmakodynamických vlastností biopolymérov izolovaných z liečivých rastlín a mikrorias.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 4 prezentácie na medzinárodných konferenciách; podaný spoločný projekt APVV.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce: Neformálna spolupráca - II. detská klinika LF UK a DFNSP v Bratislave, Oddelenie laboratórnej medicíny, Centrum dedičných metabolických porúch

Začiatok spolupráce: 2010

Zameranie: Biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.

Zhodnotenie: Diagnostika zriedkavých dedičných metabolických ochorení analýzou moču detských pacientov. Tri prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce: Neformálna spolupráca - Imunologický ústav

Začiatok spolupráce: 2009

Zameranie: Štúdium imunologického zápalu.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie a odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce: Neformálna spolupráca - Univerzitná nemocnica, Bratislava, Nemocnica Staré Mesto, Oddelenie klinickej imunológie a alergológie

Začiatok spolupráce: 2007

Zameranie: Diferenciálna diagnostika vaginálnych kandidóz u atopických pacientov.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Neformálna spolupráca - Katedra mikrobiológie a virológie

Začiatok spolupráce: 2007

Zameranie: Úloha CR3-RP v adherencii kvasinky *Candida albicans* a jeho imunologické vlastnosti.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Neformálna spolupráca - Katedra organickej chémie

Začiatok spolupráce: 2008

Zameranie: Syntéza inhibítorov glykozytransferáz.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Riešenie spoločného projektu V4-Korea Joint Research Program - Katedra analytickej chémie

Začiatok spolupráce: 2017

Zameranie: Mikroelektroforetické prostriedky pre bioanalýzu.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Riešenie spoločných projektov - Katedra fyziológie rastlín

Začiatok spolupráce: 2007

Zameranie: Využitie rastlín pre dekontamináciu životného prostredia od toxických kovov a obohatenie poľnohospodárskych rastlín o dôležité minerálne látky a štúdium biologickej aktivity galaktoglukománových oligosacharidov vo vývinových procesoch a ochrane rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia, vedenie 3 diplomových prác, oponovanie 1 bakalárskej a 1 diplomovej práce.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Spoločné pracovisko

Začiatok spolupráce: 1995

Zameranie: Združené laboratórium Fourier Transform Infrared Spectroscopy.

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

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce: Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR).

Zhodnotenie: Vid' informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Druh spolupráce: Neformálna spolupráca - Katedra organickej chémie

Začiatok spolupráce: 2017

Zameranie: Štúdium inhibičných vlastností potenciálnych inhibítorov manozidáz.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia v tlači.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Druh spolupráce: Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR).

Zhodnotenie: Vid' informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM

Druh spolupráce: Neformálna spolupráca - Katedra biotechnológií

Začiatok spolupráce: 2016

Zameranie: a) Štúdium lektínových biočipov a biosenzorov; b) Štúdium enzýmových glykozylácií.

Zhodnotenie: a) Výsledkom spolupráce je 1 spoločná publikácia v tlači, školenie 1 doktorandky a vedenie 2 diplomových prác; b) 1 príspevok na vedeckej konferencii.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM

Druh spolupráce: Neformálna spolupráca - Katedra biotechnológií

Začiatok spolupráce: 2011

Zameranie: a) Výskum biologicky aktívnych/funkčných necelulóзовých polysacharidov izolovaných z rastlín a agro-industriálnych a lesných odpadov.

Zhodnotenie: Výsledkom spolupráce je príprava špecifických oligosacharidov.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UCM

Druh spolupráce: Podpísaná dohoda o spolupráci - Katedra chémie

Začiatok spolupráce: 2004

Zameranie: Riešenie vedecko-výskumných úloh, výchova absolventov a doktorandov a využívanie modernej prístrojovej techniky.

Zhodnotenie: Konzultácie a oponentúry Bc. a diplomových prác.

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

Druh spolupráce: Neformálna spolupráca - Ústav biochémie a mikrobiológie

Začiatok spolupráce: 2010

Zameranie: Imunobiologická aktivita látok pre biomedicínske aplikácie.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a vedenie diplomovej práce.

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

Druh spolupráce: Neformálna spolupráca - Ústav biotechnológie

Začiatok spolupráce: 2006

Zameranie: Štúdium enzýmových transglykozylačných reakcií a chemoselektívnych enzýmových acylácií a deacylácií.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie a pedagogické aktivity.

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

Druh spolupráce: Neformálna spolupráca - Ústav biotechnológie

Začiatok spolupráce: 2016

Zameranie: Štúdium lektínových biočipov a biosenzorov.

Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce.

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

Druh spolupráce: Neformálna spolupráca - Ústav fyzikálnej chémie a chemickej fyziky, Oddelenie fyzikálnej chémie

Začiatok spolupráce: 2017

Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami.

Zhodnotenie: Výsledkom spolupráce je 1 výjdená a 1 pripravovaná publikácia.

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

Druh spolupráce: Neformálna spolupráca - Ústav chemického a environmentálneho inžinierstva, Oddelenie chemického a biochemického inžinierstva

Začiatok spolupráce: 2016

Zameranie: Štúdium enzýmových transglykozylačných reakcií.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie a pedagogické aktivity.

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

Druh spolupráce: Riešenie spoločného projektu (COST–Eurocaroten) - Ústav biotechnológie

Začiatok spolupráce: 2016**Zameranie:** Skúmanie a stimulácia pigmentov produkovaných kvasinkami.**Zhodnotenie:** Výsledkom spolupráce je 1 spoločná publikácia.**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU**Druh spolupráce:** Riešenie spoločných projektov - Ústav biochémie a mikrobiológie**Začiatok spolupráce:** 2010**Zameranie:** a) Analýza nutraceutík a polysacharidových zložiek cereálií; b) Štúdium štruktúry a vlastností biologicky aktívnych sacharidov; c) Štúdium lektínových biočipov a biosenzorov.**Zhodnotenie:** Výsledkom spolupráce je 1 pripravovaná publikácia a vedenie 1 diplomovej práce.**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU**Druh spolupráce:** Riešenie spoločných projektov VEGA a APVV - Ústav biotechnológie**Začiatok spolupráce:** 2006**Zameranie:** Techniky imobilizácie pre vývoj viabilných celobunkových biokatalyzátorov oxidačno-redukčných reakcií.**Zhodnotenie:** Výsledkom spolupráce je vedenie semestrálneho projektu a pripravovaná spoločná publikácia.**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU**Druh spolupráce:** Spoločné pracovisko**Začiatok spolupráce:** 1995**Zameranie:** Združené laboratórium Fourier Transform Infrared Spectroscopy.**Zhodnotenie:** Združené laboratórium Fourier Transform Infrared Spectroscopy, založené v roku 1995, je spoločným pracoviskom Ústavu anorganickej chémie SAV, Chemického ústavu SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Spoločné laboratórium FTIR spektroskopie v priestoroch CHÚ SAV je vybavené infračerveným spektrometrom NICOLET 6700, ktorý bol zakúpený v roku 2008 z prostriedkov projektu MACHINA a slúži pre potreby výskumu v rámci uvedených inštitúcií, na pedagogické účely ako aj základné servisné merania. V roku 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 roku 2012 disperzný DXR Raman mikroskop a v roku 2015 bolo pracovisko vybavené špičkovými prístrojmi: FT-IR Mikroskop Nicolet iN10 a FT-IR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FT-IR Raman (Thermo Fisher Scientific, Inc.) z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008 (379 tis. €). Výstupy v roku 2018: 5 publikácií a 5 príspevkov na vedeckých konferenciách.**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU**Druh spolupráce:** Spoločné pracovisko v rámci Národného centra NMR**Začiatok spolupráce:** 2007**Zameranie:** Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR).**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) 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 elektrotechniky a informatiky TUKE, Košice

Druh spolupráce: Spoločné pracovisko v rámci Národného centra NMR

Začiatok spolupráce: 2007

Zameranie: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR).

Zhodnotenie: Vid' informácie uvedené pre Spoločné pracovisko v rámci Národného centra NMR.

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

Druh spolupráce: Spoločné pracovisko

Začiatok spolupráce: 2009

Zameranie: Kvalita surovín a potravín.

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: Univerzita T. Bati, Zlín, ČR

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Ústav inžénýrství ochrany životního prostředí

Začiatok spolupráce: 2018

Zameranie: Štúdium polysacharidových kompozitných vrstiev.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: Vysoká škola chemicko-technologická, Praha, ČR

Druh spolupráce: Neformálna spolupráca - Fakulta potravinářské a biochemické technologie, Ústav chemie přírodních látek

Začiatok spolupráce: 2016

Zameranie: Povrchová modifikácia nanočastíc a ich charakterizácia.

Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie a 1 prezentácia na zahraničnej konferencii.

Názov univerzity/vysokej školy a fakulty: Vysoká škola chemicko-technologická, Praha, ČR

Druh spolupráce: Neformálna spolupráca - Fakulta potravinářské a biochemické technologie, Ústav sacharidů a cereálií

Začiatok spolupráce: 2011

Zameranie: Štruktúra a biologická aktivita rastlinných biopolymérov

Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno, ČR

Druh spolupráce: Neformálna spolupráca - Fakulta chemická, Ústav chemie potravin a biotechnologií

Začiatok spolupráce: 2010

Zameranie: a) Mikrobiálna produkcia priemyselne dôležitých enzýmov na odpadoch z

potravinárskych výrob; b) Identifikácia kvasiniek molekulárno-biologickými metódami a hmotnostnou spektrometriou.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia, úspešná obhajoba 1 bakalárskej práce a 3 spoločné príspevky na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Vysoké učení technické, Brno, ČR

Druh spolupráce: Neformálna spolupráca - Fakulta chemická, Ústav chemie potravín a biotechnológií, Centrum materiálového výzkumu

Začiatok spolupráce: 2006

Zameranie: Monitoring pigmentotvorných a tukotvorných kvasiniek.

Zhodnotenie: Pomocou Ramanovej spektroskopie sa zisťoval vplyv kultivačných podmienok (zloženie živnej pôdy, teplota) na tvorbu pigmentov a lipidov u kvasinkového druhu *Metschnikowia pulcherrima*. Výsledkom sú 2 prezentácie na vedeckej konferencii.

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave

Druh spolupráce: Neformálna spolupráca - Vedeckovýskumná základňa SZU, Oddelenie mikrobiológie

Začiatok spolupráce: 2018

Zameranie: Štúdium a identifikácia baktérií *Vibrio cholerae*.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave

Druh spolupráce: Neformálna spolupráca - Vedeckovýskumná základňa SZU, Oddelenie toxikológie

Začiatok spolupráce: 2010

Zameranie: Štúdium imunobiologických vlastností polysacharidových konjugátov *in vivo*.

Zhodnotenie: Výkon postupov a zisk dát a materiálu.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta Palackého univerzity, Olomouc, ČR

Druh spolupráce: Neformálna spolupráca - Katedra organické chemie

Začiatok spolupráce: 2010

Zameranie: Syntéza a cytotoxická aktivita sacharidových derivátov.

Zhodnotenie: Výsledkom spolupráce je 1 uverejnená a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Přírodovědecká fakulta, Masarykova univerzita, Brno, ČR

Druh spolupráce: Neformálna spolupráca - Národní centrum pro výzkum biomolekul

Začiatok spolupráce: 2011

Zameranie: Štúdium katalytického mechanizmu glykozytransferáz.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 3 prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Chalmers University of Technology, Göteborg, Sweden

Druh spolupráce: Neformálna spolupráca - Department of Chemical and Biological Engineering

Začiatok spolupráce: 1998

Zameranie: Stanovenie štruktúry sacharidových derivátov X-ray technikami.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Wroclaw University of Technology, Poland

Druh spolupráce: Riešenie spoločných projektov - Division of Medicinal Chemistry and Microbiology, Chemistry Department

Začiatok spolupráce: 2010

Zameranie: Štruktúra, biologická aktivita a vlastnosti fenolických glykokonjugátov z liečivých rastlín.

Zhodnotenie: Výsledkom spolupráce sú 2 spoločné publikácie v tlači a podaný bilaterálny SR-PL projekt v rámci výzvy APVV.

Názov univerzity/vysokej školy a fakulty: The University of Burdwan, West Bengal, India

Druh spolupráce: Neformálna spolupráca - Department of Chemistry

Začiatok spolupráce: 2009

Zameranie: Polysacharidy a glykokonjugáty rias/mikrorias a liečivých rastlín.

Zhodnotenie: Konzultácie k chemickej analýze zložitých štruktúr biopolymérov.

Názov univerzity/vysokej školy a fakulty: University of Adelaide, Glen Osmond, Australia

Druh spolupráce: Neformálna spolupráca - School of Agriculture, Food and Wine, Australian Centre for Plant Functional Genomics

Začiatok spolupráce: 1994

Zameranie: Štúdium bunkových stien rastlín.

Zhodnotenie: Výsledkom spolupráce je 1 odoslaná a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Universität für Bodenkultur Wien, Institut für Chemie, Österreich

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2006

Zameranie: Štruktúrna analýza N- a O-viazaných oligosacharidov; MS/MS analýza glykokonjugátov; štruktúra glykopeptidov; definícia glykoprotéomu krvného séra v diagnostike.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a krátkodobé študijné pobyty.

Názov univerzity/vysokej školy a fakulty: Botanický ústav AV ČR, Průhonice, ČR

Druh spolupráce): Neformálna spolupráca

Začiatok spolupráce: 2009

Zameranie: Výskum nových sladkovodných rias s významnou produkciou extracelulárnych polysacharidov.

Zhodnotenie: Výsledkom spolupráce sú 3 spoločné publikácie.

Názov univerzity/vysokej školy a fakulty: University of Belgrade, Belgrade, Serbia

Druh spolupráce: Bilaterálny projekt APVV-SK-SRB - Institute for Applied Nuclear Energy (INEP)

Začiatok spolupráce: 2012

Zameranie: Analýza glykánových biomarkerov ako nástroj pre biomedicínsky výskum, sledovanie a diagnostiku nádorových ochorení.

Zhodnotenie: Výsledkom sú 2 spoločné publikácie, jedna akceptovaná publikácia a 1 príspevok na vedeckej konferencii.

Názov univerzity/vysokej školy a fakulty: Université Blaise Pascal, Aubiere, Francúzsko

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2013

Zameranie: NMR štúdium štruktúry biosurfaktantov produkovaných baktériami izolovanými z oblačnej vody; analýza polysacharidov.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Ege University, Engineering Faculty, Izmir, Turkey

Druh spolupráce: Podpísaná dohoda o spolupráci - Food Engineering Department

Začiatok spolupráce: 2014

Zameranie: Izolácia a charakterizácia polysacharidov z agro-industriálnych a lesných odpadov.

Zhodnotenie: Výsledkom spolupráce je podaný spoločný bilaterálny projekt.

Názov univerzity/vysokej školy a fakulty: N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, Russia

Druh spolupráce: Neformálna spolupráca - Laboratory of Glycoconjugate Chemistry

Začiatok spolupráce: 2006

Zameranie: Výskum imunomodulačných vlastností synteticky pripravených oligosacharidov *in vivo* a *ex vivo*.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: University of Debrecen, Faculty of Science and Technology, Institute of Chemistry, Debrecen, Hungary

Druh spolupráce): Neformálna spolupráca - Department of Organic Chemistry

Začiatok spolupráce: 2012

Zameranie: Syntéza glykozylačných činidiel a ich využitie na glykozyláciu heterocyklov.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Institute of Physiology and Fundamental Medicine, Siberian Branch of RAMS, Novosibirsk, Russia

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2010

Zameranie: Štúdium hypolipidemického účinku manánu *Candida albicans* na indukovanú hyperlipidémiu u myší.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: The Catholic University of Korea, Bucheon, Republic of Korea

Druh spolupráce: Neformálna spolupráca - Department of Biotechnology

Začiatok spolupráce: 2013

Zameranie: Štruktúra a biologická aktivita polysacharidov z rias.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: Faculty of Biotechnology and Food Sciences, Lodz University of Technology, Poland

Druh spolupráce): Neformálna spolupráca - Institute of Fermentation Technology and Microbiology

Začiatok spolupráce: 2016

Zameranie: *Metchnikowia pulcherrima* - zdroj lipidov a pulcherimínu.

Zhodnotenie: Štúdium biodiverzity a vlastností kmeňov kvasiniek *Metchnikowia pulcherrima* a ich úlohy v ekosystéme. Výsledky boli prezentované na vedeckej konferencii a pripravuje sa spoločná publikácia.

Názov univerzity/vysokej školy a fakulty: CEITEC Masarykova univerzita, Brno, ČR

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2015

Zameranie: Štúdium neväzbových interakcií sacharidov a reakčného mechanizmu glykozyltransferáz použitím výpočtových metód.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 3 prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Rikkyo (St. Paul's) University, Tokyo, Japan

Druh spolupráce: Podpísaná dohoda o spolupráci - College of Science, Department of Chemistry

Začiatok spolupráce: 2015

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 sú 2 spoločné publikácie, 1 seminárna prednáška, a 1 postdoktorandský pobyt v Japonsku.

Názov univerzity/vysokej školy a fakulty: Celal Bayar University, Faculty of Engineering, Manisa, Turkey

Druh spolupráce: Podpísaná dohoda o spolupráci - Food Engineering Department

Začiatok spolupráce: 2016

Zameranie: Valorizácia potravinových odpadov.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland

Druh spolupráce: Neformálna spolupráca - Department of Microstructure and Mechanics of Biomaterials

Začiatok spolupráce: 2014

Zameranie: Nanoštruktúra biopolymérov z mikrorias.

Zhodnotenie: Spolupráca pri vyhodnocovaní experimentálnych výsledkov.

Názov univerzity/vysokej školy a fakulty: Univerzita Karlova a Všeobecní fakultní nemocnice, Praha, ČR

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2015

Zameranie: Dedičné metabolické ochorenia/GSD/ a štruktúrna analýza krvného ApoCIII/identifikácia O-viazaných oligosacharidov.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia.

Názov univerzity/vysokej školy a fakulty: Lékařská fakulta Palackého univerzity, Olomouc, ČR

Druh spolupráce: Neformálna spolupráca - Ústav molekulární a translační medicíny

Začiatok spolupráce: 2014

Zameranie: Testovanie cytotoxickéj a antimikrobiálnej aktivity sacharidových derivátov.

Zhodnotenie: Výsledkom spolupráce je 1 vyjdená a 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Uppsala University, Department of Earth Sciences, Uppsala, Sweden

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca – vedy o Zemi

Začiatok spolupráce: 2015

Zameranie: Analýza geologických vzoriek pomocou metód Ramanovej mikroskopie.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Adam Mickiewicz University, Faculty of Chemistry, Poznań, Poland

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2016

Zameranie: Aplikácie ab initio metód kvantovej chémie na charakterizáciu nekovalentných interakcií (najmä SAPT).

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Konkuk University, Seoul, Republic of Korea
Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločného projektu - Department of Chemistry

Začiatok spolupráce: 2016

Zameranie: Nanoštrukturové hybridné organicko-anorganické solárne články.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 2 prezentácie na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Institute for Macromolecular Studies (ISMAL-CNR), Milan, Italy

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2000

Zameranie: SEC-MALS analýzy polysacharidov.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Ústav makromolekulární chemie, AV ČR, Praha, ČR

Druh spolupráce: Neformálna spolupráca

Začiatok spolupráce: 2011

Zameranie: Výskum mechanických vlastností filmových polysacharidových kompozitov.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Národné poľnohospodárske a potravinárske centrum, Výskumný ústav živočíšnej výroby Nitra

Druh spolupráce: Neformálna spolupráca - Ústav včelárstva Liptovský Hrádok

Začiatok spolupráce: 2005

Zameranie: Štúdium látok vo včelej larválnej kašičke s antipatogénnym účinkom voči niektorým larválnym patogénom.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Onkologický ústav sv. Alžbety, Bratislava

Druh spolupráce: Neformálna spolupráca - Oddelenie klinickej imunológie a alergológie

Začiatok spolupráce: 2004

Zameranie: Diferenciálna diagnostika vaginálnych kandidóz u atopických pacientov.

Zhodnotenie: Výsledkom spolupráce je príprava spoločnej publikácie.

Názov univerzity/vysokej školy a fakulty: Medzinárodné laserové centrum, Bratislava

Druh spolupráce: Riešenie spoločného projektu APVV

Začiatok spolupráce: 2006

Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov a modifikovaných nanočastíc.

Zhodnotenie: Výsledkom spolupráce je 1 publikácia a 2 príspevky na vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Vienna University of Technology, Vienna, Austria

Druh spolupráce: Neformálna spolupráca - Institute of Applied Synthetic Chemistry

Začiatok spolupráce: 2006

Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Ústav přístrojové techniky, AV ČR, Brno, ČR

Druh spolupráce: Neformálna spolupráca - Oddělení elektronové mikroskopie

Začiatok spolupráce: 2014

Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: Friedrich Schiller University of Jena, Germany

Druh spolupráce: Neformálna spolupráca - Institute of Organic Chemistry and Macromolecular Chemistry, Centre of Excellence for Polysaccharide Research

Začiatok spolupráce: 2013

Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov.

Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe.

Názov univerzity/vysokej školy a fakulty: Durham University, Durham, UK

Druh spolupráce: Neformálna spolupráca - Department of Biosciences

Začiatok spolupráce: 2007

Zameranie: Štúdium úlohy Ire1 proteínu v ER *Sacharomyces cerevisiae*.

Zhodnotenie: Výsledkom spolupráce sú odborné konzultácie.

Názov univerzity/vysokej školy a fakulty: La Jolla Institute for Allergy and Immunology, San Diego, USA

Druh spolupráce: Neformálna spolupráca - Division of Cell Biology

Začiatok spolupráce: 2012

Zameranie: Štúdium vplyvu chemických modifikácií antigénu v imunitnej odpovedi NKT buniek.

Zhodnotenie: Výsledkom spolupráce je pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: Fyzikální ústav, AV ČR, Praha, ČR

Druh spolupráce: Riešenie spoločného projektu

Začiatok spolupráce: 2016

Zameranie: Nanoštrukturové hybridné organicko-anorganické solárne články.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia a 3 prezentácie na zahraničných vedeckých konferenciách.

Názov univerzity/vysokej školy a fakulty: Mathematisch-Naturwissenschaftlich-Technische Fakultät, Universität Augsburg, Nemecko

Druh spolupráce: Neformálna spolupráca - Institut für Physik

Začiatok spolupráce: 2018

Zameranie: Stanovenie štruktúry sacharidových derivátov ^{13}C CPMAS NMR technikami.

Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov univerzity/vysokej školy a fakulty: National Cheng Kung University Tainan, Taiwan

Druh spolupráce: Neformálna spolupráca - Department of Medical Laboratory Science and Biotechnology

Začiatok spolupráce: 2018

Zameranie: Štruktúrna analýza extracelulárnych biopolymérov.

Zhodnotenie: Prednáška o zameraní CHÚ SAV a prezentácia výsledkov štúdia štruktúrnych a fyzikálno-chemických vlastností a biologických účinkov extracelulárnych biopolymérov produkovaných mikroriasami. Spolupráca pri využití moderných metód chemických analýz.

Názov univerzity/vysokej školy a fakulty: Qatar University, Doha, Qatar

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca - Centre for Advanced Materials

Začiatok spolupráce: 2016

Zameranie: a) Štúdium glykánových a lektínových biosenzorov; b) štúdium polysacharidových kompozitných vrstiev.

Zhodnotenie: Výsledkom spolupráce je 1 kapitola v knihe a 5 spoločných publikácií.

Názov univerzity/vysokej školy a fakulty: Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2015

Zameranie: Štúdium polysacharidových kompozitných vrstiev.

Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

Zadávateľ, odberateľ, zmluvný partner: Futbalový klub Spartak Trnava, Trnava

Názov aplikácie/objekt výskumu: Sanácia trávnik na futbalovom štadióne.

Začiatok spolupráce: 2018

Stručný opis aplikácie/výsledku: Na futbalovom štadióne Spartaka Trnava bol vykonaný mikrobiologický rozbor príčin vysychania trávnik. Zistilo sa, že odumieranie trávnik bolo spôsobené infekciou mikroskopickými hubami rodov *Sclerotinia*, *Mucor* a *Rhizobium*.

Zhodnotenie: Niekoľkonásobná aplikácia preparátu Azoter F (producent: firma Azoter Trading, s.r.o. v Bratislave na základe licencie, ktorú jej predal Chemický ústav SAV; SK patent č. 288023; pôvodca: doc. Ing. V. Farkaš, DrSc. et al.) obsahujúceho živé konídie licencovaného kmeňa huby *Trichoderma atroviride* I2 viedla k potlačeniu fungálnej infekcie a k úplnej sanácii trávnik v priebehu dvoch mesiacov.

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

Detská fakultná nemocnica s poliklinikou, II. Detská klinika - Diagnostické centrum dedičných metabolických porúch, Bratislava

Spoluúčasť NMR laboratória CHÚ SAV v diagnostike niektorých zriedkavých dedičných porúch metabolizmu pomocou cielenej NMR metabolomickej analýzy telových tekutín (moč, sérum, plazma) detských pacientov. V spolupráci s Národným ústavom detských chorôb, Oddelením laboratórnej medicíny v Bratislave sa pokračovalo v cielenej diagnostike zriedkavých dedičných metabolických ochorení analýzou moču detských pacientov zo Slovenska.

Fakultná nemocnica Trenčín, Onkologické oddelenie, Bratislava

Predúprava a meranie vzoriek sér pacientov s onkologickým ochorením (rakovina hrubého čreva, prsníka a prostaty) pred a po liečbe, resp. zákroku s cieľom identifikovať potenciálne zmeny v glykoproteínových profiloch vybraných proteínov v súvislosti s ochorením.

Nemocnica sv. Michala, a.s., Oddelenie klinickej biochémie a hematológie, Bratislava

Spoločný biomedicínsky výskum v oblasti diagnostiky zriedkavých metabolických ochorení.

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: Axxence Park-Hala 1

Partner(i): Axxence s.r.o., Bratislava

Zameranie: Aplikovaný výskum v oblasti priemyselnej biokatalýzy

Rok založenia: 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. Tieto jednotkové operácie sú veľmi náročné vzhľadom na extrémne nízke pracovné tlaky a tepelnú citlivosť spracovávaných surovín. Riešenie spoločných projektov.

Názov pracoviska: Saneca-Infraštruktúra-HL

Partner(i): Saneca Pharmaceuticals, a.s.

Zameranie: Aplikovaný výskum v oblasti biomedicíny

Rok založenia: 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 lokalizovaného v priestoroch spoločnosti Saneca (Hlohovec), ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie, izolácie a finálnej purifikácie dôležitých prírodných látok resp. ich prekursorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko vybavené prístrojovou technikou v hodnote 9.86 mil. €. Prístrojovú techniku v súčasnosti využívajú všetky pracoviská združené v klastri Omics4Health. Pripravujú sa ďalšie spoločné projekty do aktuálnych výziev OP ŠF.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: Izolácia neprístupných štruktúr acetylxylnu a enzýmy ich hydrolýzy (Isolation of recalcitrant acetylxyln structures and enzymes of their hydrolysis) (Zodpovedný riešiteľ: RNDr. Peter Biely, DrSc.)

Partner(i): Novozymes A/S, Bagsvaerd, Denmark

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2017

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): trvá

Objem získaných prostriedkov v bežnom roku (€): 10000

Stručný opis výstupu/výsledku: Študovala sa substrátová špecificita dvoch xylanáz zaradených do podrodín 21 a 34 rodiny GH5. Na rozdiel od obvyklých xylanáz z rodín GH10 a GH11, oba enzýmy prakticky nehydrolyzovali glukurónoxylán tvrdého dreva. Arabinoxylán obilnín bol však oboma enzýmami dobre hydrolyzovaný, pričom sa vytvárali iné produkty ako pri pôsobení obvyklých xylanáz (TLC). V súlade so štruktúrou arabinoxylánu nebol tento polysacharid hydrolyzovaný glukurónoxylanázami z rodiny GH30. Kukuričný glukurónoarabinoxylán bol významne štiepený oboma xylanázami z rodiny GH5. Oba enzýmy účinne štiepili len tie interné monosubstituované xylozylové zvyšky, ktoré obsahovali postranný reťazec alfa-L-arabinofuranózy práve v polohe 3.

Zhodnotenie: Riešenie cieľov kontraktu úspešne pokračuje. Dosiahnuté výsledky sa sumarizujú do spoločných publikácií.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Testovanie softvéru Mass Frontier 8.0 k interpretácii fragmentácie organických zlúčenín a vyhodnocovaniu chromatografov. Testovanie softvéru TreeRobot na získavanie HR hmotnostných

spektier a budovanie databázy hmotnostných spektier. Odberateľ: HighChem s.r.o., Bratislava

Poradenská činnosť v analýze sladidiel používaných pri výrobe liehovín. Odberateľ: St. Nicolaus, a.s., Liptovský Mikuláš

Poradenská a expertízna činnosť v súvislosti s využívaním prístroja Iónová mobilita MS; separácia a identifikácia vzoriek organických látok. Odberateľ: MaSa Tech, s.r.o., Bratislava

Poradenská činnosť v súvislosti s predanou licenciou na využívanie produkčného kmeňa a technológie na prípravu spórových inokúl huby *Trichoderma*, ktoré sú predmetom SK patentu č. 288023 (PP 5108-2008), v prevádzke Biozávod, Petrova Ves. Odberateľ: Azoter Trading, s.r.o., Bratislava

LC-MS analýza vzoriek. Odberateľ: 1) Saneca Pharmaceuticals a.s., Hlohovec; finančný prínos: 400 €; 2) Prírodovedecká fakulta UK, Bratislava; finančný prínos: 820 €; 3) Fakulta chemickej a potravinárskej technológie STU, Bratislava; finančný prínos: 850 €; 4) MIKROCHEM s.r.o., Pezinok; finančný prínos: 100 €; 5) Slovak MAK s.r.o., Leopoldov; finančný prínos: 5040 €

Analýza vzoriek. Odberateľ: TAU-CHEM, s.r.o., Bratislava; finančný prínos: 220 €

Stanovenie elementárneho zloženia (CHN) vzoriek. Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava; finančný prínos: 520 €

Stanovenie elementárneho zloženia (CHN), NMR a MS analýza vzoriek. Odberateľ: Ústav polymérov SAV, Bratislava; finančný prínos: 3682 €

Chemická a mikrobiologická analýza vzoriek vody. Odberateľ: 1) AH - Slovakia, s.r.o., Bratislava; finančný prínos: 578 €; 2) Welldrilling, s.r.o., Bratislava; finančný prínos: 1163 €; 3) Spoločnosť, s.r.o., Bernolákovo; finančný prínos: 356 €; 4) INTECH SLOVAKIA, s.r.o., finančný prínos: 149 €

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,	Sektorová rada pre potravinárstvo v programe	člen

PhD.	MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	
RNDr. Jaroslav Klaudiny, PhD.	Komisia pre biologickú bezpečnosť a jej zbor expertov pri Ministerstve životného prostredia SR	člen zboru expertov
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v 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 "Národná sústava povolaní III" pri 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, DrSc.	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen
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 samosprávu

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	12	tlač	10	TV	8
rozhlasy	4	internet	21	exkurzie	3
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
45. Výročná konferencia o kvasinkách	medzinárodná	Kongresové centrum SAV, Smolenice	15.05.-18.05.2018	64
INSTRUCT-ULTRA "2nd Structural Biology Meeting"	medzinárodná	Bratislava, Hotel Tatra	15.11.-16.11.2018	40

9.3. Účasť na výstavách

Názov výstavy: AGROKOMPLEX 2018: 45. medzinárodná poľnohospodárska a potravinárska výstava

Miesto konania: Agrokomplex Nitra

Dátum: 16.8.2018

Zhodnotenie účasti: Ústav prezentoval kolekciu tzv. vzácnych sacharidov (nevyskytujúce sa v prírode resp. nevyskytujúce sa v dostatočnom množstve na ich izoláciu z prírodných zdrojov), ktoré produkuje Realizačné oddelenie a ktoré sú pre potreby základného výskumu chémie a biochémie sacharidov ako aj potravinárskeho a farmaceutického priemyslu distribuované do celého sveta. V tejto súvislosti sa nadväzovali kontakty za účelom získania nových komerčných partnerov.

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
Farkaš Pavol	0	1	0
Katrlík Jaroslav	1	0	0
Mastihuba Vladimír	1	0	0
Tkáč Ján	1	0	0
Spolu	3	1	0

9.5. Členstvo v redakčných radách časopisov

RNDr. Marek Baráth, PhD.

Chemical Papers (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. Zdenka Hromádková, PhD.

Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Miroslav Kooš, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)

Chemical Papers (funkcia: člen Editorial Advisory Board)

Molecules (funkcia: člen Editorial Board)

Mgr. Stanislav Kozmon, PhD.

Chemical Papers (funkcia: Associate Editor)

RNDr. Desana Lišková, PhD.

South African Journal of Botany (funkcia: člen Editorial Board)

prof. RNDr. Alexander Lux, CSc.

Plant Root (funkcia: Editor)

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: Associate Editor)

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)
Učená spoločnosť Slovenska (funkcia: emeritný člen)

Ing. Pavol Farkaš, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

doc. Ing. Vladimír Farkaš, DrSc.

Učená spoločnosť Slovenska V (funkcia: emeritný člen)

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)
Učená spoločnosť Slovenska (funkcia: emeritný člen)

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 Jakubčínová

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

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

Ing. Miroslav Košíš, 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)

RNDr. Desana Lišková, 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: člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen Predsedníctva)

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. Vlasta Sasinková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ján Tkáč, DrSc.

Slovenská elektrochemická spoločnosť (funkcia: člen)
 Učená spoločnosť Slovenska (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)
 Učená spoločnosť Slovenska (funkcia: emeritný člen)

RNDr. Iveta Uhliariková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Zuzana Vivodová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Mária Zajičková

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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

V rámci Týždňa vedy a techniky na Slovensku 2018 (TVT 2018) sa konal Deň otvorených dverí CHÚ SAV (6.11.2017; organizátori: Dr. Blahutová, Dr. Lišková, Dr. Vivodová), počas ktorého viacerí pracovníci formou prednášok (Horváthová, Krajčovič, Stratilová) popularizovali svoju vedecko-výskumnú činnosť. Návštevníci mali tiež možnosť prezrieť si vybrané laboratóriá ústavu, kde boli pripravené aj špeciálne popularizačné chemické pokusy (Ing. Květoň, Ing. Blšáková) a prezentácie (Dr. Bertók, Dr. Lorencová, Dr. Híreš, Dr. Jáné, Dr. Hricovíni st., RNDr. Uhliariková, Dr. Dudášová, Ing. Kis, Dr. Kóňa, RNDr. Sasinková). Počet návštevníkov: 120.

V tomto roku (31.5.2018) navštívili CHÚ SAV žiaci Strednej zdravotníckej školy (zameranie: farmaceutický laborant) v Bratislave (spolu 28 žiakov) - ako súčasť 7. ročníka programu "Veda má budúcnosť". Pripravená pre nich bola prezentácia (prednášky a exkurzia v laboratóriách) výskumu z oblasti biotechnológií (Dr. Lorencová, Dr. Holazová, Ing. Květoň).

Ing. P. Farkaš, PhD. zorganizoval 3. ročník exkurzie a work-shopu žiakov Základnej školy Pavla Marceľho v Bratislave na CHÚ SAV. Ôsmaci (počas troch dní sa vystriedalo 58 žiakov) sa dozvedeli o zaujímavom príbehu chémie, princípoch vedy a zoznámili sa s výskumnou činnosťou ústavu, konkrétne s výskumom cukrov, s pohľadom na fungovanie imunitného systému a základných princípoch prípravy vakcín. Školáci si tiež pozreli laboratóriá, kde im pracovníci (Bc. Alföldyová, Dr. L. Paulovičová, Dr. Valáriková) demonštrovali pokusy, na vysvetlenie základných princípov klasickej i modernej chémie. Aktivita sa konala v rámci projektu "Nájdí v sebe vedca".

Mladí pracovníci ústavu sa zapojili aj do projektu Roadshow mladých vedcov po školách Slovenska. V rámci tejto akcie Dr. Krajčovič vyučoval na Gymnáziu L. Sáru a gymnáziu pre mimoriadne nadané deti v Bratislave a súkromnej Základnej škole v Senci a Ing. Květoň vyučoval na gymnáziách v Trenčíne, Dubnici a Novom Meste nad Váhom.

Pracovníci ústavu pokračovali v práci s talentovanými študentmi stredných škôl (Ing. T. Bertók, PhD. a RNDr. L. Lorencová, PhD. - vedenie študentky pri vypracovaní práce SOČ). V tejto súvislosti bolo odprezentovaných viacero popularizačných prednášok na gymnáziách v Bratislave.

Ing. V. Mastihuba, PhD. organizačne zabezpečoval pravidelný (6-krát ročne) cyklus vedecko-popularizačných prednášok "Chemické Horizonty" v rámci aktivít SCHS pri SAV.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25395
z toho	knihy a zviazané periodiká	25395
	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		3
Knižničné jednotky spracované automatizovane		0

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		12
v tom z r. 1	prezenčné výpožičky	10
	absenčné výpožičky	2
v tom z r. 1	odborná literatúra pre dospelých	4
	výpožičky periodík	8
MVS iným knižniciam		2
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

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

Pracovníčky knižnice (2) zabezpečovali okrem iného rozmnožovacie práce na xeroxe, rešerše z literatúry a do systému ARL vkladali publikačné výstupy a citačné ohlasy pracoviska.

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 vo vedeckých kolégiách SAV

Ing. Slavomír Bystrický, DrSc.

- VK SAV pre lekárske vedy (člen)

Ing. Peter Gemeiner, DrSc.

- VK SAV pre chemické vedy (predseda)

Ing. Ján Hirsch, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Jaroslav Klaudiny, PhD.

- VK SAV pre molekulárnu biológiu a genetiku (člen)

Ing. Miroslav Kooš, DrSc.

- VK SAV pre chemické vedy (člen)

RNDr. Desana Lišková, PhD.

- VK SAV pre biologicko-ekologické vedy (člen)

Ing. Igor Tvaroška, DrSc.

- VK SAV pre chemické vedy (člen)

11.4. Členstvo v komisiách SAV

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Miroslav Kooš, DrSc.

- Knižničná rada SAV (člen)
- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (člen)
- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (člen)
- Kontrolná rada areálu SAV (člen)

doc. Ing. Ladislav Petruš, DrSc.

- Komisia SAV pre životné prostredie (podpredseda)

Ing. Ján Tkáč, DrSc.

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

11.5. Členstvo v orgánoch VEGA

Mgr. Peter Capek, PhD.

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

Ing. Ján Hirsch, DrSc.

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

doc. Ing. Ladislav Petruš, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2018 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	3 206 972	2 411 221	293 843	501 908	0
Bežné výdavky	3 107 594	2 399 061	206 625	501 908	0
v tom:					
mzdy (610)	1 591 404	1 409 420	32 088	149 896	0
poistné a príspevok do poisťovní (620)	562 773	495 860	4 080	62 833	0
tovary a služby (630)	738 869	365 561	162 314	210 994	0
z toho: časopisy	36 953	35 936	1 017	0	0
VEGA projekty	180 397	180 397	0	0	0
MVTS projekty	67 490	53 774	0	13 716	0
CE	0	0	0	0	0
vedecká výchova	6 360	6 360	0	0	0
bežné transfery (640)	214 548	128 220	8 143	78 185	0
z toho: štipendiá	128 220	128 220	0	0	0
transfery partnerom projektov	78 185	0	0	78 185	0
Kapitálové výdavky	99 378	12 160	87 218	0	0
v tom:					
obstarávanie kapitálových aktív	99 378	12 160	87 218	0	0
kapitálové transfery	0	0	0	0	0
z toho: transfery partnerom projektov	0	0	0	0	0

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2018 spolu	v tom:	
		rozpočtové	z mimoroz p. zdrojov
Príjmy spolu	3 811 285	2 437 722	1 373 563
Nedaňové príjmy	2 754 014	2 437 722	316 292
v tom:			
príjmy z prenájmu	0	0	0
príjmy z predaja výrobkov a služieb	316 024	0	316 024
iné	268	0	268
Granty a transfery (mimo zdroja 111)	1 057 271	0	1 057 271
v tom:			
tuzemské	431 119	0	431 119
z toho: APVV	331 219	0	331 219
iné	99 900	0	99 900
zahraničné	626 152	0	626 152
z toho: projekty rámcového programu EÚ	622 757	0	622 757
iné	3 395	0	3 395

13. Nadácie a fondy pri organizácii SAV

Chemický ústav SAV nespravoval v roku 2018 žiadnu nadáciu ani fondy.

14. 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 asi 3500 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 350 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2018: 55 (3 pre CHÚ SAV, 33 pre iné organizácie a 19 pre zahraničie). Získané kultúry v roku 2018: 71 (27 samostatne izolovaných a 44 získaných z iných pracovísk). Príjem za honorované služby (predané kultúry, identifikované kmene, úschova a rekultivácia kmeňov) predstavoval 1849 € a úspora predstavovala 2220 € (90 € za kmene pre CHÚ, 810 € za izolované kmene a 1320 € za získané kmene zo zahraničia a 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. 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. Celkové tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2018 sumu 216443 €.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletne analytické a štrukturálne 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 11632 €. Príjmy za rozboru vody, ktoré poskytuje špeciálne laboratórium zriadené na tieto účely (analyzovaných bolo 93 vzoriek), predstavovali sumu 4236 € pre mimoakademických zákazníkov a prínos pre pracovníkov ústavu vo výške 2988 €.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v r. 2018

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Bertók Tomáš

Ocenenie Predsedníctva SAV

Oceňovateľ: Predsedníctvo SAV

Opis: Za spoločnú slovensko-českú publikáciu v medzinárodnom vedeckom časopise s najvyšším impakt faktorom podľa databázy WOS.

Farkaš Pavol

Cena SAV za popularizáciu vedy

Oceňovateľ: Predsedníctvo SAV

Opis: Za propagáciu významu vedy a presadzovanie jej rozvoja, osobitne za aktivity spojené s organizovaním projektu „Nájdí v sebe vedca“. (ako člen kolektívu: Ing. Miroslav Ferko, PhD. (CEM SAV), Ing. Martin Nosko, PhD. (ÚMMS SAV), Mgr. Silvia Podhradská, PhD. (ÚPo SAV), Ing. Alena Šišková, PhD. (ÚPo SAV))

Koň Miroslav

Zlatá medaila SAV

Oceňovateľ: Vedecká rada SAV

Opis: Za prínos v oblasti organickej chémie ako aj za rozmery ľudskosti.

Mastihubová Mária

Čestná plaketa SAV Dionýza Štúra za zásluhy v prírodných vedách

Oceňovateľ: Predsedníctvo SAV

Opis: Za výsledky výskumu v oblasti chemoenzymatických metód v syntéze významných produktov.

Paulovičová Ema

Čestná plaketa SAV za zásluhy v biologických vedách

Oceňovateľ: Predsedníctvo SAV

Opis: Za odbornú a pedagogickú prácu v imunochémii glykokonjugátov a vedeckú prácu v oblasti imunobiologického výskumu.

Sládek Vladimír

Cena Predsedníctva SAV

Oceňovateľ: Predsedníctvo SAV

Opis: Za 2. miesto v Súťaži mladých vedeckých pracovníkov SAV do 35 r. za II. oddelenie vied SAV.

Tkáč Ján

Ocenenie Predsedníctva SAV

Oceňovateľ: Predsedníctvo SAV

Opis: Za spoločnú slovensko-českú publikáciu v medzinárodnom vedeckom časopise s najvyšším impakt faktorom podľa databázy WOS

15.1.2. Iné domáce ocenenia

Bertók Tomáš

Prémia za vedeckú a odbornú literatúru za rok 2017 v kategórii prírodné a technické vedy

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru a počítačové programy

Opis: Za dielo: Nanobiotechnológie alebo Od lepiacej pásky k medicínskym aplikáciám. (kolektív autorov: Ing. Tomáš Bertók, PhD., RNDr. Anikó Bertóková, PhD., Ing. Jaroslav Filip, PhD., RNDr. Alena Holazová, PhD., Ing. Štefan Belický, PhD., RNDr. Peter Kasák, PhD., Ing. Ján Tkáč, DrSc.)

Bertóková Anikó

Prémia za vedeckú a odbornú literatúru za rok 2017 v kategórii prírodných a technických vied

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru a počítačové programy

Opis: Za dielo: Nanobiotechnológie alebo Od lepiacej pásky k medicínskym aplikáciám. (kolektív autorov: Ing. Tomáš Bertók, PhD., RNDr. Anikó Bertóková, PhD., Ing. Jaroslav Filip, PhD., RNDr. Alena Holazová, PhD., Ing. Štefan Belický, PhD., RNDr. Peter Kasák, PhD., Ing. Ján Tkáč, DrSc.)

Farkaš Vladimír

Cena za vedu a techniku 2018 v kategórii celoživotné zásluhy v oblasti vedy a techniky

Oceňovateľ: Ministerstvo školstva, vedy, výskumu a športu SR

Opis: Za originálne výsledky výskumu metabolizmu fungálnych a rastlinných polysacharidov a biologickej ochrany rastlín a ich využitie v praxi.

Holazová Alena

Prémia za vedeckú a odbornú literatúru za rok 2017 v kategórii prírodných a technických vied

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru a počítačové programy

Opis: Za dielo: Nanobiotechnológie alebo Od lepiacej pásky k medicínskym aplikáciám. (kolektív autorov: Ing. Tomáš Bertók, PhD., RNDr. Anikó Bertóková, PhD., Ing. Jaroslav Filip, PhD., RNDr. Alena Holazová, PhD., Ing. Štefan Belický, PhD., RNDr. Peter Kasák, PhD., Ing. Ján Tkáč, DrSc.)

Květoň Filip

Diplom pri príležitosti X. Interaktívnej konferencie mladých vedcov 2018

Oceňovateľ: Občianske združenie PREVEDA

Opis: Za vynikajúci príspevok v sekcii Využitie inštrumentálnych metód v analýze biologicky významných látok.

Květoň Filip

Diplom za 3. miesto v slovenskej súťaži Metrohm Young Chemist Award 2018

Oceňovateľ: Metrohm Slovensko

Opis: Za prácu "Optimization of the small glycan presentation for binding a tumor-associated antibody: application to the construction of an ultrasensitive glycan biosensor".

Lorencová Lenka

Diplom za 2. miesto v slovenskej súťaži Metrohm Young Chemist Award 2018

Oceňovateľ: Metrohm Slovensko

Opis: Za prácu "Electrochemical performance of Ti₃C₂TxMXene in aqueous media: towards ultrasensitive H₂O₂ sensing".

Lux Alexander

Prémia za vedeckú a odbornú literatúru za rok 2017 v kategórii biologické a lekárske vedy

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru a počítačové programy

Opis: Za dielo: Embryológia kvitnúcich rastlín (kolektív autorov: RNDr. Oľga Erdelská, DrSc., Mgr. Renáta Švubová, PhD., RNDr. Lenka Mártonfiová, PhD., prof. RNDr. Alexander Lux, CSc.).

Pakanová Zuzana

Cena za najlepšiu publikáciu Slovenskej fyziologickej spoločnosti za rok 2017

Oceňovateľ: Slovenská fyziologická spoločnosť

Opis: Ocenenie udelené za publikáciu: MAJZÚNOVÁ, Miroslava - PAKANOVÁ, Zuzana - KVASNIČKA, Peter - BALIŠ, Peter - ČAČANYIOVÁ, Soňa - DOVINOVÁ, Ima. Age-dependent redox status in the brain stem of NO-deficient hypertensive rats. In Journal of Biomedical Science, 2017, vol. 24, article 72.

Petruš Ladislav

Bronzová medaila Prírodovedeckej fakulty UPJŠ

Oceňovateľ: Vedecká rada Prírodovedeckej fakulty UPJŠ

Opis: Za podiel na rozvoji fakulty.

Tkáč Ján

Cena za vedu a techniku 2018 v kategórii "Vedecko-technický tím roka"

Oceňovateľ: Ministerstvo školstva, vedy, výskumu a športu SR

Opis: Za vedeckovýskumnú, publikačnú, podnikateľskú a popularizačnú činnosť v oblasti technológií nanoštruktúrovaných (bio)senzorov a medicínskej diagnostiky.

Tkáč Ján

Prémia za vedeckú a odbornú literatúru za rok 2017 v kategórii prírodných a technických vied

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru a počítačové programy

Opis: Za dielo: Nanobiotechnológie alebo Od lepiacej pásky k medicínskym aplikáciám. (kolektív autorov: Ing. Tomáš Bertók, PhD., RNDr. Anikó Bertóková, PhD., Ing. Jaroslav Filip, PhD., RNDr. Alena Holazová, PhD., Ing. Štefan Belický, PhD., RNDr. Peter Kasák, PhD., Ing. Ján Tkáč, DrSc.)

15.2. Medzinárodné ocenenia

Květoň Filip

Cena Shimadzu 2018

Oceňovateľ: Firma Shimadzu a Contipro a.s. v spolupráci s Českou společností chemickou

Opis: Cena za práci "Detekcia tumor asociovanej protilátky GOD3-2C4 glykánovým biosenzorom na báze Tn antigénu" udelená v odbore Analytická chémia. 3. miesto spojené s finančnou odmenou 450 €.

Květoň Filip

Oral Presentation Award - 3rd Prize

Oceňovateľ: Metrohm Česká republika

Opis: Za prezentáciu v rámci Young Scientists' Session na konferencii XVIII. Workshop of Biophysical Chemists and Electrochemists, 12-13 September 2018, Brno, Czech Republic.

16. 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.

17. Problémy a podnety pre činnosť SAV

a) Zabezpečovanie a pridelovanie finančných prostriedkov zo ŠR

Upozorňujeme na včasné pridelovanie schválených finančných prostriedkov zo ŠR na všetky druhy grantových projektov v kalendárnom roku (aj keď v tomto smere už došlo k zlepšeniu), aby oneskorené platby nekomplikovali organizáciu práce riešiacich kolektívov a plnenie harmonogramu etáp riešenia projektov a zároveň, aby mohla byť plnená požiadavka štátnej pokladnice na rovnomerné čerpanie štátnych finančných prostriedkov v priebehu roka.

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

Oceňujeme rozhodnutie P SAV, že v r. 2018 neznížilo finančné prostriedky na granty akademickej agentúry VEGA a že sa podieľalo na stabilizácii financovania projektov Verejnej výzvy APVV.

b) Iné problémy pracoviska

Napriek tomu, že sa výrazne zmodernizovala prístrojová technika v Analytickom oddelení, ktoré bolo vďaka finančným prostriedkom (cca 17 mil. €) z troch implementovaných projektov OP ŠF, v ktorých bol ústav nositeľom projektu, vybavené špičkovými a sofistikovanými prístrojmi a taktiež došlo k zlepšeniu situácie aj v prístrojovom vybavení jednotlivých výskumných laboratórií (vďaka finančným prostriedkom z troch projektov OP ŠF, v ktorých ústav participoval ako partner), nedostatok kapitálových finančných prostriedkov z iných zdrojov neumožnil v roku 2018 výraznejšiu obnovu prístrojového vybavenia v Realizačnom oddelení a v Zbierke kultúr kvasiniek. Zbierka má možnosť používať špeciálne prístroje zakúpené z prostriedkov OP ŠF a dva prístroje slúžiace na identifikáciu kvasiniek pomocou molekulárno-

biologických metód zakúpené v r. 2013 z vlastných zdrojov; potrebuje však obnoviť a dokúpiť základné prístrojové vybavenie (najvyššiu prioritu majú autoklávy a hlbokomraziaci box na -86°C), zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie a uzatvoriť priestory, v ktorých sa nachádza, aby mohla splniť štandardy, ktoré vyžaduje OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO). 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. Takto získané financie by sa mohli využiť aj na dokončenie úplnej rekonštrukcie počítačovej siete CHÚ SAV.

b) Iné podnety

Opätovne upozorňujeme na niektoré nedostatky v Osnove Správy o činnosti organizácie: a) v záhlaví tabuľky 3f "Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium" treba slovo "spoločných" vynechať alebo nahradiť slovom "univerzitných", pretože spoločné odborové komisie ukončili svoju činnosť už v roku 2010 a od roku 2011 existujú len odborové komisie pre doktorandské štúdium, ktoré sú zriaďované osobitne pre každú univerzitu, na ktorej bol príslušný odbor doktorandského štúdia akreditovaný; b) zosúladiť resp. rozlišovať (regionalita versus účasť) používanie výrazov "zahraničný" a medzinárodný" (napr. pri vedeckých konferenciách).

Oceňujeme, že vzhľadom k havarijnému stavu zdravotníckej (vodoinštalácia, kanalizácia, vzduchotechnika) v celej budove, P SAV vyčlenilo finančné prostriedky na jej komplexnú rekonštrukciu, s ktorou sa už začalo koncom roka a bude pokračovať v roku 2019.

Apelujeme na P SAV, aby sledovalo situáciu ohľadne prístupu do vedeckých databáz a nedopustilo, že dôjde k prerušeniu prístupu do nich.

Apelujeme na P SAV, aby sa pre SAV pokúsilo vybaviť výnimku zo zákona o verejnom obstarávaní, ktorý pracoviskám SAV aj naďalej spôsobuje značné komplikácie.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Miroslav Koóš, DrSc., 02/ 59410254, 02/ 59410200
Olga Švančarová, 02/ 59410208 (ekonomická časť)

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
Ing. Miroslav Koóš, DrSc.

.....
Ing. Vladimír Mastihuba, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2018

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	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.	Ing. Miroslav Kooš, DrSc.	100	1.00
7.	RNDr. Mária Matulová, DrSc.	100	1.00
8.	doc. Ing. Ladislav Petruš, DrSc.	70	0.70
9.	Ing. Ivan Šimkovic, DrSc.	80	0.80
10.	Ing. Ján Tkáč, DrSc.	150	1.22
11.	Ing. Igor Tvaroška, DrSc.	5	0.05
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Anna Ebringerová, PhD.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	100	1.00
3.	Ing. Maroš Bella, PhD.	100	1.00
4.	Ing. Tomáš Bertók, PhD.	150	1.46
5.	Mgr. Jana Blahutová, PhD.	100	0.50
6.	Ing. Emília Breierová, PhD.	100	1.00
7.	Ing. Marek Bučko, PhD.	100	1.00
8.	Mgr. Peter Capek, PhD.	50	0.50
9.	Ing. Alžbeta Čížová, PhD.	100	1.00
10.	Ing. Hana Dudášová, PhD.	100	1.00
11.	Ing. Pavol Farkaš, PhD.	100	1.00
12.	RNDr. Alena Holazová, PhD.	100	0.67
13.	Ing. Eva Hrabárová, PhD.	100	1.00
14.	Ing. Miloš Hricovíni, PhD.	100	1.00

15.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
16.	Ing. Zdenka Hromádková, PhD.	100	1.00
17.	Ing. Jaroslav Katrlík, PhD.	130	1.30
18.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
19.	RNDr. Karin Kollárová, PhD.	100	1.00
20.	Mgr. Juraj Kóňa, PhD.	100	1.00
21.	Ing. Zuzana Košťálová, PhD.	100	1.00
22.	Mgr. Stanislav Kozmon, PhD.	100	1.00
23.	RNDr. Desana Lišková, PhD.	100	1.00
24.	RNDr. Lenka Lorencová, PhD.	140	1.03
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.	90	0.90
30.	Ing. Jozef Nahálka, PhD.	100	1.00
31.	Ing. Marek Nemčovič, PhD.	100	1.00
32.	Ing. Ema Paulovičová, CSc.	100	1.00
33.	Ing. Lucia Paulovičová, PhD.	100	1.00
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. Eva Stratilová, PhD.	100	1.00
38.	Ing. Sergej Šesták, PhD.	100	1.00
39.	Ing. Katarína Šuchová, PhD.	100	1.00
40.	Ing. Renáta Vadkertiová, PhD.	100	1.00
41.	Ing. Alica Vikartovská, PhD.	100	1.00
42.	Mgr. Zuzana Vivodová, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Jana Bellová, PhD.	100	1.00
2.	RNDr. Anikó Bertóková, PhD.	100	0.00
3.	RNDr. Sandra Bieliková, PhD.	100	0.75
4.	RNDr. Lucia Demovičová, PhD.	100	0.00
5.	Ing. Soňa Garajová, PhD.	100	0.00
6.	Ing. Michal Híreš, PhD.	100	1.00

7.	Ing. Michal Hricovíni, PhD.	100	0.34
8.	Ing. Andrej Chyba, PhD.	100	1.00
9.	RNDr. Eduard Jáné, PhD.	100	1.00
10.	Mgr. Elena Karnišová Potocká, PhD.	100	0.33
11.	Mgr. Tomáš Klunda, PhD.	100	0.33
12.	Mgr. Lenka Kohútová, PhD.	100	0.00
13.	RNDr. Ján Kozák, PhD.	100	1.00
14.	Ing. Tomáš Krajčovič, PhD.	100	0.33
15.	Mgr. Martina Križáková, PhD.	100	0.16
16.	Mgr. Danica Kučerová, PhD.	100	0.00
17.	Ing. Zuzana Pakanová, PhD.	100	0.00
18.	RNDr. Klaudia Palenčárová, PhD.	100	0.00
19.	Ing. Božena Pribulová, PhD.	100	1.00
20.	Ing. Andrea Schenk Mayerová, PhD.	100	0.00
21.	Ing. Vladimír Sládek, PhD.	100	1.00
22.	Mgr. Mária Šedivá, PhD.	100	1.00
23.	Ing. Kristína Vadinová, PhD.	100	0.00
24.	Mgr. Jana Valáriková, PhD.	100	1.00
25.	RNDr. Jana Ziburová, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Ing. Viera Bedrichová	100	1.00
3.	Ing. Erika Farkašová	100	1.00
4.	Mgr. Marietta Hakarová	40	0.13
5.	Ing. Peter Kis	100	0.33
6.	Ing. Mária Kopáčová	100	1.00
7.	Ing. Filip Květoň	32	0.07
8.	Ing. Peter Magdolen	100	1.00
9.	Ing. Filip Pančík	100	0.50
10.	Bc. Ondrej Penzeš	100	1.00
11.	RNDr. Vlasta Sasinková	75	0.75
12.	Ing. Hana Smrtičová	100	1.00
13.	Ing. Jozef Švec	100	1.00
14.	Ing. Jozef Turjan	100	1.00
15.	RNDr. Iveta Uhliariková	100	1.00

Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Ema Podobová	100	1.00
2.	PhDr. Eva Riganová	100	1.00
3.	Mgr. Jana Žabková	100	1.00
Odborní pracovníci ÚSV			
1.	Mária Bednáriková	100	1.00
2.	Veronika Bencová	100	1.00
3.	Alena Bordáčová	100	1.00
4.	Helena Čigašová	100	1.00
5.	Eva Filipková	100	1.00
6.	Ľudmila Gažíková	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chvállová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Alžbeta Kanská	100	1.00
11.	Janka Komačková	100	1.00
12.	Ľudovít Kompaník	100	1.00
13.	Eva Morháčová	100	1.00
14.	Milan Novosad	100	1.00
15.	Nadežda Orthová	100	1.00
16.	Margita Plšková	20	0.20
17.	Emília Rosová	100	0.12
18.	Kvetoslava Sabová	100	1.00
19.	Zdena Smolková	100	1.00
20.	Radoslava Šályová	130	1.03
21.	Alena Šoltésová	100	1.00
22.	Oľga Švančarová	100	1.00
23.	Vojtech Tóth	100	1.00
24.	Matej Vaš	100	1.00
25.	Mariana Vlčeková	100	1.00
26.	Erika Voleková	100	1.00
27.	Scarlett Weinzettlová	100	1.00
28.	Dana Žišková	100	1.00
Ostatní pracovníci			
1.	Ladislav Baláži	100	1.00

2.	Peter Cagán	100	1.00
3.	Dušan Križan	100	1.00
4.	Helena Lešťanská	100	1.00
5.	Elena Masarovičová	100	1.00
6.	Eva Pazderová	100	1.00
7.	Miroslav Pír	100	1.00
8.	Ing. Viliam Podoba	100	0.75
9.	František Špetko	100	1.00
10.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Eva Machová, PhD.	31.1.2018	0.05
Vedeckí pracovníci			
1.	Ing. Ľudmila Belická, PhD.	30.4.2018	0.33
2.	Mgr. Milan Soukup, PhD.	14.8.2018	0.31
Odborní pracovníci ÚSV			
1.	Mgr. Barbora Stratilová	6.9.2018	0.14

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Ing. Anna Blšáková	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
2.	Mgr. Viera Dujnič	Prírodovedecká fakulta UK	4.1.16 organická chémia
3.	Mgr. Veronika Gajdošová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
4.	Mgr. Marietta Hakarová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
5.	Mgr. Ágnes Horváthová	Prírodovedecká fakulta UK	4.1.22 biochémia
6.	Ing. Štefánia Hrončeková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
7.	Mgr. Erika Chocholová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
8.	Mgr. Jana Jakubčinová	Prírodovedecká fakulta UK	4.1.16 organická chémia
9.	Ing. Martin Kalník	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia

10.	Ing. Romana Köszagová	Prírodovedecká fakulta UK	4.1.22 biochémia
11.	Mgr. Dominika Kubalová	Prírodovedecká fakulta UK	4.1.22 biochémia
12.	Ing. Filip Květoň	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
13.	Mgr. Ivana Mišová	Prírodovedecká fakulta UK	4.1.22 biochémia
14.	Ing. Lucia Pažitná	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
15.	Mgr. Barbora Siváková	Prírodovedecká fakulta UK	4.1.22 biochémia
16.	Mgr. Barbora Stratilová	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia
17.	Ing. Mária Zajičková	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
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Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Ing. Tomáš Krajčovič, PhD.	22.8.2018	23.8.2018	100
2.	Mgr. Martina Križáková, PhD.	20.8.2018	21.8.2018	100
3.	RNDr. Sandra Bieliková, PhD.	30.8.2017	1.2.2018	100
4.	Ing. Michal Híreš, PhD.	23.8.2018	1.1.2018	100
5.	Ing. Michal Hricovíni, PhD.	21.8.2018	15.5.2018	100
6.	Mgr. Tomáš Klunda, PhD.	13.11.2018	1.9.2018	100

Zoznam emeritných vedeckých zamestnancov

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Príloha B**Projekty riešené v organizácii****Medzinárodné projekty****Programy: Medziústavná dohoda****1.) Izolácia neprístupných štruktúr acetylxylnu a enzýmy ich hydrolýzy** (*Isolation of recalcitrant acetylxyln structures and enzymes of their hydrolysis*)

Zodpovedný riešiteľ: Peter Biely
Trvanie projektu: 22.12.2017 / 22.12.2020
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Novozymes A/S: 10000 €

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

Zodpovedný riešiteľ: Slavomír Bystrický
Trvanie projektu: 4.10.2014 / 31.3.2019
Evidenčné číslo projektu: 5R01AI106878-02
Organizácia je koordinátorom projektu: nie
Koordinátor: Massachusetts General Hospital
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: National Institute of Allergy and Infectious Diseases, NIH, USA: 2872 €

3.) Porovnanie výťažkov AcGX z rôznych zdrojov bukového dreva (Fagus sylvatica) (*Comparison of the yields of AcGX from different beechwood sources (Fagus sylvatica)*)

Zodpovedný riešiteľ: Peter Capek
Trvanie projektu: 1.7.2018 / 30.6.2019
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Gabriele Fontana, Indena S.p.A., Milano, Italy
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Programy: Medzivládna dohoda**4.) Analýza glykánových biomarkerov ako nástroj pre biomedicínsky výskum, sledovanie a diagnostiku nádorových ochorení** (*Glycan biomarkers analysis as a tool for biomedical*

research, follow-up and diagnosis of tumor diseases)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.1.2017 / 31.12.2018
Evidenčné číslo projektu: SK-SRB-2016-0023
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Srbsko: 3
Čerpané financie: -
 Podpora medzinárodnej spolupráce z národných zdrojov: 2350 €

Dosiahnuté výsledky:

Výsledky dosiahnuté v spolupráci so srbským partnerom (Prof. O. Nedić, Institute for the Application of Nuclear Energy - INEP, University of Belgrade, Srbsko) v oblasti skúmania glykozylačných zmien na glykoproteínoch ako potencionálnych biomarkeroch fyziologických procesov (membránové proteíny placenty) a rakoviny hrubého čreva pomocou lektínovej microarray boli sumarizované v dvoch spoločných publikáciách a prezentované v dvoch príspevkoch na medzinárodných vedeckých konferenciách.

GLIGORIJEVIĆ, Nikola - MINIĆ, Simeon - KRIŽÁKOVÁ, Martina - KATRLÍK, Jaroslav - NEDIĆ, Olgica. Structural changes of fibrinogen as a consequence of cirrhosis. In Thrombosis Research, 2018, vol. 166, p. 43-49. (2.779 - IF2017). ISSN 0049-3848. (ADCA)

GLIGORIJEVIĆ, Nikola - ZÁMOROVÁ KRIŽÁKOVÁ, Martina - 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. (3.909 - IF2017). ISSN 0141-8130. (ADCA)

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - CHUDÁ, Katarína - KOBAYASHI, Yuka - BYSTRICKÝ, Branislav. Glycosylation changes in cancer determined by lectin-based protein microarray. In PILAR RAUTER, Amélia - de MATOS, Ana Marta - NUNES, Rafael - PAIS, João - XAVIER, Nuno M. - GONÇALVES PEREIRA, Rita - BLÁZQUEZ-SÁNCHEZ, Maria Teresa - MARTINS, Filomena - MORAIS, Tânia - PAIVA, Ana Paula - PAMPLONA, Teresa - ROSEIRO, Luísa - SOLEDADE SANTOS, Maria - TOMAZ, Ana Isabel - CARVALHO, Ana Paula - ARAÚJO, Eduarda - MAYCOCK, Christopher - BORGES, Carlos (eds.). Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. Lisboa: Sociedade Portuguesa de Química, 2018, p. 524. (AFG)

5.) Vývoj bioanalytických systémov založených na nových lektínoch so zlepšenou špecifitou pre aplikácie v diagnostike (*Development of bioanalytical systems based on novel lectins with enhanced specificity for application in diagnostics*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.9.2018 / 31.12.2019
Evidenčné číslo projektu: SK-KR-18-0004
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Kórejská republika: 1

Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Programy: COST

6.) Európsky systém na podporu výskumu a aplikácií karotenoidov v potravinárstve a zdravotníctve (*European network to advance carotenoid research and applications in agro-food and health (EUROCAROTEN)*)

Zodpovedný riešiteľ: Emília Breierová
Trvanie projektu: 18.4.2016 / 17.4.2020
Evidenčné číslo projektu: CMST COST Action CA15136
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Antonio J. Melendez-Martinez, Universidad de Sevilla, Sevilla
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -
 Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Výskum bol zameraný na kvasinky produkujúce karotenoidné pigmenty, ktoré sa budú využívať ako zdroje karoténov a tukov v potravinárstve, krmovinárstve a medicíne. Mikrobiálna produkcia predstavuje zaujímavú možnosť ako získať cenné produkty s požadovaným profilom mastných kyselín a karotenoidných pigmentov. Využili sa kvasinky patriace do rodov *Rhodotorula*, *Rhodospiridium*, *Sporobolomyces* a druhu *Phaffia rhodozyma*, ktorých všeobecnou vlastnosťou je akumulácia vyššieho množstva pigmentového beta-karoténu. Produkcia a vzájomný pomer pigmentov (beta-karoténu, gama-karoténu, torulénu, torularodínu, astaxantínu, atď.) sa u jednotlivých druhov kvasiniek líši a je ovplyvnená fermentačnými podmienkami a fyziologickými faktormi (rôzne C/N zdroje a ich pomer, stresové faktory, typ svetelného zdroja a jeho vlnová dĺžka, atď.). Celková akumulácia mastných kyselín je tiež závislá od použitého kmeňa a kultivačných podmienok. Množstvo vyprodukovaných mastných kyselín sa pohybuje od 15% do 40%. Štúdia na potkanoch ukázala, že podávanie kvasinkovej biomasy s vysokým obsahom karotenoidov vo všeobecnosti pozitívne ovplyvnilo funkciu endotelu a znížilo expresiu konexínu Cx40, ktorý sa považuje za dôležitý faktor pri srdcovej arytmií. Podávanie kvasinkovej biomasy s vysokým obsahom karotenoidov zlepšilo funkciu erytrocytov a následne kapilárneho obehu, zlepšilo vnútornú produkciu NO a intracelulárnu homeostázu sodíka.

BREIEROVÁ, Emília - ČERTÍK, Milan - MÁROVÁ, Ivana - VADKERTIOVÁ, Renáta. Influence of oxidative stress on the uptake of zinc by carotene yeasts: The effect of Zn(II) ions and reactive oxygen on the uptake of zinc and production of carotenoids by selected red yeasts. In *Chemistry & Biodiversity*, 2018, vol. 15, p. e1800069. (1.617 - IF2017). (2018 - Current Contents). ISSN 1612-1872. (ADCA)

FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - KNEZL, Vladimír - KRIŽÁK, Jakub - BREIEROVÁ, Emília - OKRUHLICOVÁ, Ľudmila. Treatment of moderate inflammation with carotenoids and their effect on connexins expression on left ventricle of the heart. In *Program and Book of Abstracts: 5th European Section Meeting of the International Academy of Cardiovascular Sciences (IACS-ES): Advances in Cardiovascular Research: From basic mechanisms to therapeutic strategies*, May 23-26, 2018, Smolenice, Slovakia. Bratislava: VEDA, 2018, p. 77. ISBN 978-80-224-1649-8. (AFH)

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

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:	Dr. Maria Lawrenz, Vaccine Formulation Institute, Godalming, Veľká Británia
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels: 784 € Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Na prvom formálnom stretnutí riešiteľov projektu (1st ENOVA Adjuvant Workshop vo Švajčiarsku) boli vytvorené pracovné skupiny. Vedecký kolektív z CHÚ SAV sa bude aktívne zapájať do výskumu v oblasti využitia adjuvantných látok v príprave moderných a bezpečných vakcín. Bola naplánovaná a je riešená príprava molekúl obsahujúcich prírodné oligosacharidové antigény, ktoré budú vhodné na prípravu dekorovaných niozómov ako potenciálnych imunogénov.

8.) 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 / 13.3.2021
Evidenčné číslo projektu:	CA COST Action CA16113
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Theo M. Luider, Erasmus University Medical Center, Rotterdam, Holandsko
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels: 1000 € Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Výskum v rámci tejto spolupráce bol zameraný na správne praktiky pri analýze biomarkerov, interpretácii výsledkov a aplikácii v medicíne a to najmä v oblasti sledovania glyko-biomarkerov. Dosiahnuté výsledky boli prezentované na dvoch zahraničných medzinárodných konferenciách a pripravuje sa spoločná publikácia.

KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina - CHUDÁ, Katarína - KOBAYASHI, Yuka - BYSTRICKÝ, Branislav. Glycosylation changes in cancer determined by lectin-based protein microarray. In PILAR RAUTER, Amélia - de MATOS, Ana Marta - NUNES, Rafael - PAIS, João - XAVIER, Nuno M. - GONÇALVES PEREIRA, Rita - BLÁZQUEZ-SÁNCHEZ, Maria Teresa - MARTINS, Filomena - MORAIS, Tânia - PAIVA, Ana Paula - PAMPLONA, Teresa - ROSEIRO, Luísa - SOLEDAD SANTOS, Maria - TOMAZ, Ana Isabel - CARVALHO, Ana Paula - ARAÚJO, Eduarda - MAYCOCK, Christopher - BORGES, Carlos (eds.). Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. Lisboa:

Sociedade Portuguesa de Química, 2018, p. 524. (AFG)

KATRLÍK, Jaroslav - PAKANOVÁ, Zuzana - KRIŽÁKOVÁ, Martina, Zámorová - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - ŠESTÁK, Sergej - BARÁTH, Peter - MUCHA, Ján. Determination of glycosylation defects in congenital disorders of glycosylation: application of lectin-based protein microarray and mass spectrometry approaches. In Book of Abstracts: 2nd GlycoCom and 1st Human Glycome Project Meeting, October 3-6, Dubrovnik, Croatia. Zagreb: Spektar putovanja, 2018, p. 91. (AFG)

KATRLÍK, Jaroslav. Glycoprofiling by lectin-based protein microarrays for biomedical applications. In Abstract Book: Microarrays and Nanoarrays in Microfluidics and Multiplex Diagnostics within IVD and POCT (MMM), 11- 12 October 2018, Vienna. - 2018, p. 17.

9.) Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a cieleňú terapiu (*Functional glyconanomaterials for the development of diagnostics and targeted therapeutic probes (GLYCONanoPROBES)*)

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	6.12.2018 / 12.11.2022
Evidenčné číslo projektu:	CA COST Action CA18132
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. M. Carmen Galan, University of Bristol, Bristol, Veľká Británia
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Projekt sa začal riešiť až v decembri 2018.

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

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:	Dr. Richard Gosselink, Stichting Wageningen Research, Wageningen, Holansko
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:

Uskutočnil sa zahajovací míting akcie v Bruseli (4.10.2018).

11.) Zhodnotenie vedľajších prúdov spracovania lignocelulózovej biomasy pre udržateľnú produkciu chemikálií, materiálov a palív pomocou technológií s nízkym dopadom na životné prostredie (*Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies*)

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 15.5.2014 / 14.5.2018
Evidenčné číslo projektu: FPS COST Action FP1306
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Rafael Luque, Departamento de Química Organica, Universidad de Córdoba, Córdoba, Španielsko
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EC Brussels (COST): 1030 €
 Podpora medzinárodnej spolupráce z národných zdrojov: 1867 €

Dosiahnuté výsledky:

Tyrozol a hydroxytyrozol sú rastlinnými a mikrobiálnymi metabolitmi, ktorých deriváty, predovšetkým rastlinné, vykazujú významné biologické a farmakologické aktivity. Sériou enzýmových glykozylácií boli pripravené ich analógy a stavebné bloky pre ďalšiu derivatizáciu. V marci 2018 sa konal záverečný 5th MC Meeting a 4th Workshop FPS COST Action FP1306 v Thessaloniki, Grécko.

KARNIŠOVÁ POTOČKÁ, Elena - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Enzymatic glycosylations of tyrosol and hydroxytyrosol. In Book of Abstracts: COST Action FP1306 4th Workshop & 5th MC Meeting, March 12-14, 2018, Thessaloniki, Greece. Thessaloniki: Aristotle University of Thessaloniki, 2018, p. 71, O-44. (AFG)

12.) Náročné organické syntézy inšpirované prírodou – od chémie prírodných produktov k objavu liečiv (*Challenging organic syntheses inspired by nature – from natural products chemistry to drug discovery*)

Zodpovedný riešiteľ: Mária Mastihubová
Trvanie projektu: 16.3.2015 / 15.3.2019
Evidenčné číslo projektu: CMST COST Action CM1407
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Bruno Botta, Università degli Studi di Roma La Sapienza, Dipartimento di Chimica e Tecnologie del Farmaco, Rome
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EC Brussels (COST): 1592 €
 Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Rutín, enzymaticky acylovaný v našom laboratóriu kyselinou arachidónovou, bol testovaný spolu s inými prírodnými polyfenolmi ako sirtuin 6 modulátor.

V termíne 13.-14. decembra 2018 sa uskutočnil Final Meeting of COST Action CM1407 v La Laguna, Tenerife, Španielsko, ktorému predchádzala 3rd Training School (10.-12. decembra 2018) so zameraním na „Computational modeling in drug discovery with natural products“. Sériou syntetických alebo enzymatických krokov boli pripravené fenyletanoidné diglykozidy (ramno- a apioglukozidy) a uskutočnila sa ich enzymatická acylácia 4-hydroxyfenylpropénovými kyselinami. V rámci celého projektu sa ukončilo širokopásmové testovanie látok, poskytnutých na testovanie WG1 skupinou ostaným WG skupinám na vymedzené biologické aktivity. Vyselektované boli najúčinnšie deriváty. Ostatné látky sú v procese vyhodnocovania a zhodnocovania do budúcnosti. Pripravuje sa knižnica štandardov dostupných prírodných látok a ich derivátov. Tieto budú

dostupné aj pre iné testy.

Pokračuje sa vo vývoji metód prípravy funkcionalizovaných stilbénov pre Dr. Carole Devaux z Luxembourg Institute of Health. Nadviazal sa kontakt s Prof. Patrício Rijo z Univerzity Lusófona (CBIOS), Lisabon, Portugalsko. Uskutočňuje sa glyko-derivatizácia niektorých jej izolovaných prírodných látok s cieľom zlepšiť ich farmakokinetické vlastnosti.

KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBA, Vladimír - ČIČOVÁ, Iveta - MASTIHUBOVÁ, Mária. Regioselective rutinoylation of tyrosol with a plant biocatalyst. In Book of Abstracts: COST Action CM1407 Final Meeting, December 13-14, 2018, San Cristóbal de La Laguna, Tenerife, Canary Islands, Spain. Tenerife: IPNA-CSIC, 2018, p. P30. (AFG)

KIS, Peter - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. The synthesis of phenylethanoid diglycosides: osmanthuside H, cuneataside C, decaffeyl verbascoside and their enzymatic phydroxycinnamoylation. In Book of Abstracts: COST Action CM1407 Final Meeting, December 13-14, 2018, San Cristóbal de La Laguna, Tenerife, Canary Islands, Spain. Tenerife: IPNA-CSIC, 2018, p. P19. (AFG)

HEGER, Vladimír - RILLA-RAHNAŠTO, Minna - VISKUPIČOVÁ, Jana - ZOOFISHAN, Zoofishan - HUNYADI, Attila - HORÁKOVÁ, Ľubica - MASTIHUBOVÁ, Mária - KAKKONEN-LAHTELA, Maija. Modulation of SIRT6 deacetylation activity by flavonoid derivatives. In Abstracts Book: COST Action CM1407, 5th MC/WG Meeting: Challenging Organic Syntheses Inspired by Nature - From Natural Products Chemistry to Drug Discovery, March 1-2, 2018, Salini Resort, Malta. Msida: COST, 2018, p. 38. (AFG)

HEGER, Vladimír - RAHNAŠTO-RILLA, Minna - VISKUPIČOVÁ, Jana - ZOOFISHAN, Zoofishan - HUNYADI, Attila - HORÁKOVÁ, Ľubica - MASTIHUBOVÁ, Mária - LAHTELA-KAKKONEN, Maija. Polyphenol derivatives as sirtuin modulators. In Book of Abstracts: VIIth Miniconference of PhD Students: Creating New Connections, June 12, 2018, Bratislava, Slovakia. Bratislava: Centre of Experimental Medicine, Slovak Academy of Sciences, 2018, p. 7. (AFH)

Programy: 7RP

13.) Nanoštruktúrové hybridné organicko-anorganické solárne články (*Nanostructured hybrid organic-inorganic solar cells*)

Zodpovedný riešiteľ:	Júlia Mičová
Trvanie projektu:	1.9.2016 / 31.8.2018
Evidenčné číslo projektu:	KONNECT 007
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Česko: 1, Kórejská republika: 1, Slovensko: 1
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 16667 €

Dosiahnuté výsledky:

V dňoch 22.-26. apríla 2018 sa na Chemickom ústave SAV v Bratislave konalo záverečné stretnutie partnerov projektu KONNECT 007 na ktorom Prof. Chan Im (Konkuk University, Soul, Korea), Dr. Zdeněk Remeš, Dr. Jiří Stuchlík, Dr. The Ha Stuchlíková (Fyzikální ústav AV ČR v.v.i., Praha) a Dr. Júlia Mičová (Chemický ústav SAV) sumarizovali dosiahnuté výsledky. Zistilo sa, že 3D

„hedgehog-like“ štruktúra ZnO má zrovnateľné optoelektrické vlastnosti s 1D štruktúrou, jej syntéza je však ekonomicky výhodnejšia. Ďalšia aktivita bola sústredená na dosiahnutie ich povrchovej modifikácie polymérmi vo forme tenkých filmov. Z diskusie vyplynul jednoznačne záujem pokračovať v začatej spolupráci vo forme ďalších spoločných projektov. Prof. Im svoje dlhoročné skúsenosti z oblasti hybridných solárnych článkov prezentoval aj v rámci vedeckého seminára Chemického ústavu SAV.

MIČOVÁ, 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. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332. (ADCA)

KIM, Yonghyun - PARK, Hyunmin - STUHLÍK, Jiří - STUHLÍKOVÁ, The Ha - JIN, Boa - REMEŠ, Zdeněk - MIČOVÁ, Júlia - IM, Chan. Interfacial behaviors of hybrid thin films constituted by organic bulk-heterojunction and amorphous silicon layers. In Book of Abstracts: International Surfaces, Coatings & Interfaces Conference SurfCoat Korea 2018, March 28-30, 2018, Incheon, Seoul, Korea. Dubai: Setcor Media, 2018, p. 74. (AFG)

KIM, Yonghyun - YAO, Shiyu - LIU, Yi - ZHANG, Hao - REMEŠ, Zdeněk - MIČOVÁ, Júlia - TIAN, Wenjing - IM, Chan. Exciton dynamics of Semiconducting Quantum Dots. In Proceedings: Global Photovoltaic Conference 2018, March 14-16, 2018, Gwangju, Korea. Seoul: Korea Photovoltaic Society, 2018, p. 489, ODP-P-102. (AFG)

MIČOVÁ, Júlia - REMEŠ, Zdeněk. Surface-modified zinc oxide nanostructures with conjugated polymer. In Abstract Book: ANM2018: 11th International Conference on Advanced Nano Materials, July 18-20, 2018, Aveiro, Portugal. Aveiro: University of Aveiro, 2018, p. ANM79. (AFG)

Programy: Horizont 2020

14.) Umožnenie využitia celého potenciálu Instruct na konsolidáciu a rozšírenie infraštruktúry potrebnej pre výskum v oblasti vied o živote (*Releasing the full potential of Instruct to expand and consolidate infrastructure services for integrated structural life science research*)

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	Grant agreement No 731005
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Instruct Academic Services Limited, Oxford, UK
Počet spoluriešiteľských inštitúcií:	16 - Belgicko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 2, Grécko: 1, Izrael: 1, Taliansko: 1, Holandsko: 1, Portugalsko: 1, Slovensko: 1, Švédsko: 1
Čerpané financie:	EC Brussels: 18238 € MŠVVaŠ SR: 3500 € Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

Projekt INSTRUCT-ULTRA, je určený na využitie infraštruktúry potrebnej pre výskum štruktúry biomolekúl a podporu spolupráce v rámci krajín zapojených v INSTRUCT-ERIC. V druhom roku

riešenia projektu organizoval CHÚ SAV (Dr. Hricovíni, 15. - 16.11.2018 v Bratislave) konferenciu zameranú na štruktúrnú biológiu, ktorej sa zúčastnilo vyše 40 výskumníkov z viacerých ústavov SAV, FCHPT STU, UPJŠ a zo zahraničia (www.instruct.chem.sk). Okrem informácií o projekte INSTRUCT-ULTRA a INSTRUCT-ERIC bolo prednesených 17 prednášok zameraných na štruktúrnú biológiu, hlavne na štruktúru bielkovín študovaných metódami RŠA, kvantovú chémiu, molekulovú dynamiku, ako aj štruktúru biomolekúl analyzovaných NMR spektroskopiou. V rámci projektu sa podporili cryo-EM merania Lon proteázy (ÚMB SAV) na pracovisku v Brne, ktoré patrí do siete laboratórií projektu INSTRUCT-ERIC. Z konferencie bol vydaný zborník abstraktov.

HRICOVÍNI, Miloš (ed.). Book of Abstracts: INSTRUCT ULTRA 2nd Structural Biology Meeting, November 15-16, 2018, Bratislava, Slovakia. Bratislava: Institute of Chemistry SAS, 2018. ISBN 978-80-971156-6-1. (FAI)

15.) Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty (*A Novel Detection protocols for REliable prostate cancer assays*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.12.2018 / 31.5.2020
Evidenčné číslo projektu: ERC PoC grant agreement ID: 825586
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: 0

Dosiahnuté výsledky:

Projekt sa začal riešiť v decembri 2018.

16.) Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielenú bunkovú interakciu (*Synthetic biology of carbohydrate-binding proteins: engeneering 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: 0

Dosiahnuté výsledky:

Projekt sa začal riešiť v októbri 2018.

Programy: JRP

17.) Mikroelektroforetické nástroje pre bioanalýzu (*Microelectrophoretic tools for bioanalysis*)

Zodpovedný riešiteľ: Vladimír Pätoprstý
Trvanie projektu: 1.10.2017 / 30.9.2020

Evidenčné číslo projektu: nemá
Organizácia je koordinátorom projektu: nie
Koordinátor: Seoul National University
Počet spoluriešiteľských inštitúcií: 11 - Česko: 3, Maďarsko: 2, Kórejská republika: 2, Poľsko: 2, Slovensko: 2
Čerpané financie: 0
 Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

V dňoch 17.-20. júna 2018 sa konalo stretnutie riešiteľov projektu v rámci konferencie International Symposium of Separation Sciences v Jasnej na Slovensku, kde boli prezentované výsledky riešenia projektu. Taktiež bol zaslaný článok do časopisu Trends in Analytical Chemistry, v ktorom sa pojednáva o využití HPLC a kapilárnej elektroforézy v metylačnej analýze polysacharidov v porovnaní s klasickou technikou GC.

HRIVNÁKOVÁ, Viera - PÄTOPRSTÝ, Vladimír. Analysis of carbohydrates as a 1-phenyl-3-methyl-5-pyrazolone derivatives by capillary electrophoresis in comparison by high performance liquid chromatography and methylation analysis. In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 161, P083. ISBN 978-80-971179-8-6. (AFH)

PÄTOPRSTÝ, Vladimír - KOPÁČOVÁ, Mária - CHYBA, Andrej - HRIVNÁKOVÁ, Viera - UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária. Linkage analysis of plant polysaccharides. In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 147, P069. ISBN 978-80-971179-8-6. (AFH)

UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - SASINKOVÁ, Vlasta - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - MINGYAR, Erik - CSOLLEIOVÁ, Dominika - ŠEVČÍKOVÁ, Beatrice - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján. The structure of the angucycline-like antibiotic auricin from *Streptomyces lavendulae* subsp. *lavendulae* CCM 3239. In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 110, P032. ISBN 978-80-971179-8-6. (AFH)

MATULOVÁ, Mária - UHLIARIKOVÁ, Iveta - ŠALINGOVÁ, Anna - BEHÚLOVÁ, Darina - HLAVATÁ, Anna - JURÍČKOVÁ, Katarína - KOLNÍKOVÁ, Miriam - ŠALINGOVÁ, Jana - POTOČNÁKOVÁ, Ľudmila. Targeted diagnosing by NMR spectroscopy – deficiencies of aminoacylase I and guanidinoacetate methyltransferase (GAMT). In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. Bratislava: Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 101, P023. ISBN 978-80-971179-8-6. (AFH)

Domáce projekty**Programy: VEGA****1.) Štúdium stability potenciálnych inhibítorov ľudských glykozyltransferáz** (*Investigation of the stability of potential inhibitors of human glycosyltransferases*)

Zodpovedný riešiteľ: Marek Baráth
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0024/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 18306 €

2.) Vývoj nových imobilizovaných biokatalyzátorov s využitím rekombinantných mikroorganizmov pre biokatalytické kaskádové reakcie (*Development of novel immobilized biocatalysts utilizing recombinant microorganisms for biocatalytic cascade reactions*)

Zodpovedný riešiteľ: Marek Bučko
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0090/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV (VEGA): 15571 €

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 koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 13891 €

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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 5000 €

5.) Identifikácia a charakterizácia izolátov *V. cholerae* z vodných tokov, štrkovísk a termálnych vôd na území Slovenska (*Identification and characterization of *V. cholerae* isolates from rivers, dams and thermal waters in Slovakia*)

Zodpovedný riešiteľ: Pavol Farkaš
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0093/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 6784 €

6.) Štúdium protektívneho potenciálu syntetizovaných fenyletanoidných glykozidov v systémoch cicavčích buniek a plazmidovej DNA (*Study of protective potential of synthesized phenylethanoid glycosides in the systems of mammalian cells and plasmid DNA*)

Zodpovedný riešiteľ: Eva Horváthová
Zodpovedný riešiteľ v organizácii SAV: Mária Mastihubová
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0084/16
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 3227 €

7.) 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

Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: VEGA: 8182 €

8.) Funkčné sacharidy z rastlinných odpadov ako potenciálny doplnok stravy: extrakcia, charakterizácia a terapeutické využitie (*Functional carbohydrates from plant waste as a potential food supplement: extraction, characterization and therapeutic potentials*)

Zodpovedný riešiteľ: Zdenka Hromádková
 Trvanie projektu: 1.1.2017 / 31.12.2020
 Evidenčné číslo projektu: 2/0092/17
 Organizácia je koordinátorom projektu: áno
 Koordinátor: Chemický ústav SAV
 Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: SAV (VEGA): 4603 €

9.) 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
 Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: VEGA: 22463 €

10.) Výskum antimikrobiálneho potenciálu včelej larválnej kašičky voči patogénom včelieho plodu (*Investigation of honeybee larval jelly antimicrobial potential to bee brood pathogens*)

Zodpovedný riešiteľ: Jaroslav Klaudiny
 Trvanie projektu: 1.1.2015 / 31.12.2018
 Evidenčné číslo projektu: 2/0175/15
 Organizácia je koordinátorom projektu: áno
 Koordinátor: Chemický ústav SAV
 Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: SAV (VEGA): 6610 €

11.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17010 €

12.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

13.) 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 koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

14.) Syntetický potenciál marginálnych glykozidáz (*Synthetic potential of marginal glycosidases*)

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0157/16
Organizácia je áno

koordinátorom projektu:

Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 5815 €

15.) Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov (*Enzymatic production of economically valuable oligosaccharides and opiates*)

Zodpovedný riešiteľ: Jozef Nahálka
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0058/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 6461 €

16.) MALDI-TOF-MS a ESI-MSn glykoprofilovanie klinicky významných proteínov (*MALDI-TOF-MS and ESI-MSn glycoprofiling of clinically important proteins*)

Zodpovedný riešiteľ: Marek Nemčovič
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: 2/0130/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4438 €

17.) Imunobiologická efektívnosť nových syntetických imunogénov mimikujúcich fungálne molekulové vzory patogénnosti v perspektívnom dizajne subjednotkovej antifungálnej vakcinačnej formuly (*Immunological effectivity of new synthetic immunogens mimicking fungal pathogen associated molecular patterns in prospective design of subcellular anti-fungal vaccine formulae*)

Zodpovedný riešiteľ: Ema Paulovičová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0098/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 9298 €

18.) 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: VEGA: 3874 €

19.) Štrukturálny dizajn, syntéza a evaluácia selektívnych inhibítorov glykozidhydroláz z rodiny GH38 (*Structural design, synthesis and evaluation of selective inhibitors of glycoside hydrolases from the family 38*)

Zodpovedný riešiteľ: Monika Poláková
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0064/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 9788 €

20.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 5600 €

21.) Redoxná homeostáza, proteostáza a zápal ako potenciálne ciele pre ovplyvnenie starnutia a s ním spojených ochorení: Modulácia pomocou látok prírodného a syntetického pôvodu (*Redox homeostasis, proteostasis and inflammation as potential targets for influencing ageing and age-related diseases: Modulation by the compounds of natural and synthetic origin*)

Zodpovedný riešiteľ: Lucia Račková
Zodpovedný riešiteľ v organizácii SAV: Ján Mucha

Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0041/17
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum experimentálnej medicíny SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

22.) Multi-škálové modelovanie interakcií atómov prechodných kovov a heterocyklických a cukrom-podobných látok (*Multi-scale modelling of transition metal interactions with heterocyclic and sugar-like compounds*)

Zodpovedný riešiteľ: Vladimír Sládek
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0035/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: SAV (VEGA): 1292 €

23.) Štruktúra, funkcia a mechanizmus účinku rastlinných a fungálnych transglykozyláz (*Structure, function and mechanism of action of plant and fungal transglycosylases*)

Zodpovedný riešiteľ: Eva Stratilová
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0058/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 6557 €

24.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4733 €

25.) Štruktúrne a funkčné adaptácie vybraných extremofilov a poľnohospodárskych plodín na abiotické stresory (*Structural and functional adaptations of selected extremophiles and agricultural crops to abiotic stressors*)

Zodpovedný riešiteľ: Zuzana Vivodová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 1/0605/17
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV (VEGA): 894 €

Programy: APVV

26.) Imobilizované rekombinantné mikroorganizmy pre biotechnologickú produkciu chemických špecialít pomocou biokatalytických kaskádových reakcií (*Immobilized recombinant microorganisms for the biotechnological production of chemical specialties using biocatalytic cascade reactions*)

Zodpovedný riešiteľ: Marek Bučko
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0227
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 27680 €

27.) Príprava modelovej subcelulárnej vakcíny z manooligomérnych štruktúr kvasinky Candida albicans (*Preparation of model subcellular vaccine from manno oligomer structures of Candida albicans yeast*)

Zodpovedný riešiteľ: Pavol Farkaš
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0161
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 56000 €

28.) Biočipy a biosenzory pre glykorozpoznávanie, ich vývoj, príprava a využitie pri výskume rakoviny (*Biochips and biosensors for glycorecognition, their development, preparation and application in cancer research*)

Zodpovedný riešiteľ: Jaroslav Katrlík
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0753
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 48800 €

29.) 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: 0
Čerpané financie: APVV: 2608 €

30.) 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: 0
Čerpané financie: APVV: 5000 €

31.) Syntetická biológia pre produkciu nových biologicky aktívnych látok u streptomycét (*Synthetic biology for the production of new biologically active compounds in streptomycetes*)

Zodpovedný riešiteľ: Ján Kormanec
Zodpovedný riešiteľ v organizácii SAV: Mária Matulová
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0410
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV

Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: APVV: 12174 €

32.) Posttranslačné modifikácie v mitochondriách a ich úloha v patologických procesoch
(Post-translation modifications in mitochondria and their role in pathological processes)

Zodpovedný riešiteľ: Eva Kutejová
 Zodpovedný riešiteľ v organizácii SAV: Ján Mucha
 Trvanie projektu: 1.7.2016 / 30.6.2020
 Evidenčné číslo projektu: APVV-15-0375
 Organizácia je koordinátorom projektu: nie
 Koordinátor: Ústav molekulárnej biológie SAV
 Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: APVV: 21000 €

33.) 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
 Počet spoluriešiteľských inštitúcií: 0
 Čerpané financie: APVV: 2772 €

34.) Vývoj nových teoretických nástrojov pre predikciu a interpretáciu EPR a NMR parametrov
(Developing new theoretical tools for prediction and interpretation of EPR and NMR parameters)

Zodpovedný riešiteľ: Vladimír Malkin
 Zodpovedný riešiteľ v organizácii SAV: Miloš Hricovíni
 Trvanie projektu: 1.7.2016 / 30.6.2020
 Evidenčné číslo projektu: APVV-15-0726
 Organizácia je koordinátorom projektu: nie
 Koordinátor: Ústav anorganickej chémie SAV
 Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: APVV: 4500 €

35.) Možná duálna funkcia P-glykoproteínu pri viacliekovej rezistencii leukemických buniek: efluxná pumpa a regulačný proteín (*Possible dual function of P-glycoprotein in leukemia cells: efflux pump and regulatory protein*)

Zodpovedný riešiteľ: Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV: Jaroslav Katrlík
Trvanie projektu: 1.7.2015 / 31.10.2018
Evidenčné číslo projektu: APVV-14-0334
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 4750 €

36.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 29046 €

37.) Nové detekčné protokoly na spoľahlivú diagnostiku rakoviny prostaty (*A Novel Detection protocols for REliable prostate cancer assays*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 12.11.2018 / 31.12.2018
Evidenčné číslo projektu: PP-H2020-18-0043
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 2000 €

38.) Prognóza rakoviny efektívnymi skríningovými stratégiami (*PROgnosis of Cancer via Efficient Screening Strategies*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 12.11.2018 / 31.12.2018
Evidenčné číslo projektu: PP-H2020-18-0042
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 2000 €

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

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 12.11.2018 / 31.12.2018
Evidenčné číslo projektu: PP-H2020-18-0041
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 2000 €

40.) Zbierka kultúr kvasiniek ako biobanka pre budúce generácie (*Culture Collection of Yeasts as a biobank for future generations*)

Zodpovedný riešiteľ: Renáta Vadkertiová
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0744
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 29356 €

Programy: Iné projekty

41.) Skorá diagnostika kolorektálneho karcinómu a rakoviny semeníkov glykoprofiláciou (*Early diagnostics of colorectal and testicular cancer by glycoprofiling*)

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.12.2018 / 31.12.2020
Evidenčné číslo projektu: 2018/23-SAV-1
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských inštitúcií: 0

inštitúcií:
 Čerpané financie: 0

Programy: SASPRO

42.) Štúdium reakčného mechanizmu glykozyltransferáz použitím ab initio molekulovej dynamiky ako pomôcky pri návrhu inhibítorov (*Study of reaction mechanism of glycosyl transferases using ab initio molecular dynamics as a tool for design of inhibitors*)

Zodpovedný riešiteľ: Stanislav Kozmon
Trvanie projektu: 1.7.2015 / 30.6.2018
Evidenčné číslo projektu: SASPRO 0005/01/02
Organizácia je áno
koordinátorom projektu:
Koordinátor: Chemický ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: EC Brussels: 24641 €
 SAV: 36962 €

Príloha C**Publikačná činnosť organizácie (generovaná z ARL)****ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

- ABC01 FILIP, Jaroslav - TKÁČ, Ján. Enzymatic electrodes: Characteristics, fabrication methods, and applications. In WANDEL, Klaus (ed.). Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry. - Oxford : Elsevier, 2018, vol. 7.1, p. 190-199. ISBN 978-0128097397.
- ABC02 KRAJČOVIČ, Tomáš - BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - 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 Baeyer-Villiger monooxygenase by immobilization. In GRUNWALD, Peter (ed.). Immobilized Biocatalysts. - Basel, Switzerland : MDPI, 2018. ISBN 978-3-03897-318-8.
- ABC03 TKÁČ, Ján - FILIP, Jaroslav - KASÁK, Peter. Microdetectives: Fundamentals, fabrication and applications of electrochemical microbial biosensors. In WANDEL, Klaus (ed.). Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry. - Oxford : Elsevier, 2018, vol. 7.1, p. 337-349. ISBN 978-0128097397.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 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. (2.616 - IF2017). (2018 - Current Contents). ISSN 1359-5113.
- ADCA02 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. (2.303 - IF2017). (2018 - Current Contents). ISSN 0032-0862.
- ADCA03 BELLA, Maroš - ŠESTÁK, Sergej - MONCOL, Ján - KOÓŠ, Miroslav - POLÁKOVÁ, Monika. Synthesis of 1,4-imino-L-lyxitols modified at C-5 and their biochemical evaluation as selective inhibitors of GH38 α -mannosidases. In Beilstein Journal of Organic Chemistry, 2018, vol. 14, p. 2156-2162. (2.330 - IF2017). (2018 - Current Contents). ISSN 1860-5397.
- ADCA04 BORTŇÁK, Dušan - MILATA, Viktor - ŠOFRANKO, Jakub - VÉGH, Daniel - FRONC, Marek - HERICH, Peter - KOŽÍŠEK, Jozef - HRIVNÁKOVÁ, Viera - ŠORAL, Michal. On the formation of uncommon pyrazoloazepines from 5-aminopyrazoles as by-products in the Clauson-Kaas reaction. In Journal of Molecular Structure, 2018, vol. 1166, p. 243-251. (2.011 - IF2017). (2018 - Current Contents). ISSN 0022-2860.
- ADCA05 BREIEROVÁ, Emília - ČERTÍK, Milan - MÁROVÁ, Ivana - VADKERTIOVÁ, Renáta. The effect of Zn(II) ions and reactive oxygen on the uptake of zinc and production of carotenoids by selected red yeasts. In Chemistry and Biodiversity, 2018, vol. 15, iss. 6, p. e1800069. (1.617 - IF2017). (2018 - Current Contents). ISSN 1612-1872.
- ADCA06 BRODACZEWSKA, Natalia - KOŠTÁLOVÁ, Zuzana - UHRÍN, Dušan. (3, 2)D 1H, 13C BIRD_rX-HSQC-TOCSY for NMR structure elucidation of mixtures:

- application to complex carbohydrates. In Journal of Biomolecular NMR, 2018, vol. 70, p. 115-122. (2.534 - IF2017). (2018 - Current Contents).
- ADCA07 BYSTRICKÝ, Peter - MACHOVÁ, Eva - BYSTRICKÝ, Slavomír. NMR comparison of hyphal and yeast *Candida albicans* serotype B mannans. In European Biophysics Journal, 2018, vol. 47, p. 591-596. (1.935 - IF2017). (2018 - Current Contents). ISSN 0175-7571.
- ADCA08 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. (3.457 - IF2017). (2018 - Current Contents). ISSN 0753-3322.
- ADCA09 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. (3.433 - IF2017). (2018 - Current Contents). ISSN 1047-8477.
- ADCA10 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. (2.779 - IF2017). (2018 - Current Contents). ISSN 0049-3848.
- ADCA11 GLIGORIJEVIĆ, Nikola - KRIŽÁKOVÁ, Martina, Zámorová - 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. (3.909 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- ADCA12 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. (5.158 - IF2017). (2018 - Current Contents). ISSN 0144-8617.
- ADCA13 HALAJ, Michal - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, 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. (3.909 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- ADCA14 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. (3.098 - IF2017). (2018 - Current Contents). ISSN 1420-3049.
- ADCA15 CHOCHOLOVÁ, Erika, Došeková - BERTÓK, Tomáš - LORENCOVÁ, Lenka - HOLAZOVÁ, Alena, Šedivá - FARKAŠ, Pavol - VIKARTOVSKÁ, Alica, Welwardová - 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. (5.667 - IF2017). (2018 - Current Contents). ISSN 0925-4005.
- ADCA16 CHOCHOLOVÁ, Erika, Došeková - BERTÓK, Tomáš - JÁNÉ, Eduard - LORENCOVÁ, Lenka - HOLAZOVÁ, Alena, Šedivá - BELICKÁ, Ľudmila, Kľuková - BELICKÝ, Štefan - MISLOVIČOVÁ, Danica - VIKARTOVSKÁ, Alica, Welwardová - 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. (2.926 - IF2017). (2018 - Current Contents). ISSN 0009-8981.
- ADCA17 JABLONICKÁ, Veronika - ZIEGLER, Jorg - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana - HEILMANN, Ingo - OBLOŽINSKÝ, Marek - HEILMANN, Mareike. Inhibition of phospholipases influences the metabolism of wound-induced benzylisoquinoline alkaloids in *Papaver somniferum* L. In *Journal of Plant Physiology*, 2018, vol. 223, p. 1-8. (2.833 - IF2017). (2018 - Current Contents). ISSN 0176-1617.
- ADCA18 JÁNOŠ, Pavel - KOZMON, Stanislav - TVAROŠKA, Igor - KOČA, Jaroslav. How mycobacterium tuberculosis galactofuranosyltransferase 2 (Glt2) 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. (5.160 - IF2017). (2018 - Current Contents). ISSN 0947-6539.
- ADCA19 JANTOVÁ, Soňa - PAULOVICOVÁ, Ema - PAULOVICOVÁ, 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. (2.873 - IF2017). (2018 - Current Contents). ISSN 0171-2985.
- ADCA20 JESZEOVÁ, Lenka - BAUEROVÁ-HLINKOVÁ, Vladena - BARÁTH, Peter - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico. Biochemical and proteomic characterization of the extracellular enzymatic prepare of *Exiguobacterium undae*, suitable for efficient animal glue removal. In *Applied Microbiology and Biotechnology*, 2018, vol. 102, p. 6525-6536. (3.340 - IF2017). (2018 - Current Contents). ISSN 0175-7598.
- ADCA21 KARNIŠOVÁ, Elena, Potocká - MASTIHUBOVÁ, Mária - ČIČOVÁ, Iveta - MASTIHUBA, Vladimír. New assay of alfa-L-rhamnosidase. In *Monatshefte für Chemie*, 2018, vol. 149, p. 167-174. (1.285 - IF2017). (2018 - Current Contents). ISSN 0026-9247.
- ADCA22 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. (3.646 - IF2017). (2018 - Current Contents). ISSN 0305-7364.
- ADCA23 KOLLÁROVÁ, Karin - KAMENICKÁ, Viktória - VIVODOVÁ, 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. (2.833 - IF2017). (2018 - Current Contents). ISSN 0176-1617.
- ADCA24 KOROLENKO, Tatyana A. - JOHNSTON, Thomas P. - MACHOVÁ, Eva - BGATOVA, Nataliya P. - LYKOV, Alexander P. - GONCHAROVA, Natalya V. - NEŠČÁKOVÁ, Zuzana - SHINTYAPINA, Alexandra B. - MAIBORODIN, Igor V. - KARMATSKIKH, O.L. Hypolipidemic effect of mannans from *C. albicans* serotypes A and B in acute hyperlipidemia in mice. In *International Journal of Biological Macromolecules*, 2018, vol. 107, p. 2385-2394. (3.909 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- ADCA25 LÁSZLOVÁ, Katarína - DUDÁŠOVÁ, Hana - OLEJNÍKOVÁ, Petra - HORVÁTHOVÁ, Gabriela - VELICKÁ, Zuzana - HORVÁTHOVÁ, Hana - DERCOVÁ, Katarína. The application od 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. (1.769 - IF2017). (2018 - Current

- Contents). ISSN 0049-6979.
- ADCA26 LEE, Jisun - LEE, Seul - SYNYTSYA, 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. (2.328 - IF2017). (2018 - Current Contents). ISSN 1436-2228.
- ADCA27 LORENCOVÁ, Lenka - BERTÓK, Tomáš - FILIP, Jaroslav - JERIGOVÁ, Monika - VELIČ, Dušan - KASÁK, Peter - MAHMOUD, Khaled A. - TKÁČ, Ján. Highly stable Ti3C2Tx (MXene)/Pt nanoparticles-modified glassy cyrbon electrode for H2O2 and small molecules sensing applications. In Sensors and Actuators B, 2018, vol. 263, p. 360-368. (5.667 - IF2017). (2018 - Current Contents). ISSN 0925-4005.
- ADCA28 MIČOVÁ, 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. (4.439 - IF2017). (2018 - Current Contents). ISSN 0169-4332.
- ADCA29 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. (5.239 - IF2017). (2018 - Current Contents). ISSN 0738-8551.
- ADCA30 MOSNÁČEK, Jaroslav - POPELKA, Anton - OSÍČKA, 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. (5.091 - IF2017). (2018 - Current Contents). ISSN 0021-9797.
- ADCA31 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. (5.179 - IF2017). (2018 - Current Contents). ISSN 1945-4589.
- ADCA32 ONDRUŠKOVÁ, Nina - HONZÍK, Tomáš - KOLÁŘOVÁ, Hana - PAKANOVÁ, Zuzana - MUCHA, Ján - ZEMAN, Jiří - HANSÍKOVÁ, Hana. Aberrant apolipoprotein C-III glycosylation in glycogen storage disease type III and IX. In Metabolism: Clinical and Experimental, 2018, vol. 82, p. 135-141. (5.963 - IF2017). (2018 - Current Contents). ISSN 0026-0495.
- ADCA33 ORAVEC, Michal - SASINKOVÁ, Vlasta - TOMANOVÁ, Katarína - GÁL, Lukáš - PARCIOVÁ, Silvia - HUCK, Christian W. In-situ surface-enhanced Raman scattering and FT-Raman spectroscopy of black prints. In Vibrational Spectroscopy, 2018, vol. 94, p. 16-21. (1.363 - IF2017). (2018 - Current Contents). ISSN 0924-2031.
- ADCA34 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. (3.340 - IF2017). (2018 - Current Contents). ISSN 0175-7598.
- ADCA35 REVAJOVÁ, Viera - HERICH, Robert - LEVKUT, Martin - ŽITŇAN, Rudolf - ALBRECHT, Elke - RÖNTGEN, Monika - LEVKUTOVÁ, Mária - KARAFOVÁ, Viera - ŠEVČÍKOVÁ, Zuzana - PAULOVICHOVÁ, Ema - LEVKUT, Mikuláš.

- Immunolocalization of Na⁺/K⁺-ATPase and proliferative activity of enterocytes after administration of glucan in chickens fed T-2 toxin. In *Acta Veterinaria* (Brno), 2018, vol. 87, p. 371-377. (0.422 - IF2017). (2018 - Current Contents). ISSN 0001-7213.
- ADCA36 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. (5.738 - IF2017). (2018 - Current Contents). ISSN 1525-7797.
- ADCA37 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. (5.399 - IF2017). (2018 - Current Contents). ISSN 1549-9618.
- ADCA38 SLÁDEK, Vladimír. A note on the interpretation of the efficiency centrality. In *Communications in Nonlinear Science and Numerical Simulation*, 2018, vol. 61, p. 225-229. (3.181 - IF2017). (2018 - Current Contents). ISSN 1007-5704.
- ADCA39 SLUSNA, Lenka - HAIZER, Ludovit - JÁNÉ, 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. (1.665 - IF2017). (2018 - Current Contents). ISSN 1053-0509.
- ADCA40 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. (2.100 - IF2017). (2018 - Current Contents). ISSN 0959-3993.
- ADCA41 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. (4.946 - IF2017). (2018 - Current Contents). ISSN 0308-8146.
- ADCA42 SEDIVÁ, Mária - LAHO, Maroš - KOHÚTOVÁ, 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. (3.098 - IF2017). (2018 - Current Contents). ISSN 1420-3049.
- ADCA43 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. (3.009 - IF2017). (2018 - Current Contents). ISSN 1860-7179.
- ADCA44 ŠUCHOVÁ, Katarína - Kolenová - 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. (3.118 - IF2017). (2018 - Current Contents). ISSN 0003-9861.
- ADCA45 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. (5.399 - IF2017).

- (2018 - Current Contents). ISSN 1549-9618.
- ADCA46 VIVODOVÁ, Zuzana, Vatehová - 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. (2.800 - IF2017). (2018 - Current Contents). ISSN 0944-1344.
- ADCA47 YAMAMOTO, Yuta - TAKEI, Kenta - ARULMOZHIRAJA, Sundaram - SLÁDEK, Vladimír - MATSUO, Naoya - HAN, Song-lee - 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, pemafibrate: Structural basis for SPPAR α . In Biochemical and Biophysical Research Communications, 2018, vol. 499, p. 239-245. (2.559 - IF2017). (2018 - Current Contents). ISSN 0006-291X.
- ADCA48 ZDURIENČIKOVÁ, Martina - CHOLUJOVÁ, Dana - DURAJ, Jozef - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - KARNIŠOVÁ, Elena, Potocká - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - K LAPÁKOVÁ, Martina - HORVÁTHOVÁ, Eva. Salidroside, a chemopreventive glycoside, diminishes cytotoxic effect of cisplatin in vitro. In Basic & Clinical Pharmacology & Toxicology, 2018, vol. 122, no. 3, p. 346-354. (2.659 - IF2017). (2018 - Current Contents). ISSN 1742-7835.

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 HALAJ, Michal - CHVÁLOVÁ, Beáta - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter. Searching for microalgal species producing extracellular biopolymers. In Chemical Papers, 2018, vol. 72, p. 2673-2678. (0.963 - IF2017). ISSN 0366-6352.
- ADDA02 HRICOVÍNIOVÁ, Zuzana - HRICOVÍN, 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. (0.963 - IF2017). ISSN 0366-6352.
- ADDA03 ŠIMKOVIC, Ivan - KELNAR, Ivan - MENDICHI, Raniero - TRACZ, Adam - FILIP, Jaroslav - BERTÓK, Tomáš - KASÁK, Peter. Interfaces study of all-polysaccharide composite films. In Chemical Papers, 2018, vol. 72, p. 711-718. (0.963 - IF2017). ISSN 0366-6352.

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 FARKAŠ, Vladimír - VADINOVÁ, Kristína, Kováčová - STRATILOVÁ, Eva. Polysaccharide transglycosylases: A survey of assay methods. In Journal of Plant Cell Development, 2018, vol. 1, p. 15-22.

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

- ADFB01 CHMIELEWSKÁ, Eva - HAMADA, B.I.Hawash - GÓROVÁ, Renáta - MAJZLAN, Juraj - NAVENKA, Rajic - SASINKOVÁ, Vlasta - PUŠKELOVÁ, Ľubica. Valorizácia prírodných, resp. odpadových produktov pri odstraňovaní farmaceutík z vôd. In Vodohospodársky spravodajca. - Výskumný ústav vodného hospodárstva, 2018, vol. 61, p. 33-36.

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

- ADMA01 KOSZAGOVÁ, Romana, Repiská - KRAJČOVIČ, Tomáš - PALENČÁROVÁ, Klaudia, Talafová - PÄTOPRSTÝ, Vladimír - VIKARTOVSKÁ, Alica, Welwardová - POSPÍŠKOVÁ, Kristyna - ŠAFARÍK, Ivo - NAHÁLKA, Jozef. Magnetization of active inclusion bodies: comparison with centrifugation in repetitive biotransformations. In Microbial Cell Factories, 2018, vol. 17, p. 139-146. (3.831 - IF2017). ISSN 1475-2859.

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

- ADMB01 BALALYKIN, Nikolay I. - HURAN, Jozef - NOZDRIN, Mikhail A. - FESCHENKO, Anastasiya A. - KOBZEV, Alexander P. - SASINKOVÁ, Vlasta - BOHÁČEK, Pavol - ARBET, Juraj. Reactive magnetron sputtering of N-doped carbon thin films on quartz glass for transmission photocathode applications. In Journal of Physics: Conference Series, 2018, vol. 992, no. 012031. ISSN 1742-6588.
- 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. 699-700. ISSN 2191-1630.
- ADMB03 CHMIELEWSKÁ, Eva - HAWASH, Hamada B.I. - GÓROVÁ, Renáta - KOVALÁKOVÁ, Mária - MAJZLAN, Juraj - SASINKOVÁ, Vlasta - HUDEC, Pavol. Natural resources and waste products in aquatic media remediation and diclofenac uptake. In Current Green Chemistry, 2018, vol. 5, p. 114-121. ISSN 2213-3461.

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-Azidohexyl 2,3,4,6-tetra-O-acetyl- β -D-glucopyranoside. In VOGEL, Christian - MURPHY, Paul (eds.). Carbohydrate Chemistry: Proven Synthetic Method. Vol. 4. - Boca Raton, USA : CRC Press, 2018, p. 183-188. ISBN 978-1-4987-2691-7.

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 BLEHA, Roman - BRINDZA, Ján - CAPEK, Peter - SINICA, Andrej. Isolation of polysaccharide and sporopollenin from sunflower bee pollen cell walls. In ŘÁPKOVÁ, Radmila - HINKOVÁ, Andrea - ČOPÍKOVÁ, Jana - ŠÁRKA, Evžen (eds.). Proceedings of the 14th International Conference on Polysaccharides-Glycoscience, 7-9 November 2018, Prague. - Prague : Czech Chemical Society, 2018, p. 31-36. ISSN 2336-6796.
- AFC02 GARAJOVÁ, Soňa - PATEL, Ilababen - LOMASCOLO, Anne - LEGÉE, Frédéric - CÉZARD, Laurent - COTTYN, Betty - LECOURT, Michael L - TAPIN-LINGUA, Sandra - FAULDS, Craig B. - RECORD, Éric - PION, Florian - BAUMBERGER, Stéphanie. Laccase-mediated oligomerization of phenolic extractives: a key mechanism governing the performance of fiberboards. In Proceedings for Poster Presentations: 15th European Workshop on Lignocellulosics and Pulp, June 26-29, 2018, Aveiro, Portugal. - Exico, Portugal : RAIZ - Forest and Paper Research Institute, 2018, p. 231-234.
- AFC03 HROMÁDKOVÁ, Zdenka - KOŠTÁLOVÁ, Zuzana. Ultrasound extraction,

- purification, and physicochemical properties of arabinogalactan from *Larix deciduas* sawdust. In ŘÁPKOVÁ, Radmila - HINKOVÁ, Andrea - ČOPIKOVÁ, Jana - ŠÁRKA, Evžen (eds.). Proceedings of the 14th International Conference on Polysaccharides-Glycoscience, 7-9 November 2018, Prague. - Prague : Czech Chemical Society, 2018, p. 152-156. ISSN 2336-6796.
- AFC04 SUSHYTSKYI, Leonid - BLEHA, Roman - SINICA, Andrej - CAPEK, Peter - ČOPIKOVÁ, Jana - KAŠTÁNEK, Petr. Water-soluble polysaccharides isolated from biomass of chlorophyll-deficient microalgae *Chlorella vulgaris* G11. In ŘÁPKOVÁ, Radmila - HINKOVÁ, Andrea - ČOPIKOVÁ, Jana - ŠÁRKA, Evžen (eds.). Proceedings of the 14th International Conference on Polysaccharides-Glycoscience, 7-9 November 2018, Prague. - Prague : Czech Chemical Society, 2018, p. 385-389. ISSN 2336-6796.

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 BENKO, Mário - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana. Molecular characterization of cytomegalovirus UL144 glycan-deficient mutein recombinantly produced in baculovirus-insect expression system. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 33-39. ISBN 978-80-223-4517-0.
- AFD02 DEVEROVÁ, Zuzana - KRIŽÁKOVÁ, Martina, Zámorová - FARKAŠ, Pavol - KATRLÍK, Jaroslav - LIŠKOVÁ, Desana. Interakcie galaktoglukománových oligosacharidov s vybranými rastlinnými lektínmi. In Študentská vedecká konferencia PriF UK 2018, 25. apríl 2018, Bratislava: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská ; rec. Alžbeta Blehová, Silvia Bodoríková. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 92-97. ISBN 978-80-223-4517-0.
- AFD03 HAKAROVÁ, Marietta - BUČKO, Marek - KRAJČOVIČ, Tomáš - GEMEINER, Peter. Imobilizácia celobunkových biokatalyzátorov pre produkciu bioaktívnych látok pomocou Baeyer-Villigerovej biooxidácie. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská ; rec. Alžbeta Blehová, Silvia Bodoríková. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 157-162. ISBN 978-80-223-4517-0.
- AFD04 HORVÁTHOVÁ, Ágnes - VADKERTIOVÁ, Monika - VYŠEHRADSKÁ, Laura - ČURILLOVÁ, Natália - STRATILOVÁ, Barbora - DUDÁŠOVÁ, Hana. Využitie MALDI-TOF analýzy pri identifikácii kvasiniek osídľujúcich rôzne prostredia. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 864-869. ISBN 978-80-223-4517-0.
- AFD05 HRIVNÁKOVÁ, Viera - PÄTOPRSTÝ, Vladimír. Stanovenie celkového obsahu sacharidov a urónových kyselín v kvetoch a plodoch rastliny *Siraitia grosvenori*. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 870-881. ISBN 978-80-223-4517-0.
- AFD06 HRIVNÁKOVÁ, Viera - PÄTOPRSTÝ, Vladimír. Hmotnostná spektrometria parciálne metylovaných alditol acetátov z polysacharidov izolovaných z rastliny

- Siraitia grosvenori. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 876-881. ISBN 978-80-223-4517-0.
- AFD07 HURAN, Jozef - BOHÁČEK, Pavol - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, Alexander P. - KOVÁČOVÁ, Eva - SEKÁČOVÁ, Mária - ARBET, Juraj. Amorphous silicon carbide films wit wide range of phosphorus concentration: Structural and electrical properties. In Proceedings of ADEPT 6th International Conference on Advances in Electronic and Photonic Technologies, Tatranská Lomnica, High Tatras, Slovakia, June 18-21, 2018. - Bratislava : Institute of Electronics and Photonics, FEI STU in Bratislava, 2018, p. 216-219. ISBN 978-80-554-1450-8.
- AFD08 HURAN, Jozef - BALALYKIN, Nikolay Y. - NOZDRIN, Mikhail A. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, Alexander P. - KOVÁČOVÁ, Eva - LAURENČÍKOVÁ, Agáta - ARBET, Juraj. Electron emission from N-doped carbon-based very thin films prepared by reactive magnetron sputtering. In NEVRELA, Juraj - MIČJAN, Michal - NOVOTA, Miroslav - KOVÁČ, Jaroslav, jr. (eds.). Proceedings of the 6th International Conference on Advances in Electronic and Photonic Technologies (ADEPT 2018), June 18-21, 2018, Tatranská Lomnica, High Tatras, Slovakia. Bratislava: Institute of Electronics and Photonics, FEI STU, 2018, p. 13-16. ISBN 978-80-554-1450-8.
- AFD09 HURAN, Jozef - BALALYKIN, Nikolay I. - KOVÁČOVÁ, Eva - NOZDRIN, Mikhail A. - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - KOBZEV, Alexander P. - LAURENČÍKOVÁ, Agáta. Photo-induced electron emission properties of N-doped carbon-based very thin films. In DONOVAL, Daniel - BREZA, Juraj - VAVRINSKÝ, Erik. (eds.). Proceedings: ASDAM 2018: The Twelfth International Conference on Advanced Semiconductor Devices and Microsystems, October 21-24, 2018, Smolenice, Slovakia. Bratislava: IEEE, 2018, article no. 8544605, p. 65-68. ISBN 978-1-5386-7488-8.
- AFD10 JAKUBČINOVÁ, Jana - BARÁTH, Marek - HIRSCH, Ján - TVAROŠKA, Igor. Potenciálne inhibitory ľudských glykozyltransferáz. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 888-892. ISBN 978-80-223-4517-0.
- AFD11 JURČÍK, M. - BORBOVÁ, Marianna - RUBINTOVÁ, Veronika - MIKOLÁŠKOVÁ, Barbora - ČIPÁKOVÁ, Ingrid - BELLOVÁ, Jana - BARÁTH, Peter - ČIPÁK, Ľuboš. Identification of G-patch RNA-binding protein interaction partners. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editor Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 272-277. ISBN 978-80-223-4517-0.
- AFD12 KOSZAGOVÁ, Romana, Repiská - NAHÁLKA, Jozef. Recyklovanie aktívnych inklúzných teliesok pomocou magnetických častíc. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 1034-1039. ISBN 978-80-223-4517-0.
- AFD13 LABANCOVÁ, Eva - KOLLÁROVÁ, Karin - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. The Cd²⁺ tolerance motive of poplar callus is modified by the presence of Si in the cultivation medium. In Študentská vedecká konferencia PriF

- UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 361-366. ISBN 978-80-223-4517-0.
- AFD14 STRATILOVÁ, Barbora - ŠESTÁK, Sergej - KOZMON, Stanislav - HORVÁTHOVÁ, Ágnes. Potenciál enzýmu xyloglukánendotransglykozyláza (XET) katalyzovať transfer fragmentov xyloglukánu do pektínu. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 1070-1075. ISBN 978-80-223-4517-0.
- AFD15 STRATILOVÁ, Barbora - KOZMON, Stanislav. Analýza stability reakčného komplexu xyloglukánendotransglykozyláza (XET) - donor - akceptor dokovaním substrátov do aktívneho miesta enzýmu a simuláciami molekulovou dynamikou. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 1064-1069. ISBN 978-80-223-4517-0.
- AFD16 ŠÍPOŠOVÁ, Kristína - VIVODOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana. Vplyv kyseliny indolyl-3-maslovej na zloženie bunkových stien koreňa kukurice siatej (*Zea mays* L.). In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 620-624. ISBN 978-80-223-4517-0.
- AFD17 UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - CEPÁK, Vladimír - LUKAVSKÝ, Jaromír - CAPEK, Peter. Extracelulárne biopolyméry produkované cyanobaktériami - skríningové štúdium. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editor Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 1081-1085. ISBN 978-80-223-4517-0.
- AFD18 UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - BEHÚLOVÁ, Darina - ŠALINGOVÁ, Anna. Deficit aminoacylázy I - diagnostika pomocou NMR spektroskopie. In Študentská vedecká konferencia PriF UK 2018: Zborník recenzovaných príspevkov. Editori: Michal Galamboš, Eva Viglašová, Vladimíra Džugasová, Andrea Ševčovičová, Adela Bobovská. - Bratislava : Univerzita Komenského v Bratislave vo Vydavateľstve UK, 2018, s. 1086-1090. ISBN 978-80-223-4517-0.

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

- AFE01 KATRLÍK, Jaroslav. Glycoprofiling by lectin-based protein microarrays for biomedical applications. In Abstract Book: Microarrays and Nanoarrays in Microfluidics and Multiplex Diagnostics within IVD and POCT (MMM), 11- 12 October 2018, Vienna. - 2018, p. 17.
- AFE02 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - BELICKÁ, Ľudmila, Kľuková - HOLAZOVÁ, Alena, Šedivá - JÁNÉ, Eduard - CHOCHOLOVÁ, Erika, Došeková - KVĚTOŇ, Filip - KASÁK, Peter. Lectin and glycan biosensors applied in diagnostics. In The 43rd FEBS Congress, 7-12 July, 2018, Prague, Czech Republic. In: FEBS Open Bio, 2018, vol. 8, suppl. S1, p. 46-47, abstract no. S.16-2.

AFF Abstrakty pozvaných príspevkov z domácich konferencií

- AFF01 PETRUŠ, Ladislav - PRIBULOVÁ, Božena - SMRTIČOVÁ, Hana - VLČKOVÁ, Silvia - HRIVNÁKOVÁ, Viera - PETRUŠOVÁ, Mária. Toward synthesis of dodeca-cavitane, sugar-based analogue of dodecahedrane possessing a cavity for hydrogen bonding. In ORINÁKOVÁ, Renáta (ed.). Book of Abstracts: New trends in chemistry: Trends in chemistry, research and education at Faculty of Sciences of P. J. Šafárik University, November 9, 2018, Košice. - Košice : Pavol Jozef Šafárik University, 2018, p. 6. ISBN 978-80-8152-666-4.

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 BALALYKIN, Nikolay I. - HURAN, Jozef - NOZDRIN, Mikhail A. - FESHCHENKO, Anastasiya - KOBZEV, Alexander P. - SASINKOVÁ, Vlasta. Reactive magnetron sputtering of N-doped DLC thin films on quartz glass for transmission photocathode applications. In DIMITROVA, Miglena - DAMYANOVA, Milena - GHELEV, Chavdar. (eds.). Program Abstracts: 20th International Summer School on Vacuum, Electron and Ion Technologies (VEIT 2017), 25-29 September 2017, Sozopol, Bulgaria. - Sofia : Institute of Electronics, Bulgarian Academy of Sciences, 2017, p. 121.
- AFG02 BENKO, Mário - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana. Preliminary characterization of clinically significant cytomegalovirus UL144 glycoprotein. In Materials Structure in Chemistry, Biology, Physics and Technology, 2018, vol. 25, no. 3a, p. a47. ISSN 1211-5894. (Advanced Methods in Macromolecular Crystallization VIII: FEBS Practical Course).
- AFG03 BENKO, Mário - NEMČOVIČ, Marek - NEMČOVIČOVÁ, Ivana. Heterologous expression, purification and preliminary characterization of HCMV immunoevasin UL144. In Power of Viruses: Programme and Abstracts. - Zagreb, Croatia : Croatian Microbiology Society, 2018, p. 108. ISBN 978-953-7778-15-6.
- AFG04 BIELY, Peter - FRANOVÁ, Lucia - PUCHART, Vladimír. Biochemical basis of proliferation of Aureobasidium on wood: Novel enzymes of the genus. In International Specialized Symposium on Yeasts ISSY34, Bariloche, Argentina, October 1-4, 2018. - Bariloche, Argentina, 2018, p. 160-161.
- AFG05 BIELY, Peter. Glucuronoyl esterases: microbial enzymes cleaving bonds between lignin and hemicellulose. In XIII Seminário Brasileiro de Tecnologia Enzimática - ENZITEC 2018, September 16-19, 2018, Florianópolis, Santa Catarina, Brasilia. Florianópolis: Univesidade Federal de Santa Catarina, 2018. - Florianopolis, 2018, 2018, p. non.
- AFG06 BREIEROVÁ, Emília - ŠOLTÉSOVÁ, Dominika - STRATILOVÁ, Barbora - SASINKOVÁ, Vlasta. Analysis of yeast exoproducts related to antifungal activity of Metschnikowia pulcherrima. In DZIK, Petr (ed.). Book of Abstracts: 7th Meeting on Chemistry and Life 2018, September 12-14, 2018, Brno. - Brno : Vysoké učení technické v Brně, 2018, p. 59. ISBN 978-80-214-5488-0.
- AFG07 DOVINOVÁ, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene - MAJZÚNOVÁ, Miroslava - KVANDOVÁ, Miroslava - ČAČÁNYIOVÁ, Soňa. Changes of ADMA production, homocysteine level and improvement of redox status in plasma of hypertensive animals in chronic treatment of 7-nitroindazole. In Free Radical Biology and Medicine, 2018, vol. 120, suppl. 1, p. S115-S116. ISSN 0891-5849. (19th SFRR Biennial Meeting, June 4-7, 2018, Lisbon, Portugal).
- AFG08 DUDÁŠOVÁ, Hana - BALAŠČÁKOVÁ, Martina - VADKERTIOVÁ, Renáta. Diversity and enzymatic activities of soil yeasts associated with fruit trees. In Tomáškovy dny 2018 : XXVII. konference mladých mikrobiológů. - Brno :

- Masarykova univerzita, 2018, s. 71. ISBN 978-80-210-8963-1.
- AFG09 DUDÁŠOVÁ, Hana - VADKERTIOVÁ, Renáta. Diversity of yeasts colonizing aboveground plant organs of fruit trees and the soil related to these trees. In DZIK, Petr (ed.). Book of Abstracts: 77th Meeting on Chemistry and Life 2018, September 12-14, 2018, Brno. - Brno : Vysoké učení technické v Brně, 2018, p. 63. ISSN 978-80-2014-5488-0.
- AFG10 HALAJ, Michal - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter. Extracellular biopolymers produced by Dictyosphaerium family. In Proceedings: 10th Asian Community of Glycoscience and Glycotechnology, November 18-21, 2018. - Taiwan : College of Medicine National Cheng Kung University, 2018, p. B05.
- AFG11 HALAJ, Michal - TURJAN, Jozef - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír - CAPEK, Peter. Microalgae as producers of extracellular biopolymers. In Sborník příspěvků: 70. sjezd českých a slovenských chemiků, 9.-12. září 2018, Zlín, Česká republika. In Czech Chemical Society Symposium Series. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, p. 430. ISSN 2336-7202.
- AFG12 HEGER, Vladimír - RILLA-RAHNASTO, Minna - VISKUPIČOVÁ, Jana - ZOOFISHAN, Zoofishan - HUNYADI, Attila - HORÁKOVÁ, Ľubica - MASTIHUBOVÁ, Mária - KAKKONEN-LAHTELA, Maija. Modulation of SIRT6 deacetylation activity by flavonoid derivatives. In Abstracts Book: COST Action CM1407, 5th MC/WG Meeting: Challenging Organic Syntheses Inspired by Nature - From Natural Products Chemistry to Drug Discovery, March 1-2, 2018, Salini Resort, Malta. Msida: COST, 2018, p. 38.
- AFG13 HORVÁTHOVÁ, Ágnes - ČURILLOVÁ, Natália - VADKERTIOVÁ, Monika - VYŠEHRADSKÁ, Laura - MÁROVÁ, Ivana - DUDÁŠOVÁ, Hana - STRATILOVÁ, Barbora. Maldi TOF analysis for verification of collection yeasts and classification of new isolates. In DZIK, Petr (ed.). Book of Abstracts: 77th Meeting on Chemistry and Life 2018, September 12-14, 2018, Brno. - Brno : Vysoké učení technické v Brně, 2018, p. 65. ISBN 978-80-2014-5488-0.
- AFG14 HRICOVÍNI, Michal - HRICOVÍNI, Miloš. Unusual conformational equilibria in a complex, salicin-type glycoconjugate. In Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. - Lisbon : Sociedade Portuguesa de Química, 2018, p. 512.
- AFG15 HRICOVÍNI, Michal. Photochemically-induced anti-syn isomerization of quinazolinone-derived Schiff's bases: EPR, NMR and DFT analysis. In Program and Book of Abstracts: CTB9 Chemistry towards biology : biomolecules as potential drugs. - Budapest : Hungarian Chemical Society, 2018, p. PhD-3. ISBN 978-963-9970-90-8.
- AFG16 HRICOVÍNI, Miloš - HRICOVÍNI, Michal. Theoretical analysis of 3D structure and high-resolution NMR parameters in sulphated tetrasaccharides. In Program and Book of Abstracts: CTB9 Chemistry towards biology: biomolecules as potential drugs. - Budapest : Hungarian Chemical Society, 2018, p. P-13. ISBN 978-963-9970-90-8.
- AFG17 HRICOVÍNIOVÁ, Zuzana. Surfactants of biological origin: the role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. - Lisbon : Sociedade Portuguesa de Química, 2018, p. 431.
- AFG18 JAKUBČINOVÁ, Jana - BARÁTH, Marek - HIRSCH, Ján - TVAROŠKA, Igor. Stabilita a príprava potenciálnych inhibítorov ľudských glykozyltransferáz. In Czech Chemical Society Symposium Series 5: 70. sjezd českých a slovenských chemických společností, Zlín, 9.-12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 2L-06, p. 342. ISSN 2336-7202.

- AFG19 KARNIŠOVÁ, Elena, Potocká - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. Enzymatic glycosylations of tyrosol and hydroxytyrosol. In Book of Abstracts: COST Action FP1306 4th Workshop & 5th MC Meeting, March 12-14, 2018, Thessaloniki, Greece. Thessaloniki: Aristotle University of Thessaloniki, 2018, p. 71, O-44.
- AFG20 KARNIŠOVÁ, Elena, Potocká - MASTIHUBA, Vladimír - ČIČOVÁ, Iveta - MASTIHUBOVÁ, Mária. Regioselective rutinoylation of tyrosol with a plant biocatalyst. In Book of Abstracts: COST Action CM1407 Final Meeting, December 13-14, 2018, San Cristóbal de La Laguna, Tenerife, Canary Islands, Spain. - Tenerife : IPNA-CSIC, 2018, p. 30.
- AFG21 KATRLÍK, Jaroslav - KRIŽÁKOVÁ, Martina, Zámorová - CHUDÁ, Katarína - KOBAYASHI, Yuka - BYSTRICKÝ, Branislav. Glycosylation changes in cancer determined by lectin-based protein microarray. In Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. - Lisbon : Sociedade Portuguesa de Química, 2018, p. 524.
- AFG22 KATRLÍK, Jaroslav - PAKANOVÁ, Zuzana - KRIŽÁKOVÁ, Martina, Zámorová - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - ŠESTÁK, Sergej - BARÁTH, Peter - MUCHA, Ján. Determination of glycosylation defects in congenital disorders of glycosylation: application of lectin-based protein microarray and mass spectrometry approaches. In Book of Abstracts: 2nd GlycoCom and 1st Human Glycome Project Meeting, October 3-6, Dubrovnik, Croatia. - Zagreb : Spektar putovanja, 2018, p. 91-92.
- AFG23 KIM, Yonghyun - PARK, H. - STUHLÍK, J. - STUHLÍKOVÁ, T.H. - JIN, B. - REMEŠ, Zdeněk - MIČOVÁ, Júlia - IM, Chan. Interfacial behaviors of hybrid thin films constituted by organic bulk-heterojunction and amorphous silicon layers. In Book of Abstracts: International Surfaces, Coatings and Interfaces Conference SURFCOAT KOREA 2018, March 28-30, 2018. - Incheon, Korea : Songdo Convencia, 2018, p. 74.
- AFG24 KIM, Younghyun - YAO, Shiyu - LIU, Yi - ZHANG, Hao - REMEŠ, Zdeněk - MIČOVÁ, Júlia - TIAN, Wenjing - IM, Chan. Exciton dynamic s of semiconducting quantum dots. In Proceedings: Global Photovoltaic Conference GPVC 2018, March 14-16, 2018. - Gwangju, Korea : Korea Photovoltaic Society, 2018, p. 91.
- AFG25 KIS, Peter - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária. The synthesis of phenylethanoid diglycosides: osmanthuside H, cuneataside C, decaffeyl verbascoside and their enzymatic phydroxycinnamoylation. In Book of Abstracts: COST Action CM1407 Final Meeting, December 13-14, 2018, San Cristóbal de La Laguna, Tenerife, Canary Islands, Spain. - Tenerife : IPNA-CSIC, 2018, p. P19.
- AFG26 KLUNDA, Tomáš - POLÁKOVÁ, Monika - ŠESTÁK, Sergej - KÓŇA, Juraj. Synthesis of potential inhibitors of Golgi alfa-mannosidase II. In Czech Chemical Society Symposium Series 1: XVIIIth Interdisciplinary Meeting of Young Researchers, May 14-17, 2018, Milovy. - Praha : Czech Chemical Society, 2018, vol. 16, p. 16. ISSN 2336-7202.
- AFG27 KOZMON, Stanislav - TVAROŠKA, Igor. The O-GlcNAc transferase reaction mechanism with modified substrates study by QM/MM molecular dynamics. In Programme Book: 7th JCS Symposium Quantum Chemistry, from Methodology to Applications in Organic and Inorganic Chemistry, Biochemistry and Material Sciences. - Praha : Institute of Organic Chemistry and Biochemistry CAS, 2018, p. P17.
- AFG28 KRAJČOVIČ, Tomáš - HAKAROVÁ, Marietta. Two step immobilization of viable whole-cell Baeyer-Villiger monooxygenase in polyelectrolyte complex beads. In WIMMEROVÁ, Michaela - HOLKOVÁ, Jitka (eds.). Sborník příspěvků: XIX. setkání biochemiků a molekulárních biologů, 13.-14. listopad 2018, Brno, Česká

- AFG29 republika, Brno: Didot, s.r.o., 2018. - Brno, 2018, p. 22. ISBN 978-80-210-9069-9. KVĚTOŇ, Filip - JANSSON, Bo - TKÁČ, Ján. Detekcia tumor asociovanej protilátky GOD3-2C4 glykánovým biosenzorom na báze Tn antigénu. In Czech Chemical Society Symposium Series 5: 70. sjezd českých a slovenských chemických spoločností, Zlín, 9.-12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 3S-09, p. 368. ISSN 2336-7202.
- AFG30 KVĚTOŇ, Filip - TKÁČ, Ján. Application of glycan biosensors in diagnostics. In Book of Abstracts: XVIII. Workshop of Biophysical Chemists and Electrochemists, 12-13 september 2018, Brno. - Brno : Masarykova Univerzita Brno, 2018, p. 30.
- AFG31 LABANCOVÁ, Eva - KOLLÁROVÁ, Karin - VADKERTIOVÁ, Renáta - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. Effect of yeasts on maize exposed to Cd. In Programme and Abstracts: International Conference Plant Abiotic Stress Tolerance V, Vienna, Austria, July 5-6, 2018. - Vienna : VISCEA, 2018, p. 44.
- AFG32 LORENCOVÁ, Lenka. Highly stable Ti3C2tx (Mxene)/Pt nanocomposite modified glassy carbon electrode for sensing application. In Proceedings: NANOCON 2018, October 17-19, 2018, Brno, Czech Republic. - Ostrava : Tanger Ltd., 2018, p. 71.
- AFG33 MELNÍKOVÁ, Eva - TOMČÍKOVÁ, Kornélia - KVĚTOŇ, Filip - TKÁČ, Ján - GÁL, Miroslav. Impedimetrický biosenzor pre detekciu vírusu chrípky. In Czech Chemical Society Symposium Series 5: 70. sjezd českých a slovenských chemických spoločností, Zlín, 9.-12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 4L-03, p. 379. ISSN 2336-7202.
- AFG34 MIČOVÁ, Júlia - REMĚŠ, Zdeněk. Surface-modified zinc oxide nanostructures with conjugated polymer. In Abstract Book: ANM 2018:11th International Conference on Advanced Nano Materials, 18-20 July 2018, University of Aveiro, Portugal. - Aveiro : University of Aveiro, Portugal, 2018, 2018, p. ANM79.
- AFG35 MIŠOVÁ, Ivana - BENKŐ, Zsigmond - BUDIŠ, J. - GAZDARICA, Juraj - STRIEŠKOVÁ, Lucia - SZEMES, Tomáš - BELOVÁ, Jana - BARÁTH, Peter - JURČÍK, Ján - ČIPÁKOVÁ, Ingrid - ČIPÁK, Ľuboš - BÁGEĽOVÁ POLÁKOVÁ, Silvia. Dbp2 is involved in gene expression regulation in the fission yeast *Schizosaccharomyces pombe*. In SKONECZNA, Adrianna - McINTIRE, Justyna (eds.). Book of Abstracts: 9th Central European Genome Stability and Dynamics Meeting, September 13-16, 2018, Warsaw, Poland. - Warsaw : Polish Academy of Sciences, 2018, p. 18. SVI.3.
- AFG36 NEMČOVIČOVÁ, Ivana - BENKO, Mário - NEMČOVIČ, Marek. Site-specific analysis of UL144 protein from human cytomegalovirus highlights its role in virus-mediated immune evasion. In Acta Crystallographica A, 2018, vol. A74, p. e189-e190. ISSN 2053-2733. (Abstracts: ECM31: European Crystallographic Meeting).
- AFG37 PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - PILIŠIOVÁ, Ružena - YASHUNSKY, Dmitry V. - KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. The evaluation of synthetically prepared β -(1 \rightarrow 3)-nonaglycoside as an anti-Candida immune response modifier. In Medical Mycology, 2018, vol. 56, s 132. ISSN 1369-3786. (Abstracts: ISHAM 2018: 20th Congress of the International Society for Human and Animal Mycology, June 30-July 4, 2018, Amsterdam, The Netherlands).
- AFG38 SINICA, Andrej - SUSHYTSKYI, Leonid - CAPEK, Peter - BLEHA, Roman - ČOPIKOVÁ, Jana. Highly branched xylogalactofuranan isolated from biomass of heterotrophic mutant microalga *Chlorella vulgaris* G11. In Book of Abstracts: 29th International Carbohydrate Symposium (ICS 2018), July 14-19, 2018, Lisboa, Portugal. - Lisbon : Sociedade Portuguesa de Química, 2018, p. 554.
- AFG39 SLÁDEK, Vladimír. Think protein? Think network! Graph analysis to reveal physics of protein communication. In Programme Book: 7th JCS Symposium.

- Quantum Chemistry, from Methodology to Applications in Organic and Inorganic Chemistry, Biochemistry and Material Sciences. - Praha : Institute of Organic Chemistry and Biochemistry CAS, 2018, p. OC13.
- AFG40 SLUŠNÁ, Lenka - BONDAREV, Dimitrij - JÁNĚ, Eduard - HAIZER, Ľudovít - DRŽÍK, Milan - SZOCZ, Vojtech - JERIGOVÁ, Monika - VELIČ, Dušan. Absorpčná a fluorescenčná dynamika systému tiofénový kopolymér/fenylovaný fullerén. In Czech Chemical Society Symposium Series 5: 70. sjezd českých a slovenských chemických spoločností, Zlín, 9.-12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 4P-09, p. 394. ISSN 2336-7202.
- AFG41 SPIŠÁKOVÁ, Mária - BELLA, Maroš - MONCOL, Ján - KOŮŠ, Miroslav. Syntéza hybridu (-)-swainsonínu a manostatínu A: nový prístup k syntéze 1-aminokarba-D-lyxofuranóz. In Czech Chemical Society Symposium Series 5: 70. sjezd českých a slovenských chemických spoločností, Zlín, 9.-12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 2P-04, p. 349. ISSN 2336-7202.
- AFG42 TKÁČ, Ján - BERTÓK, Tomáš - LORENCOVÁ, Lenka - BELICKÝ, Štefan - HOLAZOVÁ, Alena - Šedivá - CHOCHOLOVÁ, Erika - Došeková - KVĚTOŇ, Filip - KASÁK, Peter. Nanotechnology for electrochemical (bio)sensing and diagnostics. In Programme Brochure: ICN+T in Brno, Brno, Czech Republic, July 24, 2018. - Prague : C-IN, 2018, p. 159-160.
- AFG43 UHLIARIKOVÁ, Iveta - CHVÁLOVÁ, Beáta - MATULOVÁ, Mária - CAPEK, Peter - CEPÁK, Vladislav - LUKAVSKÝ, Jaromír. Extracellular polymeric substances produced by freshwater cyanobacteria - a screening study. In Proceedings of the 14th International Conference on Polysaccharides-Glycoscience, 7-9 November 2018 Prague. - Praha : Czech Chemical Society, 2018, p. 36. ISBN 978-80-86238-80-7. ISSN 2336-6796.
- AFG44 VIVODOVÁ, Zuzana - Vatehová - KOLLÁROVÁ, Karin - MALOVÍKOVÁ, Anna - LIŠKOVÁ, Desana. Plant cell walls as defence mechanisms against abiotic stress. In Czech Chemical Society Symposium Series 5: 70 sjezd českých a slovenských chemických spoločností, Zlín, 9. - 12. září 2018. - Praha, ČR : Czech Chemical Society, 2018, vol. 16, 6P-07, p. 415. ISSN 2336-7202.
- AFG45 ŽUFANOVA, Zuzana - HOUSER, Josef - KOZMON, Stanislav - MISHRA, Deepti C. - WIMMEROVÁ, Michaela - KOČA, Jaroslav. Importance of CH- π stacking interaction in carbohydrate-protein complexes. In 43rd FEBS Congress, 7-12 July, 2018, Prague, Czech Republic. In FEBS Open Bio, 2018, vol. 8, suppl. S1, p. 385, abstract no. P.17-003-Wed.

AFH Abstrakty príspevkov z domácich konferencií

- AFH01 BREIEROVÁ, Emília - ŠOLTÉSOVÁ, Dominika - STRATILOVÁ, Barbora - SASINKOVÁ, Vlasta. Antifungal activity of *Metschnikowia pulcherrima* against pathogenic yeasts. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 62. ISSN 1336-4839.
- AFH02 ČANIGOVÁ, Nikola - KUNOVÁ, Nina - KERESZTESOVÁ, Barbora - FRANKOVSKÝ, Ján - BELLOVÁ, Jana - BARÁTH, Peter - SCHWARZOVÁ, Lucia - ZDRÁHAL, Zbyněk - PEVALA, Vladimír - NOSEK, Jozef - KUTEJOVÁ, Eva - TOMÁŠKA, Ľubomír. Succinylation as the means of mitochondrial nucleoid dynamics regulation. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 28. ISSN 1336-4839.

- AFH03 DOVINOVÁ, Ima - BARANČÍK, Miroslav - KVANDOVÁ, Miroslava - MAJZÚNOVÁ, Miroslava - HRABÁROVÁ, Eva - JANSEN, Eugene - MEINITZER, Andreas - ČAČÁNYIOVÁ, Soňa. Aberrant redox regulation and development of risk markers in cardiovascular diseases. In Pathophysiology, 2018, vol. 25, no. 3, p. 160-161. ISSN 0928-4680. (8th International Congress of Pathophysiology, 5-8 September 2018, Bratislava, Slovakia).
- AFH04 DOVINOVÁ, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene - BARANČÍK, Miroslav - KVANDOVÁ, Miroslava - MAJZÚNOVÁ, 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.
- AFH05 DUDÁŠOVÁ, Hana - VADKERTIOVÁ, Renáta - BIELY, Peter. Participation of soil yeasts in degradation plant polysaccharides. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 40. ISSN 1336-4839.
- AFH06 DUDÁŠOVÁ, Hana - VADKERTIOVÁ, Renáta. Enzymatic activities of yeasts related to their diversity in soil. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 45. ISSN 1336-4839.
- AFH07 FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - KNEZL, Vladimír - KRIŽÁK, Jakub - BREIEROVÁ, Emília - OKRUHLICOVÁ, Ľudmila. Treatment of moderate inflammation with carotenoids and their effect on connexins expression on left ventricle of the heart. In Program and Book of Abstracts: 5th European Section meeting of the International Academy of Cardiovascular Sciences (IACS-ES) : Advances in Cardiovascular Research: From basic mechanisms to therapeutic strategies, May 23-26, 2018, Smolenice. - Bratislava : VEDA, 2018, s. 77. ISBN 978-80-224-1649-8.
- AFH08 HÁRONIKOVÁ, Andrea - GONOVÁ, Dana - SAMEK, Ota - BREIEROVÁ, Emília - MÁROVÁ, Ivana. Study of lipid production by Metschnikowia yeasts on waste substrates. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 50. ISSN 1336-4839.
- AFH09 HEGER, Vladimír - RAHNASTO-RILLA, Minna - VISKUPIČOVÁ, Jana - ZOOFISHAN, Zoofishan - HUNYADI, Attila - HORÁKOVÁ, Ľubica - MASTIHUBOVÁ, Mária - LAHTELA-KAKKONEN, Maija. Polyphenol derivatives as sirtuin modulators. In Book of Abstracts: VIIth Miniconference of PhD Students: Creating New Connections, 12th June 2018, Bratislava. - Bratislava : Centrum of experimental medicine. Slovak Academy of Sciences, 2018, p. 7.
- AFH10 HORVÁTHOVÁ, Ágnes - ČURILLOVÁ, Natália - STRATILOVÁ, Barbora - MÁROVÁ, Ivana - DUDÁŠOVÁ, Hana. Taxonomic classification of yeasts associated with meadow plants. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 41. ISSN 1336-

- 4839.
- AFH11 HORVÁTHOVÁ, Eva - MASTIHUBA, Vladimír - KARNIŠOVÁ, Elena, Potocká - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - KLAPÁKOVÁ, Martina - MASTIHUBOVÁ, Mária. Insights on the relationship between structure of phenylethanoid glycopyranosides and their activities using cell-free assays and human cells cultured in vitro. In Interdisciplinary Toxicology, 2018, vol. 11, no. 1, p. 68-69. ISSN 1337-6853. (TOXCON 2018: 23rd Interdisciplinary Toxicological Conference, The High Tatras Slovakia, Stará Lesná, June 20-22, 2018).
- AFH12 HORVÁTHOVÁ, Eva - MASTIHUBA, Vladimír - KARNIŠOVÁ, Elena, Potocká - KIS, Peter - GÁLOVÁ, Eliška - ŠEVČOVIČOVÁ, Andrea - KLAPÁKOVÁ, Martina - MASTIHUBOVÁ, Mária. Structure-activity relationship study of phenylethanoid glycopyranosides using cell-free assays and human cells culture in vitro. In ŠEVČOVIČOVÁ, Andrea - KYZEK, Stanislav (eds.). Zborník abstraktov: Genetická konferencia genetickej spoločnosti Gregora Mendela 2018 : 12.-14. 9. 2018 Bratislava. - Bratislava : Univerzita Komenského, 2018, s. 60. ISBN 978-80-223-4545-3.
- AFH13 HRIVNÁKOVÁ, Viera - PÄTOPRSTÝ, Vladimír - JAKUBČINOVÁ, Jana. Porovnanie celkového obsahu sacharidov a urónových kyselín u rastlín Momordica grosvenori a Momordica charantia. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2018: PREVEDA: Interaktívna konferencia mladých vedcov. - Bratislava : Občianske združenie Preveda, 2018, abstrakt č. 1731. ISBN 978-80-972360-2-1.
- AFH14 HRIVNÁKOVÁ, Viera - PÄTOPRSTÝ, Vladimír. Analysis of carbohydrates as a 1-phenyl-3-methyl-5-pyrazolone derivatives by capillary electrophoresis in comparison by high performance liquid chromatography and methylation analysis. In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. - Bratislava : Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 161, P083.
- AFH15 JAKUBČINOVÁ, Jana - BARÁTH, Marek - HRIVNÁKOVÁ, Viera. Saccharide precursors suitable for preparation of potential inhibitors of glycosyltransferases. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2018: PREVEDA: Interaktívna konferencia mladých vedcov. - Bratislava : Občianske združenie Preveda, 2018, abstrakt č. 1745. ISBN 978-80-972360-2-1.
- AFH16 JURČÍK, Ján - LUKÁČOVÁ, Veronika - SIVÁKOVÁ, Barbara - BELLOVÁ, Jana - BARÁTH, Peter - ČIPÁK, Ľuboš. Kvantitatívna fosfoproteomická analýza substrátov CDC2 proteínkinázy. In Chémia a technológie pre život. 20. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou, Bratislava, 7. 11. 2018. - Bratislava : Slovenská chemická knižnica, 2018, p. 107-108. ISBN 978-80-89597-99-4.
- AFH17 JURČÍK, Matúš - BENKŐ, Zsigmond - JURČÍK, Ján - BORBOVÁ, Marianna - RUBINTOVÁ, Veronika - MIKOLÁŠKOVÁ, Barbora - GOFFA, Eduard - BELLOVÁ, Jana - BARÁTH, Peter - BÁGELOVÁ POLÁKOVÁ, Silvia - ČIPÁK, Ľuboš - ČIPÁKOVÁ, Ingrid. Functional analysis of uncharacterized G-patch RNA binding protein. In ŠEVČOVIČOVÁ, Andrea - KYZEK, Stanislav (eds.). Zborník abstraktov: Genetická konferencia genetickej spoločnosti Gregora Mendela 2018 : 12. - 14. 9. 2018 Bratislava. - Bratislava : Univerzita Komenského, 2018, s. 62. ISBN 978-80-223-4545-3.
- AFH18 JURČÍK, Matúš - BORBOVÁ, Marianna - RUBINTOVÁ, Veronika - MIKOLÁŠKOVÁ, Barbora - BELLOVÁ, Jana - BARÁTH, Peter - ČIPÁK, Ľuboš - ČIPÁKOVÁ, Ingrid. Identification of interaction partners of uncharacterized G-

- patch RNA-binding protein. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 52. ISSN 1336-4839.
- AFH19 KÓŇA, Juraj - BOBOVSKÁ, Adela - SLÁDEK, Vladimír. Molecular modeling of an enzymatic mechanism of glycosyltransferases which used a manganese ion co-factor for catalytic activity. In Abstracts: Instruct Ultra. 2nd Structural Biological Meeting, November 15-16, 2018, Bratislava. - Bratislava : Chemický ústav SAV, 2018, p. 12. ISBN 78-971156-6-1.
- AFH20 KOZMON, Stanislav - TVAROŠKA, Igor. Study of the substrate modification influence on the O-GlcNAc transferase reaction mechanism by QM/MM molecular dynamics. In Abstracts: Instruct Ultra. 2nd Structural Biological Meeting, November 15-16, 2018, Bratislava. - Bratislava : Chemický ústav SAV, 2018, p. 21. ISBN 78-971156-6-1.
- AFH21 KRAJČOVIČ, Tomáš - BUČKO, Marek - GEMEINER, Peter. Immobilization of viable whole-cell Baeyer-Villiger monooxygenase in polyelectrolyte complex beads. In BLAHUŠIAK, Marek - MIHAL, Mário (eds.): Proceedings of the 45th International Conference of SSCHE, Tatranské Matliare, May 21-25, 2018. - Bratislava : Slovak Society of Chemical Engineering, 2018, p. 55. ISBN 978-80-89597-89-5.
- AFH22 KRONEKOVÁ, Zuzana - PAULOVICHOVÁ, Ema - PAULOVICHOVÁ, Lucia - KRONEK, Juraj. Poly(2-isopropenyl-2-oxazoline) as a tool for combined cancer immunotherapy. In FABRICIOVÁ, Gabriela - DUŠEKOVÁ, Eva (eds.). Book of Contributions: 8th Slovak Biophysical Symposium, May 30-June 1, 2018, Košice, Slovakia. - Košice, Slovakia : Slovak Biophysical Society : COPYVAIT, 2018, p. 38-39. ISBN 978-80-973086-7-4.
- AFH23 KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - PEVALA, Vladimír - BAUER, Jacob - KOTRASOVÁ, Veronika - KERESZTESOVÁ, Barbora - BARÁTH, Peter - BELLOVÁ, Jana - KUTEJOVÁ, Eva. Mitochondrial nucleoid proteins. In Abstracts: Instruct Ultra. 2nd Structural Biological Meeting, November 15-16, 2018, Bratislava. - Bratislava : Chemický ústav SAV, 2018, p. 9. ISBN 78-971156-6-1.
- AFH24 KVĚTOŇ, Filip - JANNSON, Bo - TKÁČ, Ján. Glykánový biosenzor na báze Tn antigénu na stanovenie protilátky GOD3-2C4. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2018: PREVEDA: Interaktívna konferencia mladých vedcov. - Bratislava : Občianske združenie Preveda, 2018, abstrakt č. 1765. ISBN 978-80-972360-2-1.
- AFH25 MATULOVÁ, Mária - UHLIARIKOVÁ, Iveta - ŠALINGOVÁ, Anna - BEHÚLOVÁ, Darina - HLAVATÁ, Anna - JURÍČKOVÁ, Katarína - KOLNÍKOVÁ, Miriam - ŠALIGOVÁ, Jana - POTOČŇÁKOVÁ, Ľudmila. Targeted diagnosing by NMR spectroscopy – deficiencies of aminoacylase I and guanidinoacetate methyltransferase (GAMT). In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. - Bratislava : Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 101.
- AFH26 PÄTOPRSTÝ, Vladimír - KOPÁČOVÁ, Mária - CHYBA, Andrej - HRIVNÁKOVÁ, Viera - UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária. Linkage analysis of plant polysaccharides. In HUTTA, Milan - BODOR, Róbert - HALKO, Radoslav (eds.). Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human

- Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. - Bratislava : Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 147.
- AFH27 PAWLIKOWSKA, E. - BREIEROVÁ, Emília - JAMES, S.A. - KREGIEL, D. In search of natural biocontrol agents *Metschnikowia* species. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 53. ISSN 1336-4839.
- AFH28 STRATILOVÁ, Barbora - KOZMON, Stanislav - STRATILOVÁ, Eva. Study of the xyloglucan endotransglycosylase (XET) interactions with substrates using computational chemistry tools. In Abstracts: Instruct Ultra. 2nd Structural Biological Meeting, November 15-16, 2018, Bratislava. - Bratislava : Chemický ústav SAV, 2018, p. 18. ISBN 78-971156-6-1.
- AFH29 UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - SASINKOVÁ, Vlasta - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - MINGYAR, Erik - CSOLLEIOVÁ, Dominika - ŠEVČÍKOVÁ, Beatrice - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján. The structure of the angucycline-like antibiotic auricin from *Streptomyces lavendulae* subsp. *lavendulae* CCM 3239. In Book of Abstracts: 24th International Symposium on Separation Sciences (ISSS 2018), 21st International Conference Analytical Methods and Human Health (AMHH 2018), June 17-20, 2018, Jasná, Slovakia. - Bratislava : Department of Analytical Chemistry, Faculty of Natural Sciences, Comenius University, 2018, p. 110.
- AFH30 VADKERTIOVÁ, Renáta - DUDÁŠOVÁ, Hana - STRATILOVÁ, Eva. Diversity of yeasts associated with fruit trees. In HAPALA, Ivan - BREIEROVÁ, Emília (eds.). Program and Abstracts: 45th Annual Conference on Yeast, May 15-18, 2018, SAS Congress Centre, Smolenice, Slovakia. - Bratislava : Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018, p. 20. ISSN 1336-4839.
- AFH31 VALÁRIKOVÁ, Jana - KORCOVÁ, Jana - ČÍŽOVÁ, Alžbeta - HÁNYŠOVÁ, Sandra - FARKAŠ, Pavol. Identifikácia vibrií izolovaných zo slovenských vôd a determinácia ich faktorov virulencie. In FERKO, Miroslav - FARKAŠ, Pavol (eds.). Zborník abstraktov 2018: PREVEDA: Interaktívna konferencia mladých vedcov 2018. - Bratislava : Občianske združenie Preveda, 2018, abstrakt č. 1784. ISBN 978-80-972360-2-1.
- AFH32 ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - ŠALINGOVÁ, Anna - SKOKŇOVÁ, Martina - ŠEBOVÁ, Claudia - MUCHA, Ján - BARÁTH, Peter. Glykomická a genetická analýza suspektného ALG12-CDG pacienta. In ŠEVČOVIČOVÁ, Andrea - KYZEK, Stanislav (eds.). Zborník abstraktov: Genetická konferencia Genetickej spoločnosti Gregora Mendela 2018, 12.-14. september 2018, Bratislava, Slovensko. - Bratislava : Univerzita Komenského v Bratislave, 2018, p. 95. ISBN 978-80-223-4545-3.

AFK Postery zo zahraničných konferencií

- AFK01 HRICOVÍNI, Michal - ASHER, James - MALKINA, Olga - HRICOVÍNI, Miloš. The photochemistry of the -N=N=CH- array in quinazolinone derivatives. In XIth Workshop on Modern Methods in Quantum Chemistry, February 25-March 2, 2018, Mariapfarr, Austria.
- AFK02 KIS, Peter - MASTIHUBOVÁ, Mária. Basic zinc carbonate as a green glycosylation promoter in the synthesis of Osmanthuside H and Cuneataside C. In COST Action

CM1407 - 3rd Training School "Computational modeling tools in drug discovery with natural products", December 10-12, 2018, Universidad de La Laguna, Tenerife, Spain.

- AFK03 KOZMON, Stanislav - TRNKA, Tomáš - TVAROŠKA, Igor. Study of the enzymatic reaction mechanisms using reaction path optimization procedures. In Programme: 2nd Users Conference of IT4Innovations, November 7, 2018, Ostrava, Czech Republic. - Ostrava : IT4Innovations, 2018.

AFL Postery z domácich konferencií

- AFL01 HRABOVSKÁ, Marta - ŠALINGOVÁ, Anna - NEMČOVIČ, Marek - ZIBUROVÁ, Jana - MUCHA, Ján - BARÁTH, Peter - ŠEBOVÁ, Claudia - OSTROŽLÍKOVÁ, Mária. Diagnostika porúch glykozylácie na Slovensku - súčasný stav. In XIII. Kongres SSKB a SSLM s medzinárodnou účasťou, 4.-6. november 2018, Piešťany, Slovensko.
- AFL02 ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - ŠALINGOVÁ, Anna - TEKELYOVÁ, Alexandra - DOLNÍKOVÁ, Dana - ŠEBOVÁ, Claudia - MUCHA, Ján - BARÁTH, Peter. Využitie multiomického prístupu v diagnostike suspektného ALG12-CDG pacienta. In XXIX. Izakovičov memoriál, 17.-19.10.2018, Bratislava, Slovensko.

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

- FAI01 PREVEDA: Interaktívna konferencia mladých vedcov 2018. Interactive Conference of Young Scientists 2018. Zborník abstraktov. Editori: Miroslav Ferko, Pavol Farkaš. Bratislava: Občianske združenie Preveda, 2018. ISBN 978-80-972360-2-1.
- FAI02 45th Annual Conference on Yeast. May 15-18 2018, SAS Congress Centre, Smolenice, Slovakia. Bratislava: Komisia pre kvasinky pri CHÚ SAV, Ústav biochémie a genetiky živočíchov CB SAV, 2018. ISSN 1336-4839.
- FAI03 2nd Structural Biology Meeting, November 15-16, 2018, Bratislava. Bratislava: Institute of Chemistry SAS, 2018. ISBN 978-80-971156-6-1.

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

- GII01 BREIEROVÁ, Emília. Culture Collection of Yeast (CCY), Institute of Chemistry, Slovak Academy of Sciences. In Yeast Newsletter, 2017, vol. 66, no. 2, p. 18. ISSN 0531-5222.
- GII02 HORÁK, Otokar - TKÁČ, Ján. Dostal európskeho „vedeckého Oscara“. In Denník N, rubrika Veda, 20. augusta 2018, s. 14. ISSN 1339-844X.
- GII03 HORÁK, Otokar - KVĚTOŇ, Filip. Chemik: Pitie demineralizovanej vody môže viesť k poruchám metabolizmu či odvápnovaniu kostí. In Denník N, rubrika Rozhovory, 5. januára 2018, s. 5. ISSN 1339-844X.
- GII04 KVĚTOŇ, Filip. Zvedavec roka. In Kniha abstraktov: Žijem vedu naživo 2018: 1. ročník konferencie slovenských vedcov, 21. decembra 2018, Bratislava. - Bratislava : 2018 žijemvedu o.z., 2018, s. 78.
- GII05 MASTIHUBA, Vladimír. Chemické horizonty 2017. In ChemZi : Slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel, 2017, roč. 13, s. 20. ISSN 1336-7242.
- GII06 PODSTUPKA, Martin - FARKAŠ, Pavol. Ako možno urobiť zo žiakov doktorandov. In Akadémia: Správy SAV, 2018, roč. 54, s. 15-17. ISSN 0139-6307.

- GII07 TKÁČ, Ján. Veda či start-up? In Kniha abstraktov: Žijem vedu naživo 2018: 1. ročník konferencie slovenských vedcov, 21. decembra 2018, Bratislava. - Bratislava : 2018 žijemvedu o.z., 2018, s. 29.
- GII08 TKÁČ, Ján. Slovenský úspech: Včasná diagnostika je základ. In 21. století: Panorama, roč. 2018, s. 26.
- GII09 VACULÍK, Marek - LUX, Alexander. Nová nádej pre kontaminované územia? In Quark : magazín pre vedu a techniku, 2018, roč. XXIV, s. 30-31. ISSN 1335-4000.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

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 (5. 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:

Mgr. Jana Jakubčinová

Názov semestr. predmetu: Cvičenia z organickej chémie (1. roč. Bc. štúdia, študijný odbor Biológia)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Ing. Vladimír Mastihuba, PhD.

Názov semestr. predmetu: Odborná prax (2. roč. Ing. štúdia)

Počet hodín za semester: 120

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav chemického a environmentálneho inžinierstva

Mgr. Barbora Stratilová

Názov semestr. predmetu: Fyzikálna chémia 1 (laboratórne cvičenia, 2. roč. Bc. štúdia)

Počet hodín za semester: 60

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Mgr. Barbora Stratilová

Názov semestr. predmetu: Laboratórna technika (1. roč. Bc. štúdia)

Počet hodín za semester: 36

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Semináre:

Mgr. Ágnes Horváthová

Názov semestr. predmetu: Seminár k bakalárskej práci (3. roč. Bc. štúdia)

Počet hodín za semester: 40

Názov katedry a vysokej školy: Fakulta chemická, Vysoké učení technické v Brně, VUT Brno, Česko, Ústav chemie potravín a biotechnológií

Mgr. Jana Jakubčinová

Názov semestr. predmetu: Seminár z organickej chémie (1. roč. Bc. štúdia, biológia)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra organickej chémie

Mgr. Stanislav Kozmon, PhD.

Názov semestr. predmetu: Diplomová práca (2. roč. Mgr. štúdia)

Počet hodín za semester: 36

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Mgr. Stanislav Kozmon, PhD.

Názov semestr. predmetu: Diplomový seminár (2. roč. Mgr. štúdia)

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Terénne cvičenia:

Individuálne prednášky:

Mgr. Peter Baráth, PhD.

Názov semestr. predmetu: Proteomika (predmet: Genomika, 1. roč. Mgr. štúdia)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Ing. Renáta Vadkertiová, PhD.

Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova (predmet: Seminár z mikrobiológie, 3. roč. Bc. štúdia)

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

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
Belgicko					Jaroslav Katrlík	14
Česko	Júlia Mičová	5			Marek Bučko	2
					Peter Capek	7
					Hana Dudášová	1
					Peter Gemeiner	2
					Stanislav Kozmon	3
					Andrea Schenkmayerová	365
					Igor Tvaroška	6
Čína	Jaroslav Katrlík	14				
Francúzsko					Soňa Garajová	365
Japonsko			Vladimír Sládek	87		
Nemecko					Viera Dujnič	57
Slovinsko					Ján Tkáč	2
Srbsko	Jaroslav Katrlík	8				
	Martina Križáková	8				
Taiwan					Peter Capek	9
Taliansko			Peter Capek	3		
USA					Peter Biely	8
Veľká Británia					Miloš Hricovíni	2
Počet vyslaní spolu	4	35	2	90	14	843

(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
Austrália					Dr. Darren	5

Česko	Mgr. Veronika Šamšulová	89			Grice doc. Andriy Synytsya	2
	Mgr. Vlasta Matušková	91			Dr. Jiří Stuchlík	4
	RNDr. Petr Kulhánek, PhD.	151			Dr. The-ha Stuchlíková	4
					Dr. Zdeněk Remeš	4
					Mgr. Leonid Sushytskyi	2
					prof. Jana Čopíková	2
Kórejská republika					Prof. Chan Im	5
Rakúsko			Dr. Mag. Vet. Med. Karin Mandl	2		
Srbsko	Dr. Dragana Robajac	16				
	Dr. Goran Miljuš	8				
	Dr. Miloš Šunderić	8				
	Mgr. Ana Penezić	8				
Počet prijatí spolu	7	371	1	2	8	28

(C) Účast' pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Argentína	ISSY34	Peter Biely	8
Belgicko	COST Action CA17128-1MCM	Vladimír Mastihuba	3
	MIRRI Meeting	Renáta Vadkertiová	2
Česko	70. Sjezd chemiků	Jana Jakubčinová	4
		Filip Květoň	4
		Jozef Turjan	4
		Zuzana Vivodová	4
		Mária Zajičková	4
	7th JCS Symposium	Stanislav Kozmon	6
		Vladimír Sládek	5
	Chemistry and Life 2018	Emília Breierová	3
		Hana Dudášová	3
		Āgnes Horváthová	3
	Glycoscience 2018	Ján Hirsch	5
		Zdenka Hromádková	4
		Iveta Uhliaríková	3
	ICN+T 2018	Ján Tkáč	4
	IMYBBC18	Tomáš Klunda	4

	Nanocon 2018	Lenka Lorencová	3
	Potlach 2018	Tomáš Bertók	2
		Michal Híreš	2
		Alena Holazová	2
		Eduard Jáné	2
		Filip Květoň	2
		Lenka Lorencová	2
		Ján Tkáč	2
	PSBCE 2018	Filip Květoň	2
	Quo Vadis Chemie	Tomáš Bertók	2
		Jana Blahutová	2
		Anna Blšáková	2
		Veronika Gajdošová	2
		Michal Híreš	2
		Štefánia Hrončeková	2
		Eduard Jáné	2
		Filip Květoň	2
		Lenka Lorencová	2
		Ján Tkáč	2
	Tomáškovy dny 2018	Hana Dudášová	6
	Vodafone 2018	Tomáš Bertók	1
		Ján Tkáč	1
	XIX. SBMB	Tomáš Krajčovič	2
	XXXVIII. MEM	Ján Tkáč	1
Grécko	COST Action FP1306	Vladimír Mastihuba	5
Holandsko	20th CISHAM	Lucia Paulovičová	4
	Instruct-ULTRA	Miloš Hricovíni	2
Chorvátsko	2nd GlycoCom 2018	Jaroslav Katrlík	6
Maďarsko	CTB9	Michal Hricovíni	5
		Miloš Hricovíni	5
Portugalsko	ANM 2018	Júlia Mičová	6
	COST Action CA16113	Jaroslav Katrlík	8
	ICS 2018	Miloš Hricovíni	7
		Zuzana Hricovíniová	7
		Jaroslav Katrlík	11
	Instruct-ERIC	Miloš Hricovíni	3
Rakúsko	MassSpec 2018	Eva Stratilová	2
	MMM 2018	Jaroslav Katrlík	2
	MMQC 2018	Michal Hricovíni	2
Španielsko	COST Action CM1407-FM	Peter Kis	8
		Vladimír Mastihuba	8
		Mária Mastihubová	8
Švajčiarsko	COST Action CA16231-1EAW	Pavol Farkaš	4
Taiwan	10th ACGG	Peter Capek	14
USA	40th SBFC	Peter Biely	8
Veľká Británia	Synthetic Glycobiology	Ján Tkáč	5
Spolu	34	64	253

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

10th ACGG - 10th Asian Community of Glycoscience and Glycotechnology
 20th CISHAM - 20th Congress of the International Society for Human and Animal Mycology
 2nd GlycoCom 2018 - 2nd GlycoCom 2018 and 1st Human Glycome Project Meeting
 40th SBFC - 40th Symposium on Biotechnology for Fuels and Chemicals
 70. Sjezd chemiků - 70. Sjezd chemiků
 7th JCS Symposium - 7th Japan-Czech-Slovak Symposium
 ANM 2018 - 11th International Conference on Advanced Nano Materials
 Chemistry and Life 2018 - 7th meeting on Chemistry and Life 2018
 COST Action CA16113 - COST Action CA16113 Clinimark Costaction Meeting
 COST Action CA16231-1EAW - COST Action CA16231 1st ENOVA Adjuvant Workshop
 COST Action CA17128-1MCM - COST Action CA17128 -1st MC Meeting
 COST Action CM1407-FM - Final Meeting of CMST COST Action CM1407: Challenging Organic
 Syntheses Inspired by Nature-from Natural Products Chemistry to Drug Discovery
 COST Action FP1306 - COST Action FP1306 4th Workshop & 5th MC Meeting
 CTB9 - Chemistry Towards Biology: Biomolecules as Potential Drugs
 Glycoscience 2018 - 14th International Conference on Polysaccharides-Glycoscience
 ICN+T 2018 - 2018 International Conference on Nanoscience + Technology
 ICS 2018 - 29th International Carbohydrate Symposium - ICS 2018
 IMYBBC18 - XVIII. Interdisciplinary Meeting of Young Biologists, Biochemists and Chemists
 Instruct-ERIC - Instruct-ERIC High Level Strategic Meeting
 Instruct-ULTRA - Instruct Ultra/iNEXT ARIA Workshop
 ISSY34 - 34th International Specialized Symposium on Yeasts
 MassSpec 2018 - 29th MassSpec Forum Vienna
 MIRRI Meeting - Meeting of Microbial Resource Research Infrastructure consortium
 MMM 2018 - Microarrays and Nanoarrays in Microfluidics and Multiplex Diagnostics Workshop within IVD
 & POCT
 MMQC 2018 - XIth Workshop on Modern Methods in Quantum Chemistry
 Nanocon 2018 - Nanocon 2018 - 11th International Conference on Nanomaterials - Research & Application
 Potlach 2018 - Potlach č. IV o vybraných kapitolách z (bio)elektroanalitické chemie aneb pojd'me spoločne
 lépe rozumět tomu, co děláme
 PSBCE 2018 - Pracovní setkání biofyzikálních chemiků a elektrochemiků 2018
 Quo Vadis Chemie - Odpoledne v elektrochemii a Heyrovského přednáška v rámci cyklu Quo Vadis Chemie
 Synthetic Glycobiology - Synthetic Glycobiology - Kick-off Meeting for ITN Project synBIOcarb
 Tomáškovy dny 2018 - Tomáškovy dny 2018. XXVII. Tomáškovy dny mladých mikrobiologů
 Vodafone 2018 - Vodafone Nápad roku 2018
 XIX. SBMB - XIX. Setkání biochemiků a molekulárních biologů
 XXXVIII. MEM - XXXVIII. Moderní Elektrochemické Metody

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum
Ing. Tomáš Bertók, PhD.	Hana Dudášová, Michal Híreš, Miloš Hricovíni, Eduard Jáné, Peter Kis, Juraj Kóňa, Lenka Lorencová, Vlasta Sasinková, Iveta Uhliariková	EX	Prezentácia laboratória CHÚ SAV	Týždeň vedy a techniky 2018, Deň otvorených dverí CHÚ SAV, Bratislava	6.11.2018
Ing. Emília Breierová, PhD.		TL	Culture Collection of Yeast (CCY), Institute of Chemistry, Slovak Academy of Sciences	Yeast Newsletter, December 2017, vol. LXVI, no. II, p. 18.	2018
Ing. Emília Breierová, PhD.	Slávka Cigáňová	IN	Úloha karotenoidov v agropotravinárstve	Vedanadosah.cvtisr.sk, sekcia Články, http://vedanadosah.cvtisr.sk/uloha-karotenoidov-v-agropotravinarstve	17.3.2018
Ing. Pavol Farkaš, PhD.	Barbora Alföldyová, Lucia Paulovičová, Jana Valáriková	EX	Prezentácia ústavu a názorné chemické pokusy	Projekt Nájdi v sebe vedca, 2. ročník, CHÚ SAV, Bratislava	21.3.2018
Ing. Pavol Farkaš, PhD.	Martin Podstupka	TL	Ako možno urobiť zo žiakov doktorandov	Akadémia: Správy SAV, 2018, roč. 54, č. 5, s. 15-17. ISSN 0139-6307	2018
Ing. Pavol Farkaš, PhD.	Silvia Podhradská	IN	10 rokov interaktívnej konferencie PREVEDA par excellence	Vedanadosah.cvtisr.sk, sekcia Články; http://vedanadosah.cvtisr.sk/10-rokov-interaktivnej-konferencie-preveda-par-excellence	10.6.2018
Ing. Pavol Farkaš, PhD.	Slávka Cigáňová	IN	Vedci sa snažia o ešte účinnejšie a bezpečnejšie vakcíny	Vedanadosah.cvtisr.sk, sekcia Články. http://vedanadosah.cvtisr.sk/vedci-sa-snazia-o-este-ucinnejsie-a-bezpecnejsie-vakciny	14.5.2018
Ing. Pavol Farkaš, PhD.	Zuzana Vetrecin Čepčíková, Martin Nosko, Miroslav Ferko, Alena Šišková, Silvia Podhradská, Gabriel Kalna	IN	Nájdi v sebe vedca 2018: Deti sa na jeden deň opäť stali skutočnými vedcami	Vedanadosah.cvtisr.sk, sekcia Články. http://vedanadosah.cvtisr.sk/najdi-v-sebe-vedca-2018-deti-sa-na-jeden-den-opat-stali-skutocnymi-vedci	27.3.2018
doc. Ing. Vladimír Farkaš, DrSc.	Marta Bartošovičová	IN	Cenu Celoživotné zásluhy v oblasti vedy a techniky 2018 získal doc. Ing. Vladimír Farkaš, DrSc.	Vedanadosah.cvtisr.sk, sekcia Články. http://vedanadosah.cvtisr.sk/cenu-celozivotne-zasluhy-v-oblasti-vedy-a-techniky-2018-ziskal-doc-ing-vladimir-farkas-drsc	9.11.2018
Mgr. Ágnes Horváthová		PB	Identifikácia mikroorganizmov hmotnostnou	Týždeň vedy a techniky 2018, Deň otvorených dverí CHÚ SAV, Bratislava	6.11.2018

			spektrometriou		
Mgr. Jana Jakubčinová		PB	Potenciálne inhibitory ľudských glykozyltransferáz a možnosti štúdia na PriF UK a Chemickom ústave SAV	Týždeň vedy a techniky 2018, Gymnázium Golianova 68, Nitra	9.11.2018
Ing. Jaroslav Katrlík, PhD.	Jaroslav Barborák, Štefánia Kačalková	RO	Výše 30 miliónov na vedu a výskum. Podľa vedcov by potrebovali ešte viac	RTVS, Rádio Slovensko, relácia Rádiožurnál o 18:00; https://www.rtv.s.sk/radio/arc_hiv/1124/1048842	22.12.2018
Ing. Jaroslav Katrlík, PhD.	Slávka Cigánová	IN	V boji proti rakovine pomocou výskumu cukrov	Vedanadosah.cvtisr.sk, sekcia Články. http://vedanadosah.cvtisr.sk/v-boji-proti-rakovine-pomocou-vyskumu-cukrov	21.4.2018
RNDr. Jaroslav Klaudiny, PhD.		PB	Včela medonosná	Šiesty ročník projektu Petržalská super škola, Bratislava	6.6.2018
Ing. Tomáš Krajčovič, PhD.		PB	Roadshow mladých vedcov po školách	Gymnázium L. Sáru, Gymnázium pre mimoriadne nadané deti, Bratislava; Súkromná ZŠ, Senec	26.10.2018
Ing. Tomáš Krajčovič, PhD.		PB	Tajomstvá kávy	Týždeň vedy a techniky 2018, Deň otvorených dverí CHÚ SAV, Bratislava	6.11.2018
Ing. Filip Květoň		PB	Roadshow mladých vedcov po školách	Gymnázium v Trenčíne, Dubnici a Novom Meste nad Váhom	26.4.2018
Ing. Filip Květoň		TL	Zvedavec roka	Kniha abstraktov: Žijem vedu naživo 2018: 1. roč. konferencie slovenských vedcov, Bratislava. Bratislava: 2018 žijemvedu o.z., 2018, s. 78	21.12.2018
Ing. Filip Květoň	Alena Holazová, Lenka Lorencová	EX	Prezentácia výskumnej práce z oblasti biotechnológií	Projekt Veda má budúcnosť: Veda v praxi – Stredná zdravotnícka škola Bratislava & Chemický ústav. http://www.vedamabuducnost.sk/veda-v-praxi-stredna-zdravotnicka-skola-bratislava-chemicky-ustav-31-5-2018/	31.5.2018
Ing. Filip Květoň	Otakar Horák	TL	Chemik: Pitie demineralizovanej vody môže viesť k poruchám metabolizmu či odvápnovaniu kostí	Denník N, rubrika Rozhovory, s. 6. ISSN 1339-844X	5.1.2018
prof. RNDr. Alexander Lux, CSc.	Karin Kollárová, Marek Vaculík, Michal Martinka, Zuzana Lukáčová, Renáta Švubová, Mária Babinská	RO	Výskum na Katedre fyziológie rastlín Prírodovedeckej fakulty UK	RTVS, Rádio Regina Západ, relácia Veda, výskum, objavy, 14:05-15:00 hod. https://www.rtv.s.sk/radio/arc_hiv/11376/936303	4.6.2018
prof. RNDr. Alexander Lux, CSc.	Marek Vaculík	TL	Nová nádej pre kontaminované územia?	Quark, 2018, roč. XXIV, č. 7, s. 30-31.	2018
Ing. Vladimír		TL	Chemické horizonty 2017	ChemZi, 2017, roč. 13, č. 2, s. 20.	2018

Mastihuba, PhD.					
Ing. Vladimír Mastihuba, PhD.	Slávka Cigáňová	IN	Ako využiť biomasu na produkciu chemikálií, materiálov a palív	Vedanadosah.cvtisr.sk, sekcia Články, http://vedanadosah.cvtisr.sk/ako-vyuzit-biomasu-na-produkciu-chemikalii-materialov-a-paliv	14.3.2018
Ing. Júlia Mičová, PhD.	Slávka Cigáňová	IN	Hybridné solárne články ako obnoviteľné zdroje energie	Vedanadosah.cvtisr.sk, sekcia Články. http://vedanadosah.cvtisr.sk/hybridne-solarne-clanky-ako-obnovitelne-zdroje-energie	23.3.2018
Mgr. Barbora Stratilová		PB	Modelovanie biomolekúl metódami výpočtovej chémie	Týždeň vedy a techniky 2018, Deň otvorených dverí CHÚ SAV, Bratislava	6.11.2018
Ing. Ján Tkáč, DrSc.		PB	Dá sa preraziť vo vede na Slovensku?	Prírodovedecká fakulta UK, Bratislava	15.11.2018
Ing. Ján Tkáč, DrSc.		PB	Excellent research in Slovakia towards ERC grants – my personal experience	Národná konferencia v rámci Týždňa vedy a techniky, Incheba, Bratislava	8.11.2018
Ing. Ján Tkáč, DrSc.		PB	From academia to start-up	Life Science Innovation Day, Vedecký park PriF UK, Bratislava	29.5.2018
Ing. Ján Tkáč, DrSc.		TL	Slovenský úspech: Včasná diagnostika je základ	21. stololetí: Panorama, ročník 2018, č. 4, s. 26. ISSN 1214-1097	5.11.2018
Ing. Ján Tkáč, DrSc.		TL	Veda či start-up?	Kniha abstraktov: Žijem vedu naživo 2018: 1. roč. konferencie slovenských vedcov, Bratislava. Bratislava: 2018 žijemvedu o.z., 2018, s. 29	21.12.2018
Ing. Ján Tkáč, DrSc.		PB	Veda či start-up?	Žijem vedu naživo 2018: 1. ročník konferencie slovenských vedcov, Bratislava. https://www.youtube.com/watch?v=KWTrqoWVWGA	21.12.2018
Ing. Ján Tkáč, DrSc.	Lenka Ježová	TV	J. Tkáč o projekte diagnostiky rakoviny prostaty	Televízia TA3, relácia Štúdio TA3, 10:37 hod. https://www.ta3.com/clanok/1134330/studio-ta3-j-tkac-o-projekte-diagnostiky-rakoviny-prostaty	23.8.2018
Ing. Ján Tkáč, DrSc.	Lucia Ležovičová	TV	Veľký úspech slovenského vedca. Úspešne vyvíja lepší test na rakovinu	HNtelevízia, relácia Osobnosti, https://style.hnonline.sk/osobnosti/1802733-velky-uspech-slovenskeho-vedca-uspesne-vyvija-lepsi-test-na-rakovinu	2.9.2018
Ing. Ján Tkáč, DrSc.	Martina Jančeková	TV	Slovensku sa podarilo získať európskeho vedeckého Oscara	RTVS, relácia Ranné správy RTVS, 7:30 hod. http://www.rtvs.sk/televizia/archiv/12993/164095#2640	17.8.2018
Ing. Ján Tkáč, DrSc.	Martina Štefániková	IN	Slovák Ján Tkáč získal prestížne ocenenie: Vďaka jeho objavu môžu muži pokojne spať	Denník Nový čas, sekcia Domáce správy, https://www.cas.sk/clanok/730168/slovak-jan-tkac-ziskal-prestizne-ocenenie-vdaka-jeho-objavu-mozu-muzi-	17.8.2018

				pokojne-spavat/	
Ing. Ján Tkáč, DrSc.	Miroslav Kooš, Otakar Horák	IN	Slovenský chemik dostal európskeho „vedeckého Oscara“, pre spory okolo SAV je možné, že nedostane financie	DenníkN.sk, sekcia Veda, https://dennikn.sk/1207111/slovensky-chemik-dostal-europskeho-vedeckeho-oscara-pre-spory-okolo-sav-je-mozne-ze-nedostane-financie/?ref=list	16.8.2018
Ing. Ján Tkáč, DrSc.	Monika Hucáková	IN	Slovenskí výskumníci vyvinuli špeciálnu metódu včasnej diagnózy rakoviny	SME.sk, sekcia Sme Domov, https://domov.sme.sk/c/20857658/slovenski-vyskumnici-vyvinuli-specialnu-metodu-vcasnej-diagnozy-rakoviny.html#ixzz5JWbrIPB9	26.6.2018
Ing. Ján Tkáč, DrSc.	Otakar Horák	TL	Dostal európskeho „vedeckého Oscara“	Denník N, rubrika Veda, s. 14. ISSN 1339-844X	20.8.2018
Ing. Ján Tkáč, DrSc.	Pavol Čekan, Alexandra Kolenová	PB	Kedy skončíme s rakovinou?	Festival vedy – Európska noc výskumníkov, V-Klub, Národné osvetové centrum, Bratislava	28.9.2018
Ing. Ján Tkáč, DrSc.	Pavol Zachar, TASR	IN	Veľký úspech slovenského vedca: Za výskum v diagnostike rakoviny prostaty získal "vedeckého Oscara"	HNOnline, sekcia HNScience, Biológia a chémia, https://science.hnonline.sk/biologia-a-chemia/1794850-velky-uspech-slovenskeho-vedca-za-vyskum-v-diagnostike-rakoviny-prostaty-ziskal-vedeckeho-oscara	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely	IN	Slovensko získalo európskeho vedckého Oscara môže za to projekt vedca SAV Jána Tkáča	WebNoviny.sk, https://www.webnoviny.sk/slovensko-ziskalo-europskeho-vedeckeho-oscara-moze-za-projekt-vedca-sav-jana-tkaca/	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš	IN	Slovensko získalo za projekt diagnostikovania rakoviny prostaty európskeho "vedeckého Oscara"	Dnes24.sk, https://www.dnes24.sk/slovensko-ziskalo-za-projekt-diagnostikovania-rakoviny-prostaty-europskeho-vedeckeho-oscara-306731	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Elena Senková, Monika Hucáková	TV	"Vedecský Oskar" pre biochemika zo SAV	RTVS, relácia Správy RTVS, 19:00 hod. https://www.rtvsk.sk/televizia/archiv/12957/164081#1845	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Lenka Ježová, Monika Hucáková	TV	Slovensko získalo "vedeckého Oscara"	Televízia TA3, relácia Spravodajstvo, 16:25 hod. https://www.ta3.com/clanok/1133878/slovensko-ziskalo-vedeckeho-oscara-za-diagnostiku-rakoviny.html	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Monika Hucáková	IN	Chemik Ján Tkáč získal „vedeckého Oscara“	Veda na dosah, sekcia Články, http://vedanadosah.cvtisr.sk/chemik-jan-tkac-ziskal-vedeckeho-oscara	18.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Monika Hucáková	TV	Záznam: TK Slovenskej akadémie vied	Spravodajská televízia Tablet.TV, https://tv.teraz.sk/live/x6s2v2j20180816_sav/15367/	16.8.2018

Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Peter Petrus	TV	Významný úspech vedca Tkáča	Televízia JOJ, relácia Noviny TV JOJ, 19:30 hod. https://videoportal.joj.sk/noviny/epizoda/56909-noviny-tv-joj	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Silvia Juříková, Monika Hucáková	TV	Včasná diagnostika rakoviny prostaty	Televízia Markíza, relácia Televízne noviny, 19:00 hod. http://videoarchiv.markiza.sk/video/televizne-noviny/87965_televizne-noviny#	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Miroslav Kooš, Veronika Valášková	RO	Slovensku sa podarilo získať pomyselného európskeho vedeckého Oscara	RTVS, Rádio Slovensko, relácia Rádiožurnál o 18:00, https://www.rtv.sk/radio/archiv/1124/976518	16.8.2018
Ing. Ján Tkáč, DrSc.	Peter Samuely, Spectator Staff	IN	Slovaks receive the European "science Oscar"	The Slovak Spectator, https://spectator.sme.sk/c/20893677/slovaks-receive-the-european-science-oscar.html	17.8.2018
Ing. Ján Tkáč, DrSc.	TASR	IN	Slováci získali európskeho vedeckého Oscara	SME.sk, sekcia Sme Tech, https://tech.sme.sk/c/20893294/slovaci-ziskali-europskeho-vedeckeho-oscara.html	19.8.2018
Ing. Ján Tkáč, DrSc.	TASR	IN	Slovensku sa podarilo získať európskeho vedeckého Oscara	Teraz.sk, sekcia Slovensko, https://www.teraz.sk/slovensko/sav-grant-vedecky-oscar/343018-clanok.html	16.8.2018
Ing. Ján Tkáč, DrSc.	TASR, Pavol Zachar	IN	Slovensku sa podarilo získať európskeho 'vedeckého Oscara'	VAT Pravda, sekcia Človek, https://vat.pravda.sk/clovek/clanok/480599-slovensku-sa-podarilo-ziskat-europskeho-vedeckeho-oscara/	16.8.2018
Ing. Ján Tkáč, DrSc.	Tomáš Bertók, Milan Čupka	TL	Ako predat vedu?	Forbes NEXT, 2018, s. 66-74. ISSN 2453-739X	2018
Ing. Ján Tkáč, DrSc.	Tomáš Bertók, Otakar Horák	IN	Slovenskí vedci vyvíjajú testy na rakovinu prostaty a prsníka, na analýzu im postačí polovica kvapky krvi	DenníkN.sk, sekcia Veda, https://dennikn.sk/1154869/slovenski-vedci-vyvijaju-testy-na-rakovinu-prostaty-a-prsnika-na-analyzu-im-postaci-polovica-kvapky-krvi/	22.6.2018
Ing. Renáta Vadkertiová, PhD.	Slávka Cigánová	IN	Kvasinky sú všade okolo nás: Väčšina ľudí verí fáme, ktorá z choroby obviňuje cukor	Vyšetrenie.zoznam.sk, Rozhovory, http://vysetrenie.zoznam.sk/cl/1001047/1691621/Kvasinky-su-vsade-okolo-nas-Vacsina-ludi-veri-fame-ktora-z-choroby-obvinuje-cukor	5.3.2018
Ing. Renáta Vadkertiová, PhD.	Lenka Dzobová	RO	Kváskovanie	RTVS, Rádio Slovensko, relácia Seriál týždňa, 8:16 hod. https://slovensko.rtv.sk/relacie/serial-tyzdna/182392/kvaskovanie	10.-14.12.2018

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, DO - dokumentárny film

Ohlasy (citácie):**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

- AAA01 KODET, J. - BABOR, Karol. Modifikované škroby, dextríny a lepidlá. (Modified starches, dextrans and adhesives.). In KODET, J. - BABOR, K. Modifikované škroby, dextríny a lepidlá. (Modified starches, dextrans and adhesives.). Praha: SNTL, 1991, 328 p. ISBN 80-03-00554-X. ISSN 80-03-00554-X.

Citácie:

1. [1.1] Koptelova, E.K.; Kuzmina, L.G.; Lukin, N.D. Influence of Wet-Heat and Extrusion Treatment of Corn Starch on Its Resistance. In: *Dostizheniya nauki i tekhniki APK Vol. 31 (2017) Issue: 12 Pages: 68-71, Registrované v: WOS*

AAB Vedecké monografie vydané v domácich vydavateľstvách

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

Citácie:

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

2. [1.1] QURESHI, Muhammad Saad - VRBKA, Pavel - DOHNAL, Vladimír. Thermodynamic properties of five biofuel-relevant compounds at infinite dilution in water. In *FUEL*. ISSN 0016-2361, 2017, vol. 191, no., pp. 518-527., Registrované v: WOS

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

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

3. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS

4. [1.2] Ashter, S. A. (2017). *Technology and Applications of Polymers Derived from Biomass* (Elsevier, pp. 1-272)., Registrované v: SCOPUS

- ABA02 WILSON, I.B.H. - BRETON, C. - IMBERTY, A. - TVAROŠKA, Igor. Molecular basis for the biosynthesis of oligo- and polysaccharides. In *Glycoscience - Chemistry and Chemical Biology*. 2nd edition. - Berlin : Springer Verlag, 2008, p. 2265-2323. ISBN 978-3-540-36157-2.

Citácie:

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

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

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 BIELY, Peter. Xylanolytic enzymes. In *Handbook of Food Enzymology*. - New York : Marcel

Dekker, Inc., 2003, p. 879-915. ISBN 0-8247-0686-2.

Citácie:

1. [1.1] DIMAROGONA, M. - TOPAKAS, E. Regulation and Heterologous Expression of Lignocellulosic Enzymes in *Aspergillus*. In NEW AND FUTURE DEVELOPMENTS IN MICROBIAL BIOTECHNOLOGY AND BIOENGINEERING: ASPERGILLUS SYSTEM PROPERTIES AND APPLICATIONS, 2016, vol., no., pp. 171-190., Registrované v: WOS
2. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase from *Bacillus halodurans* C-125. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS

ABC02 BIELY, Peter. Biochemical aspects of the production of microbial hemicellulases. In Hemicellulose and Hemicellulases. - London : Portland Press, 1993, p. 29-51. ISBN 9781855780361.

Citácie:

1. [1.1] HUANG, Di - LIU, Jia - QI, Yanfei - YANG, Kexin - XU, Yingying - FENG, Lu. Synergistic hydrolysis of xylan using novel xylanases, beta-xylosidases, and an alpha-L-arabinofuranosidase from *Geobacillus thermodenitrificans* NG80-2. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 15, pp. 6023-6037., Registrované v: WOS

ABC03 DELORT, Anne Marie - VAITILINGOM, Mickael - JOLY, Muriel - AMATO, Pierre - WIRGOT, Nolwenn - LALLEMENT, Audrey - SANCELME, Martine - MATULOVÁ, Mária - DEGUILLAUME, Laurent. Clouds: A transient and stressing habitat for microorganisms. In Chénard, Caroline - Lauro, Federico M. ed. : Microbial Ecology of Extreme Environments. - Cham, Switzerland : Springer International Publishing AG, 2017, chapter 10, p. 215-245. ISBN 978-3-319-51684-4.

Citácie:

1. [1.1] HANLON, Regina - POWERS, Craig - FAILOR, Kevin - MONTEIL, Caroline L. - VINATZER, Boris A. - SCHMALE, David G. Microbial ice nucleators scavenged from the atmosphere during simulated rain events. In ATMOSPHERIC ENVIRONMENT. ISSN 1352-2310, 2017, vol. 163, no., pp. 182-189., Registrované v: WOS

ABC04 EBRINGEROVÁ, Anna. The potential of xylans as biomaterials resources. In HABIBI, Youssef - LUCIA, Lucian A. Polysaccharide Building Blocks: A Sustainable Approach to the Development of Renewable Biomaterials. - Hoboken : John Wiley and Sons, 2012. Názov z. Požaduje sa.

Citácie:

1. [1.1] QUEIROS, Lucia C. C. - SOUSA, Sonia C. L. - DUARTE, Andreia F. S. - DOMINGUES, Fernanda C. - RAMOS, Ana M. M. Development of carboxymethyl xylan films with functional properties. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 1, pp. 9-17., Registrované v: WOS
2. [1.2] SALIMATH, P. V. - REVANAPPA, S. B. Cereal Pentosans: Structure-function relationship. In Trends in Carbohydrate Research, 2016-01-01, 8, 3, pp. 1-18., Registrované v: SCOPUS

ABC05 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.

Citácie:

1. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVERDE, Antonio. Bacterial Inclusion Bodies: Discovering Their Better Half. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS

ABC06 KOGAN, Grigorij - ŠOLTĚS, 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.

Citácie:

1. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS

ABC07 KRONEK, Juraj - PAULOVICOVÁ, Ema - PAULOVICOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTON, 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] KEMPE, Kristian. Chain and Step Growth Polymerizations of Cyclic Imino Ethers: From Poly(2-oxazoline)s to Poly(ester amide)s. In *MACROMOLECULAR CHEMISTRY AND PHYSICS*. ISSN 1022-1352, 2017, vol. 218, no. 11, pp., Registrované v: WOS
- ABC08 LATTOVÁ, Erika - PERREAULT, Héléne. Method for investigation of oligosaccharides using phenylhydrazine derivatization. In *Methods in Molecular Biology*. - New Jersey : Humana Press, 2009, p. 65-77. ISBN 1588297748.
- Citácie:
- [1.1] CHEN, Yi-Ting - HUNG, Wei-Ting - WANG, Shwu-Huey - FANG, Jim-Min - YANG, Wen-Bin. Quantitative analysis of sugar ingredients in beverages and food crops by an effective method combining naphthimidazole derivatization and H-1-NMR spectrometry. In *FUNCTIONAL FOODS IN HEALTH AND DISEASE*. ISSN 2160-3855, 2017, vol. 7, no. 7, pp. 494-510., Registrované v: WOS
 - [1.1] WEIGEL, Paul H. - BAGGENSTOSS, Bruce A. - WASHBURN, Jennifer L. Hyaluronan synthase assembles hyaluronan on a [GlcNAc(beta 1,4)](n)-GlcNAc(alpha 1>)UDP primer and hyaluronan retains this residual chitin oligomer as a cap at the nonreducing end. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2017, vol. 27, no. 6, pp. 536-554., Registrované v: WOS
- ABC09 LIŠKOVÁ, Desana - CAPEK, Peter - KOLLÁROVÁ, Karin - SLOVÁKOVÁ, Ľ. - KÁKOŠOVÁ, Anna. The potential of carbohydrates in plant growth regulation. In *Floriculture, Ornamental and Plant Biotechnology: Advances and Topical Issues*. - Isleworth : Global Science Books Ltd, 2006. ISBN 4-903313-09-3.
- Citácie:
- [1.1] HE, Chunmei - WU, Kunlin - ZHANG, Jianxia - LIU, Xuncheng - ZENG, Songjun - YU, Zhenming - ZHANG, Xinghua - DA SILVA, Jaime A. Teixeira - DENG, Rufang - TAN, Jianwen - LUO, Jianping - DUAN, Jun. Cytochemical Localization of Polysaccharides in *Dendrobium officinale* and the Involvement of DoCSLA6 in the Synthesis of Mannan Polysaccharides. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
- ABC10 MALOVÍKOVÁ, Anna - HAYAKAWA, K. - KWAK, J.C.T. Binding of alkylpyridinium cations by anionic polysaccharides. In *ACS Symposium Series : structure/Performance Relationships in Surfactants*. Vol. 253. - Washington : American Chemical Society, 1984, p. 226.
- Citácie:
- [1.1] VASILIEVA, E. A. - VALEEVA, F. G. - YELISEEVA, O. E. - LUKASHENKO, S. S. - SAIFUTDINOVA, M. N. - ZAKHAROV, V. M. - GAVRILOVA, E. L. - ZAKHAROVA, L. Ya. Supramolecular Nanocontainers Based on Hydrophobized Calix[4]resorcinol: Modification by Gemini Surfactants and Polyelectrolyte. In *MACROHETEROCYCLES*. ISSN 1998-9539, 2017, vol. 10, no. 2, pp. 182-189., Registrované v: WOS
- ABC11 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.
- Citácie:
- [1.1] RANATHUNGE, Kosala - KIM, Yangmin X. - WASSMANN, Friedrich - KRESZIES, Tino - ZEISLER, Viktoria - SCHREIBER, Lukas. The composite water and solute transport of barley (*Hordeum vulgare*) roots: effect of suberized barriers. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2017, vol. 119, no. 4, pp. 629-643., Registrované v: WOS
 - [1.1] VERSIEREN, Liske - EVERS, Steffie - ABDELGAWAD, Hamada - ASARD, Han - SMOLDERS, Erik. Mixture toxicity of copper, cadmium, and zinc to barley seedlings is not explained by antioxidant and oxidative stress biomarkers. In *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY*. ISSN 0730-7268, 2017, vol. 36, no. 1, pp. 220-230., Registrované v: WOS
- ABC12 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. The Bilik reaction. In *Topics in Current Chemistry. Glycoscience: Epimerization and Rearrangement Reactions of Carbohydrates*. - Berlin : Springer Verlag, 2001, p. 15-41. ISBN 3-540-41383-9.
- Citácie:
- [1.1] DELIDOVICH, Irina - HOFFMANN, Andreas - WILLMS, Andrea - ROSE, Marcus. Porous Tin-Organic Frameworks as Selective Epimerization Catalysts in Aqueous Solutions. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 6, pp. 3792-3798., Registrované v: WOS
 - [1.1] GUO, Jing - ZHU, Shanhui - CEN, Youliang - QIN, Zhangfeng - WANG, Jianguo - FAN, Weibin. Ordered mesoporous Nb-W oxides for the conversion of glucose to fructose, mannose and 5-hydroxymethylfurfural. In *APPLIED CATALYSIS B-ENVIRONMENTAL*. ISSN 0926-3373, 2017, vol. 200, no., pp. 611-619., Registrované v: WOS
 - [1.1] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS

4. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. *A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization.* In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS
5. [1.1] ZHENG, Mingyuan - PANG, Jifeng - SUN, Ruiyan - WANG, Aiqin - ZHANG, Tao. *Selectivity Control for Cellulose to Diols: Dancing on Eggs.* In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 3, pp. 1939-1954., Registrované v: WOS
- ABC13 REXOVA-BENKOVA, L. - MARKOVIČ, Oskar. Pectic enzymes. In *Advances in Carbohydrate Chemistry and Biochemistry*, 1976, vol. 33, p. 323- 385. ISSN 0065-2318.
Citácie:
1. [1.1] ANTONY, B. - JOHNY, J. - ALDOSARI, S. A. - ABDELAZIM, M. M. *Identification and expression profiling of novel plant cell wall degrading enzymes from a destructive pest of palm trees, Rhynchophorus ferrugineus.* In *INSECT MOLECULAR BIOLOGY*. ISSN 0962-1075, 2017, vol. 26, no. 4, pp. 469-484., Registrované v: WOS
2. [1.1] SHARMA, Harsh P. - PATEL, Hiral - SUGANDHA. *Enzymatic added extraction and clarification of fruit juices-A review.* In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 6, pp. 1215-1227., Registrované v: WOS
3. [1.2] GUNDALA, Prasada Babu - CHINTHALA, Paramageetham. *Extremophilic pectinases.* In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 155-180., Registrované v: SCOPUS
4. [1.2] SAELEE, Manee - SIVAMARUTHI, Bhagavathi Sundaram - SIRILUN, Sasithorn - CHAIYASUT, Chaiyavat. *Extraction and evaluation of pectin methylesterase from Morinda citrifolia.* In *Journal of Applied Pharmaceutical Science*, 2017-11-01, 7, 11, pp. 180-183., Registrované v: SCOPUS
- ABC14 SCHILLER, Jürgen - VOLPI, Nikola - HĚABÁROVÁ, 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.(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 hyaluronan, synoviocyty a chondrocyty).
Citácie:
1. [1.2] GAJDZIOK, J. - PECHOVÁ, V. *Possibilities of using sodium hyaluronate in pharmaceutical and medical fields. [Možnosti využitia hyaluronátu sodného vo farmácii a medicíne]* In *CESKA A SLOVENSKA FARMACIE*. ISSN 1210-7816, 2017, vol. 66, no. 4, p. 154-159., Registrované v: SCOPUS
2. [1.2] JAFARI, S. - AHMADIAN, E. - FARD, J.K. - YARI KHOSROUSHAHI, A. *Biomacromolecule based nanoscaffolds for cell therapy.* In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2017, vol. 37, p. 61-66., Registrované v: SCOPUS
- ABC15 ŠIMKOVIC, Ivan. Trends in thermal stability study of chemically modified lignocellulose materials. In *Polymer Degradation and Stability Research Developments.* - Hauppauge : Nova Science Publishers, 2007, p.217-236. ISBN 978-60021-827-9.
Citácie:
1. [1.1] GALLOS, Antoine - PAES, Gabriel - ALLAIS, Florent - BEAUGRAND, Johnny. *Lignocellulosic fibers: a critical review of the extrusion process for enhancement of the properties of natural fiber composites.* In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 55, pp. 34638-34654., Registrované v: WOS
- ABC16 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.
Citácie:
1. [1.2] GRUNWALD, Peter. *Glycoconjugates: A brief overview.* In *Handbook of Carbohydrate-Modifying Biocatalysts*, 2016-07-11, 2, pp. 29-146., Registrované v: SCOPUS

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] BONORA, Beatrice - BOOS, Irene - CLAUSEN, Mads H. *Convergent strategy for the synthesis of S-linked oligoxylans.* In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol.

- 443, no., pp. 53-57., Registrované v: WOS
2. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleracea*). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS
3. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan Ethers. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS
4. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In *BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS*, 2017, vol., no., pp. 475-511., Registrované v: WOS
5. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS
6. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

*ADC Vedecké práce v zahraničných karentovaných časopisoch

- ADC01 ALEXU, P. - KOSIKOVA, Božena - POLÓNYI, J. - PODSTRANSKA, G. The effect of blending lignin with polyethylene and polypropylene on physical properties. In *Polymer : the international journal for the science and technology of polymers*, 2000, vol. 41, p. 4901-4908. (1.340 - IF1999). (2000 - Current Contents). ISSN 0032-3861.
- Citácie:
1. [1.1] CHILE, L.E. - EBRAHIMI, T. - WONG, A. - ALUTHGE, D. C. - HATZIKIRIAKOS, S. G. - MEHRKHODAVANDI, P. Impact of aryloxy initiators on the living and immortal polymerization of lactide. In *DALTON TRANSACTIONS*. ISSN 1477-9226, 2017, vol. 46, no. 20, pp. 6723-6733., Registrované v: WOS
2. [1.1] DEHNE, Laura - VILA, Carlos - SAAKE, Bodo - SCHWARZ, Katrin U. Esterification of Kraft lignin as a method to improve structural and mechanical properties of lignin-polyethylene blends. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 11, pp., Registrované v: WOS
3. [1.1] DICK, Teo Atz - COUVE, Joel - GIMELLO, Olinda - MAS, Andre - ROBIN, Jean-Jacques. Chemical modification and plasma-induced grafting of pyrolytic lignin. Evaluation of the reinforcing effect on lignin/poly(L-lactide) composites. In *POLYMER*. ISSN 0032-3861, 2017, vol. 118, no., pp. 280-296., Registrované v: WOS
4. [1.1] GHOZALI, M. - TRIWULANDARI, E. - HARYONO, A. - YUANITA, E. Effect of lignin on morphology, biodegradability, mechanical and thermal properties of low linear density polyethylene/lignin biocomposites. In *INNOVATION IN POLYMER SCIENCE AND TECHNOLOGY 2016 (IPST 2016)*. ISSN 1757-8981, 2017, vol. 223, no., pp., Registrované v: WOS
5. [1.1] HUANG, Caoxing - HE, Juan - NARRON, Robert - WANG, Yuhua - YONG, Qiang. Characterization of Kraft Lignin Fractions Obtained by Sequential Ultrafiltration and Their Potential Application as a Biobased Component in Blends with Polyethylene. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 12, pp. 11770-11779., Registrované v: WOS
6. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
7. [1.1] KIRSCHWENG, Balazs - VOROS, Benedek - TATRAALJAI, Dora - ZSUGA, Miklos - FOLDES, Eniko - PUKANSZKY, Bela. Natural antioxidants as melt stabilizers for PE: Comparison of silymarin and quercetin. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 90, no., pp. 456-466., Registrované v: WOS
8. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
9. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016,

vol., no., pp. 221-261., Registrované v: WOS

10. [1.1] LU, Chunhong - BLACKWELL, Charles - REN, Qingyuan - FORD, Ericka. Effect of the Coagulation Bath on the Structure and Mechanical Properties of Gel-Spun Lignin/Poly(vinyl alcohol) Fibers. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 4, pp. 2949-2959., Registrované v: WOS

11. [1.1] LUO, Shupin - CAO, Jinzhen - MCDONALD, Armando G. Esterification of industrial lignin and its effect on the resulting poly(3-hydroxybutyrate-co-3-hydroxyvalerate) or polypropylene blends. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 281-291., Registrované v: WOS

12. [1.1] MALDHURE, Atul V. - EKHE, Jayant D. Effect of modifications of lignin on thermal, structural, and mechanical properties of polypropylene/modified lignin blends. In JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS. ISSN 0892-7057, 2017, vol. 30, no. 5, pp. 625-645., Registrované v: WOS

13. [1.1] MIAO, Chuanwei - HAMAD, Wadood Y. Controlling lignin particle size for polymer blend applications. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 14, pp., Registrované v: WOS

14. [1.1] NIARAKI, Pouria Rezaee - LATIBARI, Ahmad Jahan - RASHNO, Arash - TAJDINI, Ajang. The interaction of delignification and fiber characteristics on the mechanical properties of old corrugated container fiber/polypropylene composite. In SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS. ISSN 0792-1233, 2017, vol. 24, no. 1, pp. 35-40., Registrované v: WOS

15. [1.1] WESTWOOD, Nicholas J. - PANOVIC, Isabella - LANCEFIELD, Christopher S. Chemical Modification of Lignin for Renewable Polymers or Chemicals. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 183-216., Registrované v: WOS

16. [1.2] KLAPISZEWSKI, Lukasz - JESIONOWSKI, Teofil. Novel lignin-based materials as products for various applications. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 519-554., Registrované v: SCOPUS

ADC02

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

Citácie:

1. [1.1] HU, Zhubin - ZHOU, Bin - SUN, Zhenrong - SUN, Haitao. Prediction of Excited-State Properties of Oligoacene Crystals Using Polarizable Continuum Model-Tuned Range-Separated Hybrid Functional Approach. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 9, pp. 569-575., Registrované v: WOS

2. [1.1] VON RUDORFF, Guido F. - WATERMANN, Tobias - GUO, Xiang-Yang - SEBASTIANI, Daniel. Conformational Space of a Polyphilic Molecule with a Fluorophilic Side Chain Integrated in a DPPC Bilayer. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 9, pp. 576-583., Registrované v: WOS

ADC03

EBRINGEROVÁ, Anna - NOVOTNÁ, 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. (0.896 - IF1995). (1996 - Current Contents). ISSN 0021-8995.

Citácie:

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

2. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADC04

KOSIKOVA, Božena - DEMIANOVA, V. - KAČURÁKOVÁ, Marta. Sulfur-free lignins as composites of polypropylene films. In Journal of Applied Polymer Science, 1993, vol. 47, no. 6, p. 1065-1073. ISSN 0021-8995.

Citácie:

1. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS

2. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS

ADC05

NOSÁLOVÁ, G. - KARDOSOVÁ, Alžbeta - FRANOVA, S.. Antitussive activity of a

glucuronoxylan from *Rudbeckia fulgida* compared to the potency of two polysaccharide complexes from the same herb. In *Pharmazie*, 2000, vol. 55, p. 65-68. (0.446 - IF1999). (2000 - Current Contents).

Citácie:

1. [1.1] DA SILVA-LEITE, Kaira E. S. - ASSREUY, Ana M. S. - MENDONCA, Laryssa F. - DAMASCENO, Luis E. A. - DE QUEIROZ, Maria G. R. - MOURAO, Paulo A. S. - PIRES, Alana F. - PEREIRA, Maria G. Polysaccharide rich fractions from barks of *Ximenia americana* inhibit peripheral inflammatory nociception in mice Antinociceptive effect of *Ximenia americana* polysaccharide rich fractions. In *REVISTA BRASILEIRA DE FARMACOGNOSIA-BRAZILIAN JOURNAL OF PHARMACOGNOSY*. ISSN 0102-695X, 2017, vol. 27, no. 3, pp. 339-345., Registrované v: WOS

2. [1.1] MOLDOVAN, Zenovia - BULEANDRA, Mihaela - OPREA, Eliza - MINEA, Zamfirica. Studies on Chemical Composition and Antioxidant Activity of *Rudbeckia triloba*. In *JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY*. ISSN 2090-8865, 2017, vol., no., pp., Registrované v: WOS

3. [1.2] Les, D. H. (2017). In *Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics* (CRC Press, pp. 1-1334), Registrované v: SCOPUS

ADC06

TVAROSKA, Igor - GAJDOS, Jan. Angular dependence of vicinal carbon-proton coupling constants for the conformational studies of hydroxymethyl group in carbohydrates. In *Carbohydrate Research*, 1995, vol. 271, p. 151162. (1995 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] FUKUDA, Yuichiro - MIYAMAE, Kohei - SASANUMA, Yuji. Computational design of polymers: poly(ester amide) and polyurethane. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 61, pp. 38387-38398., Registrované v: WOS

2. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS

3. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In *HELVETICA CHIMICA ACTA*. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01

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).

Citácie:

1. [1.1] KADISCH, Marvin - WILLRODT, Christian - HILLEN, Michael - BUEHLER, Bruno - SCHMID, Andreas. Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS

2. [1.1] MARESOVA, Helena - PALYZOVA, Andrea - PLACKOVA, Martina - GRULICH, Michal - RAJASEKAR, Vyasa Williams - STEPANEK, Vaclav - KYSLIKOVA, Eva - KYSLIK, Pavel. Potential of *Pichia pastoris* for the production of industrial penicillin G acylase. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2017, vol. 62, no. 5, pp. 417-424., Registrované v: WOS

3. [1.1] SCHWARZHANS, Jan-Philipp - LUTTERMANN, Tobias - GEIER, Martina - KALINOWSKI, Joern - FRIEHS, Karl. Towards systems metabolic engineering in *Pichia pastoris*. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2017, vol. 35, no. 6, pp. 681-710., Registrované v: WOS

ADCA02

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. (1.768 - IF2010). (2011 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] ZHENG, Junxian - YANG, Taowei - ZHOU, Junping - XU, Meijuan - ZHANG, Xian - RAO, Zhiming - YANG, Shangtian. Efficient production of D-amino acid oxidase in *Escherichia coli* by a trade-off between its expression and biomass using N-terminal modification. In *BIORESOURCES TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 243, no., pp. 716-723., Registrované v: WOS

ADCA03

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

Citácie:

1. [1.1] YUAN, Haibin - ZHAO, Xinyang - GE, Siyan - HUANG, Xing - LIU, Jinghao - WANG, Yong. A NEW TYPE OF MYTHIMNA SEPARATA (LEPIDOPTERA: NOCTUIDAE) ANTENNAL SENSILLA. In ENTOMOLOGICAL NEWS. ISSN 0013-872X, 2017, vol. 127, no. 1, pp. 11-20., Registrované v: WOS

ADCA04

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. (2.624 - IF2015). (2016 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS

2. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

3. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In EXTREMOPHILES. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

4. [1.1] ZHU, Yan - HASSAN, Yousef I. - LEPP, Dion - SHAO, Suqin - ZHOU, Ting. Strategies and Methodologies for Developing Microbial Detoxification Systems to Mitigate Mycotoxins. In TOXINS. ISSN 2072-6651, 2017, vol. 9, no. 4, pp., Registrované v: WOS

ADCA05

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. (3.653 - IF2011). (2012 - Current Contents). ISSN 0006-3495.

Citácie:

1. [1.1] KHONDKER, Adree - ALSOP, Richard J. - RHEINSTADTER, Maikel C. Membrane-Accelerated Amyloid-beta Aggregation and Formation of Cross-beta Sheets. In MEMBRANES. ISSN 2077-0375, 2017, vol. 7, no. 3, pp., Registrované v: WOS

2. [1.1] PARIKH, Niyati - KLIMOV, Dmitri K. Inclusion of lipopeptides into the DMPC lipid bilayers prevents A beta peptide insertion. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 15, pp. 10087-10098., Registrované v: WOS

3. [1.1] SCHNEIDER, Mario - WALTA, Stefan - CADEK, Chris - RICHTER, Walter - WILLBOLD, Dieter. Fluorescence correlation spectroscopy reveals a cooperative unfolding of monomeric amyloid-beta 42 with a low Gibbs free energy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

4. [1.2] Group Author(s): Uniprot Consortium. O97432. In: www.uniprot.org/uniprot/O97432, Registrované v: SCOPUS

ADCA06

ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Polyphosphate - an ancient energy source and active metabolic regulator. In Microbial Cell Factories, 2011, vol. 10, article 63. (4.544 - IF2010). ISSN 1475-2859.

Citácie:

1. [1.1] CAO, Hao - NIE, Kaili - LI, Chengcheng - XU, Haijun - WANG, Fang - TAN, Tianwei - LIU, Luo. Rational design of substrate binding pockets in polyphosphate kinase for use in cost-effective ATP-dependent cascade reactions. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5325-5332., Registrované v: WOS

2. [1.1] DANCHIN, Antoine. From chemical metabolism to life: the origin of the genetic coding process. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2017, vol. 13, no., pp. 1119-1135., Registrované v: WOS

3. [1.1] DING, Qingbao - OU, Ling. NTP Regeneration and its Application in the Biosynthesis of Nucleotides and their Derivatives. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6936-6947., Registrované v: WOS

4. [1.1] HANCOCK, Edward J. - ANG, Jordan - PAPACHRISTODOULOU, Antonis - STAN, Guy-Bart. The Interplay between Feedback and Buffering in Cellular Homeostasis. In CELL SYSTEMS. ISSN 2405-4712, 2017, vol. 5, no. 5, pp. 498-+, Registrované v: WOS

5. [1.1] KULMER, Sandra T. - GUTMANN, Alexander - LEMMERER, Martin - NIDETZKY, Bernd. Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 2, pp. 292-301., Registrované v: WOS
6. [1.1] MOUDRIKOVA, Sarka - SADOWSKY, Andres - METZGER, Sabine - NEDBAL, Ladislav - METTLER-ALTMANN, Tabea - MOJZES, Peter. Quantification of Polyphosphate in Microalgae by Raman Microscopy and by a Reference Enzymatic Assay. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 22, pp. 12006-12013., Registrované v: WOS
7. [1.1] PARVEEN, Shafaq - CHEN, Biqiang - LIU, Luo - TAN, Tianwei. Enzymatic phosphorylation of mannose by glucomannokinase from *Mycobacterium phlei* using inorganic polyphosphate. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 104, no., pp. 16-21., Registrované v: WOS
8. [1.1] TARAYRE, Cedric - CHARLIER, Raphaëlle - DELEPIERRE, Anissa - BROGNAUX, Alison - BAUWENS, Julien - FRANCIS, Frederic - DERMIENCE, Michael - LOGNAY, Georges - TAMINIAU, Bernard - DAUBE, Georges - COMPERE, Philippe - MEERS, Erik - MICHEL, Evi - DELVIGNE, Frank. Looking for phosphate-accumulating bacteria in activated sludge processes: a multidisciplinary approach. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 9, pp. 8017-8032., Registrované v: WOS
9. [1.1] WANG, Liang - LIU, Zhazhong - DAI, Shiyun - YAN, Jiawei - WISE, Michael J. The Sit-and-Wait Hypothesis in Bacterial Pathogens: A Theoretical Study of Durability and Virulence. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
10. [1.1] WANG, Liang - LIU, Zhazhong - DAI, Shiyun - YAN, Jiawei - WISE, Michael J. The Sit-and-Wait Hypothesis in Bacterial Pathogens: A Theoretical Study of Durability and Virulence. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
11. [1.1] XU, Mengmeng - ZHAO, Jingbo - YU, Le - YANG, Shang-Tian. Comparative genomic analysis of *Clostridium acetobutylicum* for understanding the mutations contributing to enhanced butanol tolerance and production. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 263, no., pp. 36-44., Registrované v: WOS
12. [1.2] CROUZET, Marc - CLAVEROL, Stéphane - LOMENECH, Anne Marie - LE SÉNÉCHAL, Caroline - COSTAGLIOLI, Patricia - BARTHE, Christophe - GARBAY, Bertrand - BONNEU, Marc - VILAIN, Sébastien. *Pseudomonas aeruginosa* cells attached to a surface display a typical proteome early as 20 minutes of incubation. In *PLoS ONE*, 2017-07-01, 12, 7, pp., Registrované v: SCOPUS

ADCA07 ACHBERGEROVÁ, Lucia - NAHÁLKA, Jozef. Degradation of polyphosphates by polyphosphate kinases from *Ruegeria pomeroyi*. In *Biotechnology Letters*, 2014, vol. 36, p. 2029-2035. (1.736 - IF2013). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492.

Citácie:

1. [1.2] CHI, Won Jae - KIM, Jong Hee - PARK, Jae Seon - HONG, Soon Kwang. Identification of a new marine bacterium *Ruegeria* sp. 50C-3 isolated from seawater of Uljin in Korea and production of thermostable enzymes. In *Korean Journal of Microbiology*. ISSN 04402413, 2016-01-01, 52, 3, pp. 344-344., Registrované v: SCOPUS

ADCA08 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.

Citácie:

1. [1.1] BORUTINSKAITE, Veronika - TREIGYTE, Grazina - MATUZEVICIUS, Dalius - ZAIKOVA, Ilona - CEKSTERYTE, Violeta - NAVAKAUSKAS, Dalius - KURTINAITIENE, Bogumila - NAVAKAUSKIENE, Ruta. PROTEOMIC ANALYSIS OF POLLEN AND BLOSSOM HONEY FROM RAPE SEED BRASSICA NAPUS L. In *JOURNAL OF APICULTURAL SCIENCE*. ISSN 1643-4439, 2017, vol. 61, no. 1, pp. 73-92., Registrované v: WOS
2. [1.1] BURGGREN, Warren W. Epigenetics in Insects: Mechanisms, Phenotypes and Ecological and Evolutionary Implications. In *INSECT EPIGENETICS*. ISSN 0065-2806, 2017, vol. 53, no., pp. 1-30., Registrované v: WOS
3. [1.1] NIE, Hongyi - LIU, Xiaoyan - PAN, Jiao - LI, Wenfeng - LI, Zhiguo - ZHANG, Shaowu - CHEN, Shenglu - MIAO, Xiaoqing - ZHENG, Nenggan - SU, Songkun. Identification of genes related to high royal jelly production in the honey bee (*Apis mellifera*) using microarray analysis. In *GENETICS AND MOLECULAR BIOLOGY*. ISSN 1415-4757, 2017, vol. 40, no. 4, pp. 781-789., Registrované v: WOS
4. [1.1] YUAN, Shi-Min. Cardiovascular effects of the edible immune enhancing products. In *PROGRESS IN NUTRITION*. ISSN 1129-8723, 2017, vol. 19, no. 4, pp. 349-358., Registrované v: WOS
5. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU, Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from Fresh Royal Jelly in Mice. In *Journal of Chinese*

- Institute of Food Science and Technology. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v: SCOPUS*
- 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. ISSN 0021-8839.
- Citácie:
1. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In *Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS*
- ADCA10 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.
- Citácie:
1. [1.1] LEE, Si Hyeock - KIM, Young Ho. Comparative proteome analysis of honey bee workers between overwintering and brood-rearing seasons. In *JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, 2017, vol. 20, no. 3, pp. 984-995., Registrované v: WOS*
- ADCA11 ALBERT, S. - KLAUDINY, Jaroslav - ŠIMÚTH, J. Newly discovered features of the updated sequence of royal jelly protein RJP571; longer repetitive region on C-terminus and homology to *Drosophila melanogaster* yellow protein. In *Journal of Apicultural Research*, 1996, vol. 35, p. 63-68. ISSN 0021-8839.
- Citácie:
1. [1.2] Group Author(s): Uniprot Consortium. Q17060. In: *UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: WOS*
- ADCA12 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.
- Citácie:
1. [1.1] CHIU, Hui-Fang - CHEN, Bo-Kai - LU, Yan-Ying - HAN, Yi-Chun - SHEN, You-Cheng - VENKATAKRISHNAN, Kamesh - GOLOVINSKAIA, Oksana - WANG, Chin-Kun. Hypocholesterolemic efficacy of royal jelly in healthy mild hypercholesterolemic adults. In *PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 497-502., Registrované v: WOS*
2. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three *Apis* species with long amplicon sequencing. In *DNA RESEARCH. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287., Registrované v: WOS*
3. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In *BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS*
4. [1.1] YOU, Zhengying - QIAN, Qiujie - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In *TRANSGENIC RESEARCH. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS*
5. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU, Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from Fresh Royal Jelly in Mice. In *Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v: SCOPUS*
6. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical composition of royal jelly. In *Bee Products Chemical and Biological Properties, 2017-09-05, pp. 181-190., Registrované v: SCOPUS*
- ADCA13 ALBRECHT, Claudia - VON DER KAMMER, Heinz - MAYHAUS, Manuel - KLAUDINY, Jaroslav - SCHWEIZER, Michaela - NITSCH, R.M. Muscarinic acetylcholine receptors induce the expression of the immediate early growth regulatory gene CYR61. In *Journal of Biological Chemistry*, 2000, vol. 275, p. 28929-28936. (6.963 - IF1999). (2000 - Current Contents). ISSN 0021-9258.
- Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. O00622. In: *UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O00622>, Registrované v: WOS*
2. [1.1] Group Author(s): Uniprot Consortium. Q9ES72. In: *UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9ES72>, Registrované v: WOS*

- ADCA14 3. [1.1] JAYAKUMAR, A. R. - APEKSHA, A. - NORENBURG, M. D. *Role of Matricellular Proteins in Disorders of the Central Nervous System*. In *NEUROCHEMICAL RESEARCH*. ISSN 0364-3190, 2017, vol. 42, no. 3, pp. 858-875., Registrované v: WOS
- ALEXYY, Pavol - KOŠÍKOVÁ, Božena - CRKONOVÁ, Gabriela - GREGOROVÁ, Adriana - MARTIŠ, Pavol. Modification of lignin-polyethylene blends with high lignin content using ethylene-vinylacetate copolymer as modifier. In *Journal of Applied Polymer Science*, 2004, vol. 94, p. 1855-1860. (1.017 - IF2003). (2004 - Current Contents). ISSN 0021-8995.
- Citácie:
- [1.1] KUN, David - PUKANSZKY, Bela. *Polymer/lignin blends: Interactions, properties, applications*. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS
 - [1.1] MALDHURE, Atul V. - EKHE, Jayant D. *Effect of modifications of lignin on thermal, structural, and mechanical properties of polypropylene/modified lignin blends*. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, 2017, vol. 30, no. 5, pp. 625-645., Registrované v: WOS
 - [1.1] SZABO, Gabor - ROMHANYI, Vivien - KUN, David - RENNER, Karoly - PUKANSZKY, Bela. *Competitive Interactions in Aromatic Polymer/lignosulfonate Blends*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 1, pp. 410-419., Registrované v: WOS
- ADCA15 ALI, S.T. - JAHANGIR, S. - KARAMAT, S. - FABIAN, W.M.F. - NAWARA, Krzysztof Kamil - KÓNA, 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. (4.804 - IF2009). (2010 - Current Contents). ISSN 1549-9618.
- Citácie:
- [1.1] BORTOLI, Marco - TORSELLO, Mauro - BICKELHAUPT, F. Matthias - ORIAN, Laura. *Role of the Chalcogen (S, Se, Te) in the Oxidation Mechanism of the Glutathione Peroxidase Active Site*. In *CHEMPHYSCHEM*. ISSN 1439-4235, 2017, vol. 18, no. 21, pp. 2990-2998., Registrované v: WOS
- ADCA16 ALI, S. Tahir - KARAMAT, Sajjad - KÓNA, 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. (2.899 - IF2009). (2010 - Current Contents). ISSN 1089-5639.
- Citácie:
- [1.1] GEFFERTOVA, Denisa - ALI, Syed Tahir - SOLINOVA, Veronika - KRECMEROVA, Marcela - HOLY, Antonin - HAVLAS, Zdenek - KASICKA, Vaclav. *Investigation of the acid-base and electromigration properties of 5-azacytosine derivatives using capillary electrophoresis and density functional theory calculations*. In *JOURNAL OF CHROMATOGRAPHY A*. ISSN 0021-9673, 2017, vol. 1479, no., pp. 185-193., Registrované v: WOS
- ADCA17 ALTANER, Clemens - SAAKE, Bodo - TENKANEN, Maija - EYZAGUIRRE, Jaime - FAULDS, Craig B. - BIELY, Peter - VIIKARI, Liisa - SIHKA-AHO, Matti - PULS, Jurgen. 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.
- Citácie:
- [1.1] SHIRKE, Abhijit N. - BUTTERFOSS, Glenn L. - SAIKIA, Rakhi - BASU, Aditya - DE MARIA, Leonardo - SVENDSEN, Allan - GROSS, Richard A. *Engineered Humicola insolens cutinase for efficient cellulose acetate deacetylation*. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS
 - [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. *Development of Escherichia coli Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters*. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
- ADCA18 ANDRE, I. - MAZEAU, K. - TARAVEL, F.R. - TVAROSKA, Igor. Conformation and dynamics of a cyclic (1-2)- α -D-glucan. In *International Journal of Biological Macromolecules*, 1995, vol. 17, p. 189. ISSN 0141-8130.
- Citácie:
- [1.1] HU, Yiluo - KIM, Hwanhee - SHINDE, Vijay Vilas - JEONG, Daham - CHOI, Youngjin - CHO, Eunae - JUNG, Seunho. *Carboxymethyl cyclophosphates as a flexible pH-responsive solubilizer for pindolol*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 493-501., Registrované v: WOS
- ADCA19 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. (3.155 - IF1995). (1996 - Current Contents). ISSN 0024-9297.

Citácie:

1. [1.1] ARAUJO-DIAZ, S. B. - LEYVA-PORRAS, C. - AGUIRRE-BANUELOS, P. - ALVAREZ-SALAS, C. - SAAVEDRA-LEOS, Z. *Evaluation of the physical properties and conservation of the antioxidants content, employing inulin and maltodextrin in the spray drying of blueberry juice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 317-325., Registrované v: WOS*

2. [1.1] GIRI, Apurba - KANAWJIA, Suresh Kumar - SINGH, Mukesh Pratap. *Effect of inulin on physico-chemical, sensory, fatty acid profile and microstructure of processed cheese spread. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 8, pp. 2443-2451., Registrované v: WOS*

3. [1.1] WANG, Lixin - BARCLAY, Thomas - SONG, Yunmei - JOYCE, Paul - SAKALA, Isaac G. - PETROVSKY, Nikolai - GARG, Sanjay. *Investigation of the biodistribution, breakdown and excretion of delta inulin adjuvant. In VACCINE. ISSN 0264-410X, 2017, vol. 35, no. 34, pp. 4382-4388., Registrované v: WOS*

ADCA20 ANTAL, M. - EBRINGEROVÁ, Anna - ŠIMKOVIC, Ivan. New aspects in cationization of lignocellulose materials I. In *Journal of Applied Polymer Science*, 1984, vol. 29, p. 637-642. ISSN 0021-8995.

Citácie:

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

ADCA21 ANTAL, M. - ŠIMKOVIC, Ivan - EBRINGEROVÁ, Anna - MICKO, M. New aspects in cationization of lignocellulose materials. 4. Modification of aspen wood meal with quaternary ammonium groups. In *Journal of Applied Polymer Science*, 1986, vol. 31, p. 621-625. ISSN 0021-8995.

Citácie:

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

ADCA22 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.

Citácie:

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

ADCA23 ANTAL, Miroslav - EBRINGEROVÁ, Anna - MICKO, M.M. Cationic hemicelluloses from aspen wood flour and their use in paper production. In *Das Papier*, 1991, vol.45, 232-235.

Citácie:

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

ADCA24 ANTONOV, Y.A. - LASHKO, N.P. - GLOTOVA, Y.K. - MALOVÍKOVÁ, Anna - MARKOVIČ, Oskar. Effect of the structural features of pectins and alginates on their thermodynamic compatibility with gelatin in aqueous media. In *Food Hydrocolloids*, 1996, vol. 10, p. 1-9. ISSN 0268-005X.

Citácie:

1. [1.2] TOLSTOGUZOV, Vladimir. *Phase behavior in mixed polysaccharide systems. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 589-627., Registrované v: SCOPUS*

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

ADCA25 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. (4.460 - IF2015). (2016 - Current Contents). ISSN 1462-5814.

Citácie:

1. [1.1] GEOGHEGAN, Ivey - STEINBERG, Gero - GURR, Sarah. *The Role of the Fungal Cell Wall in the Infection of Plants. In TRENDS IN MICROBIOLOGY. ISSN 0966-842X, 2017, vol. 25, no. 12, pp. 957-967., Registrované v: WOS*

2. [1.1] GOW, Neil A. R. - LATGE, Jean-Paul - MUNRO, Carol A. *The Fungal Cell Wall: Structure, Biosynthesis, and Function*. In *MICROBIOLOGY SPECTRUM*, 2017, vol. 5, no. 3, pp., Registrované v: WOS
3. [1.2] POPOLO, Laura - DEGANI, Genny - CAMILLONI, Carlo - FONZI, William A. *The PHR family: The role of extracellular transglycosylases in shaping Candida albicans cells*. In *Journal of Fungi*, 2017-12-01, 3, 4, pp., Registrované v: SCOPUS
- ADCA26 BABINCOVÁ, M. - ALTANEROVÁ, Veronika - LAMPERT, M. - ALTANER, Čestmír - MACHOVÁ, Eva - ŠRÁMKA, M. - BABINEC, P. Site-specific in vivo targeting of magnetoliposomes using externally applied magnetic field. In *Zeitschrift für Naturforschung C - A Journal of biosciences*, 2000, vol. 55, no. 3-4, p. 278-281.
- Citácie:
1. [1.2] KUMAR, Vijay. *Target-oriented drug delivery systems*. In *Modern Pharmaceutics: Fifth Edition*, 2016-04-19, 2-2, pp. 329-398., Registrované v: SCOPUS
2. [1.2] SWAIN, Suryakanta - PATRA, Chinam Niranjan - RAO, Muddana Eswara - SAHU, Prafulla Kumar. *Magnetically modulated drug delivery systems*. In *Pharmaceutical Drug Delivery Systems and Vehicles*, 2016-02-03, pp. 267-296., Registrované v: SCOPUS
- ADCA27 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] FRANCIOSO, Antonio - DINARELLI, Simone - GIRASOLE, Marco - CERVONI, Laura - D'ERME, Maria - MURA, Francesco - BOFFI, Alberto - MONTANARI, Elita - MOSCA, Luciana. *Behind Resveratrol Stabilization by Carboxymethylated (1,3/1,6)-beta-D-Glucan: Does the Polyphenol Play a Role in Polymer Structural Organization?* In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
- ADCA28 BABINCOVÁ, Melánia - MACHOVÁ, Eva - KOGAN, Grigorij. Carboxymethylated glucan inhibits lipid peroxidation in liposomes. In *Zeitschrift für Naturforschung C*, 1999, vol. 54, p. 1084-1088. ISSN 0939-5075.
- Citácie:
1. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying - ZHOU, Lu - HUANG, Shiqi - LI, Hui. *The antioxidant activities of six (1> 3)-beta-D-glucan derivatives prepared from yeast cell wall*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS
- ADCA29 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.
- Citácie:
1. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. *Therapeutic Properties of Bioactive Compounds from Different Honeybee Products*. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] ELHAG, Osama - ZHOU, Dingzhong - SONG, Qi - SOOMRO, Abdul Aziz - CAI, Minmin - ZHENG, Longyu - YU, Ziniu - ZHANG, Jibin. *Screening, Expression, Purification and Functional Characterization of Novel Antimicrobial Peptide Genes from *Hermetia illucens* (L.)*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
3. [1.1] MARIA ALONSO-SALCES, Rosa - MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - AUBONE, Ines - GISELLE DE PIANO, Fiorella - ANTUNEZ, Karina - ROSA FUSELLI, Sandra. *Natural strategies for the control of *Paenibacillus* larvae, the causative agent of American foulbrood in honey bees: a review*. In *APIDOLOGIE*. ISSN 0044-8435, 2017, vol. 48, no. 3, pp. 387-400., Registrované v: WOS
4. [1.1] MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - ROSA FUSELLI, Sandra - MARIA ALONSO-SALCES, Rosa. *OPTIMAL CONCENTRATION OF ORGANIC SOLVENTS TO BE USED IN THE BROTH MICRODILUTION METHOD TO DETERMINE THE ANTIMICROBIAL ACTIVITY OF NATURAL PRODUCTS AGAINST PAENIBACILLUS LARVAE*. In *JOURNAL OF APICULTURAL SCIENCE*. ISSN 1643-4439, 2017, vol. 61, no. 1, pp. 37-53., Registrované v: WOS
5. [1.2] Fuselli, S. R., Cugnata, N. M., Martínez, P. G., & Alonso-Salces, R. M. (2017). *In Control and Prevention of American Foulbrood in Honey Bees* (Nova Science Publishers, pp. 1-128), Registrované v: SCOPUS
- ADCA30 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.
- Citácie:
1. [1.1] ADHYARU, Dharmesh N. - BHATT, Nikhil S. - MODI, H. A. - DIVECHA, Jyoti.

- Cellulase-free-thermo-alkali-solvent-stable xylanase from Bacillus altitudinis DHN8: Over-production through statistical approach, purification and bio-deinking/ bio-bleaching potential. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 12, no., pp. 220-227., Registrované v: WOS*
2. [1.1] AJIJOLAKEWU, Kamoldeen A. - LEHA, Cheu Peng - LEE, Chee Keong - NADIAH, Wan Abdullah Wan. Characterization of novel *Trichoderma* hemicellulase and its use to enhance downstream processing of lignocellulosic biomass to simple fermentable sugars. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 166-175., Registrované v: WOS*
3. [1.1] AL LOMAN, Abdullah - ISLAM, S. M. Mahfuzul - LI, Qian - JU, Lu-Kwang. Enzyme recycle and fed-batch addition for high-productivity soybean flour processing to produce enriched soy protein and concentrated hydrolysate of fermentable sugars. In *BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 241, no., pp. 252-261., Registrované v: WOS*
4. [1.1] ALI, Sameh Samir - WU, Jian - XIE, Rongrong - ZHOU, Feng - SUN, Jianzhong - HUANG, Miao. Screening and characterizing of xylanolytic and xylose-fermenting yeasts isolated from the wood-feeding termite, *Reticulitermes chinensis*. In *PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 7, pp., Registrované v: WOS*
5. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - JOSE NEGRO, Maria - BALLESTEROS, Ignacio - MIGUEL OLIVA, Jose - SAEZ, Felicia. Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 41-48., Registrované v: WOS*
6. [1.1] ANBARASAN, Sasikala - WAHLSTROM, Ronny - HUMMEL, Michael - OJAMO, Heikki - SIXTA, Herbert - TURUNEN, Ossi. High stability and low competitive inhibition of thermophilic *Thermopolyspora flexuosa* GH10 xylanase in biomass-dissolving ionic liquids. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1487-1498., Registrované v: WOS*
7. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In *FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS*
8. [1.1] ARCHANA, Gautam - AMIT, Kumar - DHARM, Dutt. Production and Characterization of Cellulase-free Xylanase by *Aspergillus flavus* ARC-12 and its application in pre-bleaching of Ethanol-Soda Pulp of *Eulaliopsis binata*. In *RESEARCH JOURNAL OF BIOTECHNOLOGY. ISSN 2278-4535, 2017, vol. 12, no. 8, pp. 63-71., Registrované v: WOS*
9. [1.1] ASEM, Dhaneshwaree - LEO, Vincent Vineeth - PASSARI, Ajit Kumar - TONSING, Mary Vanlalhrui - JOSHI, J. Beslin - UTHANDI, Sivakumar - HASHEM, Abeer - ABD ALLAH, Elsayed Fathi - SINGH, Bhim Pratap. Evaluation of gastrointestinal bacterial population for the production of holocellulose enzymes for biomass deconstruction. In *PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS*
10. [1.1] BANDIKARI, Ramesh - KATIKE, Umamahesh - SEELAM, Naga Sivudu - OBULAM, Vijaya Sarathi Reddy. Valorization of de-oiled cakes for xylanase production and optimization using central composite design by *Trichoderma koeningi* isolate. In *TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI. ISSN 0250-4685, 2017, vol. 42, no. 3, pp. 317-328., Registrované v: WOS*
11. [1.1] BEDADE, Dattatray - BEREZINA, Oksana - SINGHAL, Rekha - DESKA, Jan - SHAMEKH, Salem. Extracellular xylanase production from a new xylanase producer *Tuber maculatum* mycelium under submerged fermentation and its characterization. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 288-293., Registrované v: WOS*
12. [1.1] BEDADE, Dattatray - BEREZINA, Oksana - SINGHAL, Rekha - DESKA, Jan - SHAMEKH, Salem. Extracellular xylanase production from a new xylanase producer *Tuber maculatum* mycelium under submerged fermentation and its characterization. In *BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 288-293., Registrované v: WOS*
13. [1.1] BURLACU, Aglaia - ISRAEL-ROMING, Florentina - CORNEA, Calina Petruta. FUNGAL STRAINS IMPROVEMENT FOR XYLANASE OVER PRODUCTION THROUGH PHYSICAL AND CHEMICAL MUTAGENESIS. In *AGROLIFE SCIENTIFIC JOURNAL. ISSN 2285-5718, 2017, vol. 6, no. 1, pp. 40-47., Registrované v: WOS*
14. [1.1] CAKMAKCI, Emrah - YUCE-DURSUN, Basak - DEMIR, Serap. Maleic anhydride functionalization of OSTE based coatings via thiol-ene "Click" reaction for the covalent immobilization of xylanase. In *REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 111, no., pp. 38-43., Registrované v: WOS*
15. [1.1] CARE, Andrew - PETROLL, Kerstin - GIBSON, Emily S. Y. - BERGQUIST, Peter L. - SUNNA, Anwar. Solid-binding peptides for immobilisation of thermostable enzymes to hydrolyse

- biomass polysaccharides. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
16. [1.1] CHANG, Chen-Wei - WEBB, Colin. Production of a generic microbial feedstock for lignocellulose biorefineries through sequential bioprocessing. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 227, no., pp. 35-43., Registrované v: WOS
17. [1.1] CHYLENSKI, Piotr - FORSBERG, Zarah - STAHLBERG, Jerry - VARNAL, Aniko - LERSCH, Martin - BENGTTSSON, Oskar - SAEBO, Solve - HORN, Svein Jarle - ELJSINK, Vincent G. H. Development of minimal enzyme cocktails for hydrolysis of sulfite-pulped lignocellulosic biomass. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 246, no., pp. 16-23., Registrované v: WOS
18. [1.1] DALAGNOL, Luiza M. G. - DAL MAGRO, Lucas - SILVEIRA, Vitoria C. C. - RODRIGUES, Eliseu - MANFROI, Vitor - RODRIGUES, Rafael C. Combination of ultrasound, enzymes and mechanical stirring: A new method to improve Vitis vinifera Cabernet Sauvignon must yield, quality and bioactive compounds. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2017, vol. 105, no., pp. 197-204., Registrované v: WOS
19. [1.1] DALAGNOL, Luiza M. G. - SILVEIRA, Vitoria C. C. - DA SILVA, Halisson Baron - MANFROI, Vitor - RODRIGUES, Rafael C. Improvement of pectinase, xylanase and cellulase activities by ultrasound: Effects on enzymes and substrates, kinetics and thermodynamic parameters. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 61, no., pp. 80-87., Registrované v: WOS
20. [1.1] DE FIGUEIREDO, Franciane Cristina - AZEVEDO CARVALHO, Ana Flavia - BRIENZO, Michel - CAMPIONI, Tania Sila - DE OLIVA-NETO, Pedro. Chemical input reduction in the arabinoxylan and lignocellulose alkaline extraction and xylooligosaccharides production. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 228, no., pp. 164-170., Registrované v: WOS
21. [1.1] DE SOUZA, Elias Luiz - SELLIN, Noeli - MARANGONI, Cintia - SOUZA, Ozair. The Influence of Different Strategies for the Saccharification of the Banana Plant Pseudostem and the Detoxification of Concentrated Broth on Bioethanol Production. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 3, pp. 943-965., Registrované v: WOS
22. [1.1] DHIMAN, Saurabh Sudha - DAVID, Aditi - BRABAND, Vanessa W. - HUSSEIN, Abdulmenan - SALEM, David R. - SANI, Rajesh K. Improved bioethanol production from corn stover: Role of enzymes, inducers and simultaneous product recovery. In *APPLIED ENERGY*. ISSN 0306-2619, 2017, vol. 208, no., pp. 1420-1429., Registrované v: WOS
23. [1.1] DOERING, Clemens - HUSSEIN, Mohamed A. - JEKLE, Mario - BECKER, Thomas. On the assessments of arabinoxylan localization and enzymatic modifications for enhanced protein networking and its structural impact on rye dough and bread. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 229, no., pp. 178-187., Registrované v: WOS
24. [1.1] DONG, Zhen - DING, Zhirong - ZHANG, Shengyi - ZHANG, Yao - FAN, Hongxuan - YANG, Yanyan. Natural Fibers From the Bark of Mulberry Branches for Textile Application. In *FIBRES & TEXTILES IN EASTERN EUROPE*. ISSN 1230-3666, 2017, vol. 25, no. 3, pp. 20-25., Registrované v: WOS
25. [1.1] DOS SANTOS, Tiago T. - O'NEILL, Helen V. Masey - GONZALEZ-ORTIZ, Gemma - CAMACHO-FERNANDEZ, Daniel - LOPEZ-COELLO, Carlos. Xylanase, protease and superdosing phytase interactions in broiler performance, carcass yield and digesta transit time. In *ANIMAL NUTRITION*. ISSN 2405-6383, 2017, vol. 3, no. 2, pp. 121-126., Registrované v: WOS
26. [1.1] FANG, Cheng - WANG, Qinhong - SELVARAJ, Jonathan Nimal - ZHOU, Yuling - MA, Lixin - ZHANG, Guimin - MA, Yanhe. High copy and stable expression of the xylanase XynHB in *Saccharomyces cerevisiae* by rDNA-mediated integration. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
27. [1.1] FITRIA, F. - PUJIYANTO, Sri - RAHARJO, Budi - RAHMANI, Nanik - YOPI, Y. Partial Purification and Characterization of Xylanase Enzyme from Marine Bacterium *Bacillus safensis* strain LBF P20 from Pari Island Jakarta. In *AGRITTECH-JURNAL TEKNOLOGI PERTANIAN*. ISSN 0216-0455, 2017, vol. 37, no. 1, pp. 30-37., Registrované v: WOS
28. [1.1] FRATEBIANCHI, D. - GONZALEZ, M. - TENORIO, C. - CAVALITTO, S. F. - RUIZ-LARREA, F. Characterization and winemaking application of a novel pectin-degrading enzyme complex from *Aspergillus sojae* ATCC 20235. In *VITIS*. ISSN 0042-7500, 2017, vol. 56, no. 2, pp. 85-93., Registrované v: WOS
29. [1.1] GEETHA, Karuppasamy - GUNASEKARAN, Paramasamy. Purification of Endoxylanase from *Bacillus pumilus* B20 for Production of Prebiotic Xylooligosaccharide Syrup; An In vitro Study. In *IRANIAN JOURNAL OF BIOTECHNOLOGY*. ISSN 1728-3043, 2017, vol. 15, no. 4, pp. 232-240., Registrované v: WOS
30. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of

- different fermentation strategies on beta-mannanase production in fed-batch bioreactor system. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
31. [1.1] GONZALEZ-ORTIZ, Gemma - KOZLOWSKI, Krzysztof - DRAZBO, Aleksandra - BEDFORD, Michael R. Response of turkeys fed wheat-barley-rye based diets to xylanase supplementation. In ANIMAL FEED SCIENCE AND TECHNOLOGY. ISSN 0377-8401, 2017, vol. 229, no., pp. 117-123., Registrované v: WOS
32. [1.1] HAN, Xiaolong - LIU, Guodong - SONG, Wenxia - QIN, Yuqi - QU, Yinbo. Continuous feeding of spent ammonium sulphite liquor improves the production and saccharification performance of cellulase by *Penicillium oxalicum*. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 245, no., pp. 984-992., Registrované v: WOS
33. [1.1] JAMPALA, Preethi - TADIKAMALLA, Satish - PREETHI, M. - RAMANUJAM, Swathy - UPPULURI, Kiran Babu. Concurrent production of cellulase and xylanase from *Trichoderma reesei* NCIM 1186: enhancement of production by desirability-based multi-objective method. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
34. [1.1] JESUS, Meirielly S. - ROMANI, Aloia - GENISHEVA, Zlatina - TELXEIRA, Jose A. - DOMINGUES, Lucilia. Integral valorization of vine pruning residue by sequential autohydrolysis stages. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, 2017, vol. 168, no., pp. 74-86., Registrované v: WOS
35. [1.1] JIANG, Fengchao - MA, Lijuan - CAI, Rui - MA, Qing - GUO, Gaojie - DU, Liping - XIAO, Dongguang. Efficient crude multi-enzyme produced by *Trichoderma reesei* using corncob for hydrolysis of lignocellulose. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
36. [1.1] KHALEDI, Nima - TAHERI, Parissa - RASTEGAR, Mahrokh Falahati. Identification, virulence factors characterization, pathogenicity and aggressiveness analysis of *Fusarium* spp., causing wheat head blight in Iran. In EUROPEAN JOURNAL OF PLANT PATHOLOGY. ISSN 0929-1873, 2017, vol. 147, no. 4, pp. 897-918., Registrované v: WOS
37. [1.1] KHAZDZIANI, Tamar - KACHLISHVILI, Eva - SOKHADZE, Kakha - ELISASHVILI, Vladimir - WEEKS, Richard - CHIKINDAS, Michael L. - CHISTYAKOV, Vladimir. Elucidation of *Bacillus subtilis* KATMIRA 1933 Potential for Spore Production in Submerged Fermentation of Plant Raw Materials. In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, 2017, vol. 9, no. 4, pp. 435-443., Registrované v: WOS
38. [1.1] KORKMAZ, Melih N. - OZDEMIR, Sennur C. - UZEL, Atac. Xylanase production from marine derived *Trichoderma pleuroticola* 08CK001 strain isolated from Mediterranean coastal sediments. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, 2017, vol. 57, no. 10, pp. 839-851., Registrované v: WOS
39. [1.1] KUGE, Takayuki - WATANABE, Akira - HASEGAWA, Satoshi - TERAMOTO, Haruhiko - INUI, Masayuki. Functional analysis of arabinofuranosidases and a xylanase of *Corynebacterium alkanolyticum* for arabinoxylan utilization in *Corynebacterium glutamicum*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 5019-5032., Registrované v: WOS
40. [1.1] KUMAR, Varun - HARSH, Nirmal Sudhir Kumar - NAITHANI, Sanjay - THAPLIYAL, Bipin Prakash - SHARMA, Shrikant. Production optimization of alkali-thermo tolerant crude endoglucanase from *Funalia leonina* by response surface methodology. In CURRENT SCIENCE. ISSN 0011-3891, 2017, vol. 113, no. 9, pp. 1750-1754., Registrované v: WOS
41. [1.1] KUMAR, Vishal - CHHABRA, Deepak - SHUKLA, Pratyosh. Xylanase production from *Thermomyces lanuginosus* VAPS-24 using low cost agro-industrial residues via hybrid optimization tools and its potential use for saccharification. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 243, no., pp. 1009-1019., Registrované v: WOS
42. [1.1] LEE, Hanbyul - LEE, Young Min - HEO, Young Mok - LEE, Jaejung - KIM, Jun Seok - KANG, Kyu Young - KIM, Jae-Jin. Utilization of agricultural residues for enhancement of cellulolytic enzyme production and enzymatic saccharification by *Trichoderma harzianum* KUC1716. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 185-191., Registrované v: WOS
43. [1.1] LI, Hailong - WU, Hongli - XIONG, Lian - CHEN, Xuefang - WANG, Can - QI, Gaoliang - HUANG, Chao - GUO, Haijun - LUO, Mutan - LIU, Jian - LONG, Minnan - CHEN, Xinde. The hydrolytic efficiency and synergistic action of recombinant xylan-degrading enzymes on xylan isolated from sugarcane bagasse. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 199-206., Registrované v: WOS
44. [1.1] LI, Qin - SUN, Baoguo - JIA, Huiyong - HOU, Jie - YANG, Ran - XIONG, Ke - XU, Youqiang - LI, Xiuting. Engineering a xylanase from *Streptomyces rochei* L10904 by mutation to improve its catalytic characteristics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 101, no., pp. 366-372., Registrované v: WOS
45. [1.1] LI, Qin - SUN, Baoguo - XIONG, Ke - TENG, Chao - XU, Youqiang - LI, Liangjun - LI,

- Xiuting. Improving special hydrolysis characterization into *Talaromyces thermophilus* F1208 xylanase by engineering of N-terminal extension and site-directed mutagenesis in C-terminal. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 96, no., pp. 451-458., Registrované v: WOS
46. [1.1] LI, Yonghao - ZHANG, Xiaoyue - XIONG, Liang - MEHMOOD, Muhammad Aamer - ZHAO, Xinqing - BAI, Fengwu. On-site cellulase production and efficient saccharification of corn stover employing *cbh2* overexpressing *Trichoderma reesei* with novel induction system. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 238, no., pp. 643-649., Registrované v: WOS
47. [1.1] LIU, Rui - CHEN, Ling - JIANG, Yanping - ZOU, Gen - ZHOU, Zhihua. A novel transcription factor specifically regulates GH11 xylanase genes in *Trichoderma reesei*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
48. [1.1] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the beta-xyll gene in *Trichoderma orientalis* EU7-22. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 8, no., pp., Registrované v: WOS
49. [1.1] LOUREIRO, Dana B. - BRAIA, Mauricio - ROMANINI, Diana - TUBIO, Gisela. Partitioning of xylanase from *Thermomyces lanuginosus* in PEG/NaCit aqueous two-phase systems: Structural and functional approach. In *PROTEIN EXPRESSION AND PURIFICATION*. ISSN 1046-5928, 2017, vol. 129, no., pp. 25-30., Registrované v: WOS
50. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
51. [1.1] MAKHUELE, Rhulani - NCUBE, Ignatious - VAN RENSBURG, Elbert Lukas Jansen - LA GRANGE, Daniel Coenrad. Isolation of fungi from dung of wild herbivores for application in bioethanol production. In *BRAZILIAN JOURNAL OF MICROBIOLOGY*. ISSN 1517-8382, 2017, vol. 48, no. 4, pp. 648-655., Registrované v: WOS
52. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-oligosaccharides and arabinoxylo-oligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 260, no., pp. 53-61., Registrované v: WOS
53. [1.1] MEEHNIAN, Harmanpreet - JANA, Asim K. Cotton Stalk Pretreatment Using *Daedalea flavida*, *Phlebia radiata*, and *Flavodon flavus*: Lignin Degradation, Cellulose Recovery, and Enzymatic Saccharification. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 181, no. 4, pp. 1465-1484., Registrované v: WOS
54. [1.1] MENEGOL, D. - SCHOLL, A. L. - DILLON, A. J. P. - CAMASSOLA, M. USE OF ELEPHANT GRASS (*Pennisetum purpureum*) AS SUBSTRATE FOR CELLULASE AND XYLANASE PRODUCTION IN SOLID-STATE CULTIVATION BY *Penicillium echinulatum*. In *BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING*. ISSN 0104-6632, 2017, vol. 34, no. 3, pp. 691-700., Registrované v: WOS
55. [1.1] METREVELI, Eka - KACHLISHVILI, Eva - SINGER, Steven W. - ELISASHVILI, Vladimir. Alteration of white-rot basidiomycetes cellulase and xylanase activities in the submerged co-cultivation and optimization of enzyme production by *Irpex lacteus* and *Schizophyllum commune*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 241, no., pp. 652-660., Registrované v: WOS
56. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Enhancement in multiple lignolytic enzymes production for optimized lignin degradation and selectivity in fungal pretreatment of sweet sorghum bagasse. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 236, no., pp. 49-59., Registrované v: WOS
57. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Fungal pretreatment of sweet sorghum bagasse with supplements: improvement in lignin degradation, selectivity and enzymatic saccharification. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
58. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Improvement of selective lignin degradation in fungal pretreatment of sweet sorghum bagasse using synergistic CuSO₄-syringic acid supplements. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2017, vol. 193, no., pp. 558-566., Registrované v: WOS
59. [1.1] MISHRA, Vartika - JANA, Asim K. - JANA, Mithu Maiti - GUPTA, Antriksh. Synergistic effect of syringic acid and gallic acid supplements in fungal pretreatment of sweet sorghum bagasse for improved lignin degradation and enzymatic saccharification. In *PROCESS*

- BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 55, no., pp. 116-125., Registrované v: WOS
60. [1.1] MISHRA, Varika - JANA, Asim K. Fungal Pretreatment of Sweet Sorghum Bagasse with Combined CuSO₄-Gallic Acid Supplement for Improvement in Lignin Degradation, Selectivity, and Enzymatic Saccharification. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 200-217., Registrované v: WOS
61. [1.1] MUKHERJEE, Anjan - DUTTA, Dipanjan - BANERJEE, Sudeshna - RINGO, Einar - BREINES, Eva Marie - HAREIDE, Ellinor - CHANDRA, Goutam - GHOSH, Koushik. Culturable autochthonous gut bacteria in rohu, Labeo rohita. In vitro growth inhibition against pathogenic *Aeromonas* spp., stability in gut, bio-safety and identification by 16S rRNA gene sequencing. In SYMBIOSIS. ISSN 0334-5114, 2017, vol. 73, no. 3, pp. 165-177., Registrované v: WOS
62. [1.1] Miguel Oliva, Jose; Jose Negro, Maria; Manzanares, Paloma; Ballesteros, Ignacio; Angel Chamorro, Miguel; Saez, Felicia; Ballesteros, Mercedes; Moreno, Antonio D. A Sequential Steam Explosion and Reactive Extrusion Pretreatment for Lignocellulosic Biomass Conversion within a Fermentation-Based Biorefinery Perspective. In: Fermentation-Basel Volume: 3 Issue: 2 Pages: Article No.: 15, Registrované v: WOS
63. [1.1] NADAROGLU, Hayrunisa - ADIGUZEL, Gulsah - ADIGUZEL, Ahmet - SONMEZ, Zeynep. A thermostable-endo-beta-(1,4)-mannanase from *Pediococcus acidilactici* (M17): purification, characterization and its application in fruit juice clarification. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2017, vol. 243, no. 2, pp. 193-201., Registrované v: WOS
64. [1.1] NAHAR, Nurun - PRYOR, Scott W. Effects of reduced severity ammonia pretreatment on pelleted corn stover. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 163-172., Registrované v: WOS
65. [1.1] NAHAR, Nurun - RIPPLINGER, David - PRYOR, Scott W. Process yield and economic trade-offs for enzymatic hydrolysis of alkaline pretreated corn stover. In BIOMASS & BIOENERGY. ISSN 0961-9534, 2017, vol. 99, no., pp. 97-105., Registrované v: WOS
66. [1.1] NATHAN, Vinod Kumar - RANI, Mary Esther - RATHINASAMY, Gunaseeli - DHIRAVIAM, Kannan Narayanan. Low Molecular Weight Xylanase from *Trichoderma viride* VKF3 for Bio-bleaching of Newspaper Pulp. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5264-5278., Registrované v: WOS
67. [1.1] NIKINMAA, Markus - ALAM, Syed Ariful - RAULIO, Mari - KATINA, Kati - KAJALA, Ilkka - NORDLUND, Emilia - SOZER, Nesli. Bioprocessing of bran with exopolysaccharide producing microorganisms as a tool to improve expansion and textural properties of extruded cereal foams with high dietary fibre content. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 77, no., pp. 170-177., Registrované v: WOS
68. [1.1] NOORT, Martijn W. J. - MATTILA, Outi - KATINA, Kati - VAN DER KAMP, Jan Willem. HealthBread: Wholegrain and high fibre breads with optimised textural quality. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 78, no., pp. 57-65., Registrované v: WOS
69. [1.1] PACCANARO, Maria Chiara - SELLA, Luca - CASTIGLIONI, Carla - GIACOMELLO, Francesca - MARTINEZ-ROCHA, Ana Lilia - D'OVIDIO, Renato - SCHAEFER, Wilhelm - FAVARON, Francesco. Synergistic Effect of Different Plant Cell Wall-Degrading Enzymes Is Important for Virulence of *Fusarium graminearum*. In MOLECULAR PLANT-MICROBE INTERACTIONS. ISSN 0894-0282, 2017, vol. 30, no. 11, pp. 886-895., Registrované v: WOS
70. [1.1] PATANE, Cristina - PELLEGRINO, Alessandra - SAITA, Alessandro - SIRACUSA, Laura - RUBERTO, Giuseppe - BARBAGALLO, Riccardo. Mediterranean long storage tomato as a source of novel products for the agrifood industry: Nutritional and technological traits. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 85, no., pp. 445-448., Registrované v: WOS
71. [1.1] PATEL, Harshvadan - CHAPLA, Digantkumar - SHAH, Amita. Bioconversion of pretreated sugarcane bagasse using enzymatic and acid followed by enzymatic hydrolysis approaches for bioethanol production. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 109, no., pp. 323-331., Registrované v: WOS
72. [1.1] PEREZ-RODRIGUEZ, N. - TORRADO AGRASAR, A. - DOMINGUEZ, J. M. High hydrostatic pressure as pretreatment and adjuvant for the enzymatic release of ferulic acid from corn cob. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 204-210., Registrované v: WOS
73. [1.1] PERWEZ, Mohammad - AHMAD, Razi - SARDAR, Meryam. A reusable multipurpose magnetic nanobiocatalyst for industrial applications. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 16-24., Registrované v: WOS
74. [1.1] PINHEIRO, Guilherme L. - DE AZEVEDO-MARTINS, Allan C. - ALBANO, Rodolpho M. - DE SOUZA, Wanderley - FRASES, Susana. Comprehensive analysis of the cellulolytic system

- reveals its potential for deconstruction of lignocellulosic biomass in a novel *Streptomyces* sp. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 1, pp. 301-319., Registrované v: WOS
75. [1.1] PRASERTSAN, Poonsuk - KHANGKHACHIT, Wiyada - DUANGSUWAN, Wiriya - MAMIMIN, Chonticha - O-THONG, Sompong. Direct hydrolysis of palm oil mill effluent by xylanase enzyme to enhance biogas production using two-steps thermophilic fermentation under non-sterile condition. In *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*. ISSN 0360-3199, 2017, vol. 42, no. 45, pp. 27759-27766., Registrované v: WOS
76. [1.1] PUROHIT, Anjali - RAI, Shushil Kumar - CHOWNK, Manisha - SANGWAN, Rajender Singh - YADAV, Sudesh Kumar. Xylanase from *Acinetobacter pittii* MASK 25 and developed magnetic cross-linked xylanase aggregate produce predominantly xylopentose and xylohexose from agro biomass. In *BIORESOURCCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 244, no., pp. 793-799., Registrované v: WOS
77. [1.1] RAHMANI, Nanik - JANNAH, Alifah Mafatikhul - LISDIYANTI, Puspita - PRASETYA, Bambang - YOPI. Enzymatic hydrolysis of Lignocellulosic Biomass by *Kitasatospora* sp to Produce Xylo-oligosaccharides (XOS). In *PROCEEDINGS OF THE 3RD INTERNATIONAL SYMPOSIUM ON APPLIED CHEMISTRY (ISAC) 2017*. ISSN 0094-243X, 2017, vol. 1904, no., pp., Registrované v: WOS
78. [1.1] RAMANJANEYULU, G. - RAMYA, A. - KUMARI, B. S. Shanthi - KUMAR, Kanderi Dileep - REDDY, B. Rajasekhar. Xylanase-producing microflora in Eastern Ghats of Andhra Pradesh, India. In *JOURNAL OF FORESTRY RESEARCH*. ISSN 1007-662X, 2017, vol. 28, no. 2, pp. 291-298., Registrované v: WOS
79. [1.1] RAMANJANEYULU, G. - RAMYA, A. - REDDY, B. Rajasekhar. MICROBIAL POPULATION DYNAMICS OF EASTERN GHATS OF ANDHRA PRADESH FOR XYLANASE PRODUCTION. In *MICROBIAL BIOTECHNOLOGY: TECHNOLOGICAL CHALLENGES AND DEVELOPMENTAL TRENDS*, 2017, vol., no., pp. 355-372., Registrované v: WOS
80. [1.1] RAMANJANEYULU, G. - SRIDEVI, A. - SESHAPANI, P. - RAMYA, A. - KUMAR, K. Dileep - REDDY, G. Praveen Kumar - REDDY, B. Rajasekhar. Enhanced production of xylanase by *Fusarium* sp BVKT R2 and evaluation of its biomass saccharification efficiency. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
81. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS
82. [1.1] ROSA-SIBAKOV, Natalia - HAKALA, Terhi K. - SOZER, Nesli - NORDLUND, Emilia - POUTANEN, Kaisa - AURA, Anna-Marja. Birch pulp xylan works as a food hydrocolloid in acid milk gels and is fermented slowly in vitro. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2016, vol. 154, no., pp. 305-312., Registrované v: WOS
83. [1.1] RUDAKIYA, Darshan M. - GUPTE, Akshaya. Degradation of hardwoods by treatment of white rot fungi and its pyrolysis kinetics studies. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2017, vol. 120, no., pp. 21-35., Registrované v: WOS
84. [1.1] SANTOSH, Ingle - ASHTAVINAYAK, Paradh - AMOL, Dudhane - SANJAY, Patil. Enhanced bioethanol production from different sugarcane bagasse cultivars using co-culture of *Saccharomyces cerevisiae* and *Scheffersomyces* (*Pichia*) *stipitis*. In *JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING*. ISSN 2213-3437, 2017, vol. 5, no. 3, pp. 2861-2868., Registrované v: WOS
85. [1.1] SHANG, Tingting - SI, Dayong - ZHANG, Dongyan - LIU, Xuhui - ZHAO, Longmei - HU, Cong - FU, Yu - ZHANG, Rijun. Enhancement of thermoalkaliphilic xylanase production by *Pichia pastoris* through novel fed-batch strategy in high cell-density fermentation. In *BMC BIOTECHNOLOGY*. ISSN 1472-6750, 2017, vol. 17, no., pp., Registrované v: WOS
86. [1.1] SHATALOV, Anatoly A. Efficient eco-clean upgrading of isolated cellulose fibers by polyoxometalate (POM) catalyzed ozonation boosted by enzymes. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 21, pp. 5092-5102., Registrované v: WOS
87. [1.1] SRIDEVI, A. - RAMANJANEYULU, G. - DEVI, P. Suvarnalatha. Biobleaching of paper pulp with xylanase produced by *Trichoderma asperellum*. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
88. [1.1] THANH TUNG LAI - THI THANH HA PHAM - ADJALLE, Kokou - MONTPLAISIR, Daniel - BROUILLETTE, Francois - BARNABE, Simon. Production of *Trichoderma Reesei* RUT C-30 Lignocellulolytic Enzymes Using Paper Sludge as Fermentation Substrate: An Approach for On-Site Manufacturing of Enzymes for Biorefineries. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 4, pp. 1081-1088., Registrované v: WOS
89. [1.1] UDAY, Uma Shankar Prasad - BANDYOPADHYAY, Tarun Kanti - GOSWAMI, Saswata

- BHUNIA, Biswanath. Optimization of physical and morphological regime for improved cellulase free xylanase production by fed batch fermentation using *Aspergillus niger* (KP874102.1) and its application in bio-bleaching. In *BIOENGINEERED*. ISSN 2165-5979, 2017, vol. 8, no. 2, pp. 137-146., Registrované v: WOS
90. [1.1] UDAY, Uma Shankar Prasad - MAJUMDAR, Ria - TIWARI, Onkar Nath - MISHRA, Umesh - MONDAL, Abhijit - BANDYOPADHYAY, Tarun Kanti - BHUNIA, Biswanath. Isolation, screening and characterization of a novel extracellular xylanase from *Aspergillus niger* (KP874102.1) and its application in orange peel hydrolysis. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 401-409., Registrované v: WOS
91. [1.1] WANG, Qun - CHEN, Liang - YU, Daobing - LIN, Hui - SHEN, Qi - ZHAO, Yuhua. Excellent waste biomass-degrading performance of *Trichoderma asperellum* T-1 during submerged fermentation. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2017, vol. 609, no., pp. 1329-1339., Registrované v: WOS
92. [1.1] WICKRAMASINGHE, Gammadde Hewa Ishan Maduka - RATHNAYAKE, Pilimathalawe Panditharathna Attanayake Mudiyansele Samith Indika - CHANDRASEKHARAN, Naduviladath Vishvanath - WEERASINGHE, Mahindagoda Siril Samantha - WIJESUNDERA, Ravindra Lakshman Chundananda - WIJESUNDERA, Wijepurage Sandhya Sulochana. Expression, Docking, and Molecular Dynamics of Endo-beta-1,4-xylanase I Gene of *Trichoderma virens* in *Pichia stipitis*. In *BIOMED RESEARCH INTERNATIONAL*. ISSN 2314-6133, 2017, vol., no., pp., Registrované v: WOS
93. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Lihua - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48., Registrované v: WOS
94. [1.1] XIN, Fengxue - CHEN, Tianpeng - JIANG, Yujiang - DONG, Weiliang - ZHANG, Wenming - ZHANG, Min - WU, Hao - MA, Jiangfeng - JIANG, Min. Strategies for improved isopropanol-butanol production by a *Clostridium* strain from glucose and hemicellulose through consolidated bioprocessing. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
95. [1.1] XU, Jiaxing - GAO, Zhen - WU, Bin - HE, Bingfang. Lactose-induced production of a complete lignocellulolytic enzyme system by a novel bacterium *Bacillus* sp BS-5 and its application for saccharification of alkali-pretreated corn cob. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 5, pp. 2059-2070., Registrované v: WOS
96. [1.1] YANG, Jungwoo - KIM, Ji Eun - KIM, Jae Kyun - LEE, Sung Ho - YU, Ju-Hyun - KIM, Kyoung Heon. Evaluation of Commercial Cellulase Preparations for the Efficient Hydrolysis of Hydrothermally Pretreated Empty Fruit Bunches. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 7834-U2787., Registrované v: WOS
97. [1.1] YANG, Zhiliang - ZHANG, Zisheng. Codon-optimized expression and characterization of a pH stable fungal xylanase in *Pichia pastoris*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 53, no., pp. 80-87., Registrované v: WOS
98. [1.1] YE, Yanxin - LI, Xuezhong - ZHAO, Jian. Production and Characteristics of a Novel Xylose- and Alkali-tolerant GH 43 beta-xylosidase from *Penicillium oxalicum* for Promoting Hemicellulose Degradation. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
99. [1.1] YEGIN, Sirma - BUYUKKILECI, Ali Oguz - SARGIN, Sayit - GOKSUNGUR, Yekta. Exploitation of Agricultural Wastes and By-Products for Production of *Aureobasidium pullulans* Y-2311-1 Xylanase: Screening, Bioprocess Optimization and Scale Up. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 3, pp. 999-1010., Registrované v: WOS
100. [1.1] YEGIN, Sirma. Single-step purification and characterization of an extreme halophilic, ethanol tolerant and acidophilic xylanase from *Aureobasidium pullulans* NRRL Y-2311-1 with application potential in the food industry. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 67-75., Registrované v: WOS
101. [1.1] YEGIN, Sirma. Xylanase production by *Aureobasidium pullulans* on globe artichoke stem: Bioprocess optimization, enzyme characterization and application in saccharification of lignocellulosic biomass. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 5, pp. 441-449., Registrované v: WOS
102. [1.1] ZHANG, Xiaoyue - LI, Yonghao - ZHAO, Xinqing - BAI, Fengwu. Constitutive cellulase production from glucose using the recombinant *Trichoderma reesei* strain overexpressing an artificial transcription activator. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 223, no., pp. 317-322., Registrované v: WOS
103. [1.1] ZHAO, Dan - LIU, Pengfei - PAN, Chao - DU, Renpeng - PING, Wenxiang - GE,

- Jingping. Flax retting by degumming composite enzyme produced by *Bacillus licheniformis* HDYM-04 and effect on fiber properties. In *JOURNAL OF THE TEXTILE INSTITUTE*. ISSN 0040-5000, 2017, vol. 108, no. 4, pp. 507-510., Registrované v: WOS
104. [1.2] BORSZCZ, Valeria - BOSCATO, Taisa P. - FLACH, Juliana - CENCE, Karine - ZENI, Jamile - CANSIAN, Rogério Luis - BACKES, Geciane Toniazzi - VALDUGA, Eunice. Bacterial Biofilm Removal Using Solid-State-Produced Enzymes. In *Industrial Biotechnology*. ISSN 15509087, 2017-12-01, 13, 6, pp. 311-318., Registrované v: SCOPUS
105. [1.2] HEFFELS, Peter - BÜHRLE, Franziska - SCHIEBER, Andreas - WEBER, Fabian. Influence of common and excessive enzymatic treatment on juice yield and anthocyanin content and profile during bilberry (*Vaccinium myrtillus* L.) juice production. In *European Food Research and Technology*. ISSN 14382377, 2017-01-01, 243, 1, pp. 59-68., Registrované v: SCOPUS
106. [1.2] RAMNATH, L. - SITHOLE, B. - GOVINDEN, R. Identification of lipolytic enzymes isolated from bacteria indigenous to Eucalyptus wood species for application in the pulping industry. In *Biotechnology Reports*, 2017-09-01, 15, pp. 114-124., Registrované v: SCOPUS
107. [1.2] RANA, Vandana. Enzyme production from *trichoderma reesei* and *aspergillus* strain. In *SpringerBriefs in Applied Sciences and Technology*. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 69-86., Registrované v: SCOPUS
108. [1.2] ROSMINE, Emilda - SAINJAN, Neethu Changanedassery - SILVESTER, Reshma - ALIKKUNJU, Aneesa - VARGHESE, Saramma Aikkarakunnath. Statistical optimisation of xylanase production by estuarine *Streptomyces* sp. and its application in clarification of fruit juice. In *Journal of Genetic Engineering and Biotechnology*. ISSN 1687157X, 2017-12-01, 15, 2, pp. 393-401., Registrované v: SCOPUS
109. [1.2] SELVARAJAN, E. - VEENA, R. Recent advances and future perspectives of thermostable xylanase. In *Biomedical and Pharmacology Journal*. ISSN 09746242, 2017-01-01, 10, 1, pp. 261-279., Registrované v: SCOPUS
110. [1.2] SUKRI, Siti Sabrina Mohd - MUNAIM, Mimi Sakinah Abdul. Combination of entrapment and covalent binding techniques for xylanase immobilisation on alginate beads: Screening process parameters. In *Chemical Engineering Transactions*, 2017-01-01, 56, pp. 169-174., Registrované v: SCOPUS
111. [1.2] TOGTOKHBAYAR, Norovsambuu - URANKHAICH, Chuluunbaatar - AYUSHJAV, Otgonjargal - TSEVEGMED, Munkhnasan - ODONGO, Nicholas E. Effects of exogenous cellulase and xylanase enzyme preparations on feed intake, nutrient digestibility, growth, and economics of rearing Mongolian lambs. In *Journal of Agriculture and Rural Development in the Tropics and Subtropics*. ISSN 16129830, 2017-01-01, 118, 1, pp. 81-89., Registrované v: SCOPUS
- ADCA31 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. (3.376 - IF2013). (2014 - Current Contents). ISSN 0032-0935.

Citácie:

1. [1.1] AVELLAN, Astrid - SCHWAB, Fabienne - MASION, Armand - CHAURAND, Perrine - BORSCHNECK, Daniel - VIDAL, Vladimir - ROSE, Jerome - SANTAELLA, Catherine - LEVARD, Clement. Nanoparticle Uptake in Plants: Gold Nanomaterial Localized in Roots of *Arabidopsis thaliana* by X-ray Computed Nanotomography and Hyperspectral Imaging. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2017, vol. 51, no. 15, pp. 8682-8691., Registrované v: WOS
2. [1.1] HUANG, Xiaochen - TANG, Keli - XU, Xuping - CAI, Chunting. Interaction of Fe-Mn plaque and *Arthrobacter echigonensis* MN1405 and uptake and translocation of Cd by *Phytolacca acinosa* Roxb. In *CHEMOSPHERE*. ISSN 0045-6535, 2017, vol. 174, no., pp. 585-592., Registrované v: WOS
3. [1.1] MEUNIER, Jean Dominique - BARBONI, Doris - ANWAR-UL-HAQ, Muhammad - LEVARD, Clement - CHAURAND, Perrine - VIDAL, Vladimir - GRAUBY, Olivier - HUC, Roland - LAFFONT-SCHWOB, Isabelle - RABIER, Jacques - KELLER, Catherine. Effect of phytoliths for mitigating water stress in durum wheat. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 215, no. 1, pp. 229-239., Registrované v: WOS
4. [1.1] RONZAN, M. - ZANELLA, L. - FATTORINI, L. - DELLA ROVERE, F. - URGAST, D. - CANTAMESSA, S. - NIGRO, A. - BARBIERI, M. - DI TOPPI, L. Sanita - BERTA, G. - FELDMANN, J. - ALTAMURA, Mm. - FALASCA, G. The morphogenic responses and phytochelatin complexes induced by arsenic in *Pteris vittata* change in the presence of cadmium. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2017, vol. 133, no., pp. 176-187., Registrované v: WOS
5. [1.1] SHARMA, Shanti S. - YAMAMOTO, Kotaro - HAMAJI, Kohei - OHNISHI, Miwa - ANEGAWA, Aya - SHARMA, Shashi - THAKUR, Sveta - KUMAR, Vijay - UEMURA, Tomohiro - NAKANO, Akihiko - MIMURA, Tetsuro. Cadmium-induced changes in vacuolar aspects of

- Arabidopsis thaliana*. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 114, no., pp. 29-37., Registrované v: WOS
6. [1.1] SONG, Yu - JIN, Liang - WANG, Xiaojuan. Cadmium absorption and transportation pathways in plants. In *INTERNATIONAL JOURNAL OF PHYTOREMEDIATION*. ISSN 1522-6514, 2017, vol. 19, no. 2, pp. 133-141., Registrované v: WOS
7. [1.1] ZHAN, Yi-hua - ZHANG, Cheng-hao - ZHENG, Qiu-xun - HUANG, Zong-an - YU, Chen-liang. Cadmium stress inhibits the growth of primary roots by interfering auxin homeostasis in *Sorghum bicolor* seedlings. In *JOURNAL OF PLANT BIOLOGY*. ISSN 1226-9239, 2017, vol. 60, no. 6, pp. 593-603., Registrované v: WOS
- ADCA32 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.
- Citácie:
1. [1.2] HARADA, Tokuya - HARADA, Akira. Curdlan and succinoglycan. In *Polysaccharides in Medicinal Applications*, 2017-01-01, pp. 21-58., Registrované v: SCOPUS
- ADCA33 BARAN, Richard - KOCHI, Hayataro - SAITO, Natsumi - SUEMATSU, Makoto - SOGA, Tomoyoshi - NISHIOKA, Takaaki - ROBERT, Martin - TOMITA, Masaru. MathDAMP: a package for differential analysis of metabolite profiles. In *BMC Bioinformatic*, 2006, vol. 7, p. 1-9. ISSN 1471-2105.
- Citácie:
1. [1.1] DE SOUZA, Leonardo Perez - NAAKE, Thomas - TOHGE, Takayuki - FERNIE, Alisdair R. From chromatogram to analyte to metabolite. How to pick horses for courses from the massive web resources for mass spectral plant metabolomics. In *GIGASCIENCE*. ISSN 2047-217X, 2017, vol. 6, no. 7, pp., Registrované v: WOS
2. [1.1] MYERS, Owen D. - SUMNER, Susan J. - LI, Shuzhao - BARNES, Stephen - DU, Xiuxia. One Step Forward for Reducing False Positive and False Negative Compound Identifications from Mass Spectrometry Metabolomics Data: New Algorithms for Constructing Extracted Ion Chromatograms and Detecting Chromatographic Peaks. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 17, pp. 8696-8703., Registrované v: WOS
3. [1.1] PARMAR, Krupa M. - GAIKWAD, Saurabh L. - DHAKEPHALKAR, Prashant K. - KOTHARI, Ramesh - SINGH, Ravindra Pal. Intriguing Interaction of Bacteriophage-Host Association: An Understanding in the Era of Omics. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
4. [1.1] ROUSHANGAR, R. - MIAS, G. I. MathIOMica-MSViewer: a dynamic viewer for mass spectrometry files for Mathematica. In *JOURNAL OF MASS SPECTROMETRY*. ISSN 1076-5174, 2017, vol. 52, no. 5, pp. 315-318., Registrované v: WOS
5. [1.1] SINGH, Digar - LEE, Sunmin - LEE, Choong Hwan. Metabolomics for empirical delineation of the traditional Korean fermented foods and beverages. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2017, vol. 61, no., pp. 103-115., Registrované v: WOS
6. [1.1] WARREN, Charles R. Changes in small organic N during early stages of soil development. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2017, vol. 110, no., pp. 44-55., Registrované v: WOS
7. [1.1] WARREN, Charles R. Variation in small organic N compounds and amino acid enantiomers along an altitudinal gradient. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2017, vol. 115, no., pp. 197-212., Registrované v: WOS
- ADCA34 BARÁTH, Marek - HANSEN, Steen U. - DALTON, Charlotte - JAYSON, Gordon C. - MILLER, Gavin J. - GARDINER, John M. Modular synthesis of heparin-related tetra-, hexa- and octasaccharides with differential O-6 protections: programming for regio-defined 6-O-modifications. In *Molecules*, 2015, vol. 20, p. 6167-6180. (2.416 - IF2014). (2015 - Current Contents). ISSN 1420-3049.
- Citácie:
1. [1.1] FERRO, Vito. Glycosaminoglycans and Their Mimetics. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 1, pp., Registrované v: WOS
2. [1.1] TSAI, Ching-Ting - ZULUETA, Medel Manuel L. - HUNG, Shang-Cheng. Synthetic heparin and heparan sulfate: probes in defining biological functions. In *CURRENT OPINION IN CHEMICAL BIOLOGY*. ISSN 1367-5931, 2017, vol. 40, no., pp. 152-159., Registrované v: WOS
- ADCA35 BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVÍČOVÁ, Ema - VOLPI, Nikola. Chondroitin sulfate effect on induced arthritis in rats. In *Osteoarthritis and Cartilage*, 2011, vol. 19, no. 11, p. 1373-1379. (3.953 - IF2010). (2011 - Current Contents). ISSN 1063-4584.(VEGA č. 2/0045/11 : Štúdium kombinácie imunopresívnej liečby a ovplyvnenia redoxnej rovnováhy organizmu na zvieracích modeloch reumatoidnej artritídy).
- Citácie:
1. [1.1] OZALTIN, K. - LEHOCKY, M. - KUČEKOVÁ, Z. - HUMPOLICEK, P. - SAHA, P. A novel

- multistep method for chondroitin sulphate immobilization and its interaction with fibroblast cells. In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 70, part 1, p. 94-100., Registrované v: WOS*
2. [1.1] WANG, Q.H. - YANG, C.Y. - HAO, R.J. - ZHENG, Z. - JIAO, Y. - DU, X.D. - DENG, Y.W. - HUANG, R.L. Molecular characterization of CHST11 and its potential role in nacre formation in pearl oyster *Pinctada fucata martensii*. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2017, vol. 28, p. 113-119., Registrované v: WOS
- ADCA36 BELICKÁ, Ľudmila, Kľuková - BERTÓK, Tomáš - PETRÍKOVÁ, Miroslava - ŠEDIVÁ, Alena - MISLOVIČOVÁ, Danica - KATRLÍK, Jaroslav - VIKARTOVSKÁ, Alica, Welwardová - 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. (4.513 - IF2014). (2015 - Current Contents). ISSN 0003-2670.
- Citácie:
1. [1.1] DUARTE, C.E.M. - ABRANCHES, M.V. - SILVA, P.F. - DE PAULA, S.O. - CARDOSO, S.A. - OLIVEIRA, L.L. A new TRAF-like protein from *B. oleracea ssp botrytis* with lectin activity and its effect on macrophages. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JAN 2017, vol. 94, A, p. 508-514., Registrované v: WOS
2. [1.1] GORI, A. - CRETICH, M. - VANNA, R. - SOLA, L. - GAGNI, P. - BRUNI, G. - LIPRINO, M. - GRAMATICA, F. - BURASTERO, S. - CHIARI, M. Multiple epitope presentation and surface density control enabled by chemoselective immobilization lead to enhanced performance in IgE-binding fingerprinting on peptide microarrays. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, AUG 29 2017, vol. 983, p. 189-197., Registrované v: WOS
- ADCA37 BELICKÁ, Ľudmila, Kľuková - FILIP, Jaroslav - BELICKÝ, Štefan - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. Graphene oxide-based electrochemical label-free detection of glycoproteins down to aM level using a lectin biosensor. In Analyst, 2016, vol. 141, p. 4278-4282. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654.
- Citácie:
1. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS
2. [1.1] LI, Qian - TOFARIS, George K. - DAVIS, Jason J. Concentration-Normalized Electroanalytical Assaying of Exosomal Markers. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2017, vol. 89, no. 5, pp. 3184-3190., Registrované v: WOS
- ADCA38 BELICOVÁ, Anna - EBRINGER, Libor - KRAJČOVIČ, Juraj - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Antimutagenic effect of heteroxylans, arabinogalactans, pectins and mannans in Euglena assay. In World journal of microbiology and biotechnology, 2001, vol. 17, p. 293-299. (0.530 - IF2000). (2001 - Current Contents). ISSN 0959-3993.
- Citácie:
1. [1.2] BAINS, Rob. Energy crops, food security, and rural development: The role of oilseed production around Brazil: Presented at RCN-SEES for pan American biofuels and bioenergy sustainability. In RCN Conference on Pan American Biofuels and Bioenergy Sustainability 2014, 2014-01-01, pp. 78-99., Registrované v: SCOPUS
- ADCA39 BELLA, Maroš - STEINER, Bohumil - LANGER, Vratislav - KOŇŠ, Miroslav. Reaction of selected carbohydrate aldehydes with benzyl-magnesium halides: benzyl versus o-tolyl rearrangement. In Beilstein Journal of Organic Chemistry, 2014, vol. 10, p. 1942-1950. (2.803 - IF2013). (2014 - Current Contents). ISSN 1860-5397.
- Citácie:
1. [1.1] MIRABELLA, S. - FIBBI, G. - MATASSINI, C. - FAGGI, C. - GOTI, A. - CARDONA, F. Accessing 2-substituted piperidine iminosugars by organometallic addition/intramolecular reductive amination: aldehyde vs. nitron route. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9121-9126., Registrované v: WOS
2. [1.2] Coxon, J. M. (2017). Molecular rearrangements. In Knipe, A. C. (ed.). Organic Reaction Mechanisms 2014: An Annual Survey Covering the Literature Dated January to December 2014 (Wiley, chapter 12, pp. 621-711), Registrované v: SCOPUS
3. [1.2] MURRAY, B. A. Reactions of Aldehydes and Ketones and their Derivatives. In Organic Reaction Mechanisms 2014: An Annual Survey Covering the Literature Dated January to December 2014, 2017-06-28, pp. 1-85., Registrované v: SCOPUS
- ADCA40 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] PEDERSEN, Carina T. - LOKE, Ian - LORENTZEN, Andrea - WOLF, Sara - KAMBLE, Manoj - KRISTENSEN, Sebastian K. - MUNCH, David - RADUTOIU, Simona - SPILLNER, Edzard - ROEPSTORFF, Peter - THAYSEN-ANDERSEN, Morten - STOUGAARD, Jens - DAM, Svend. N-glycan maturation mutants in *Lotus japonicus* for basic and applied glycoprotein research. In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 91, no. 3, pp. 394-407., Registrované v: WOS

ADCA41

BERTÓK, Tomáš - KLUKOVA, Ludmila - SEDIVA, Alena - KASÁK, Peter - SEMAK, Vladislav - MIČUŠÍK, Matej - OMASTOVÁ, Mária - CHOVANOVÁ, Lucia - VLČEK, Miroslav - IMRICH, Richard - VIKARTOVSKÁ, Alica, Welwardová - 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. (5.695 - IF2012). (2013 - Current Contents). ISSN 0003-2700.

Citácie:

1. [1.1] BROSEL-OLIU, S. - GALYAMIN, D. - ABRAMOVA, N. - MUNOZ-PASCUAL, F.X. - BRATOV, A. Impedimetric label-free sensor for specific bacteria endotoxin detection by surface charge registration. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, JUL 20 2017, vol. 243, p. 142-151., Registrované v: WOS

2. [1.1] COELHO, L.C.B.B. - SILVA, P.M.D. - LIMA, V.L.D. - PONTUAL, E.V. - PAIVA, P.M.G. - NAPOLEAO, T.H. - CORREIA, M.T.D. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2017., Registrované v: WOS

3. [1.1] ONO, T. - OE, T. - KANAI, Y. - IKUTA, T. - OHNO, Y. - MAHASHI, K. - INOUE, K. - WATANABE, Y. - NAKAKITA, S. - SUZUKI, Y. - KAWAHARA, T. - MATSUMOTO, K. Glycan-functionalized graphene-FETs toward selective detection of human-infectious avian influenza virus. In *JAPANESE JOURNAL OF APPLIED PHYSICS*. ISSN 0021-4922, MAR 2017, vol. 56, no. 3., Registrované v: WOS

4. [1.1] ZHANG, X.Z. - ZAMBRANO, A. - LIN, Z.T. - XING, Y.K. - RIPPY, J. - WU, T.F. Immunosensors for Biomarker Detection in Autoimmune Diseases. In *ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS*. ISSN 0004-069X, APR 2017, vol. 65, no. 2, p. 111-121., Registrované v: WOS

ADCA42

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. (3.498 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0039-9140.

Citácie:

1. [1.1] ABREU, Dieric S. - SOUSA, Ticyano P. - CASTRO, Caio B. - SOUSA, Mayara N. V. - SILVA, Thiago T. - ALMEIDA-NETO, Francisco W. Q. - QUEIROS, Marcos V. A. - RODRIGUES, Barbara S. F. - OLIVEIRA, Maria C. F. - PAULO, Tercio F. - CAVADA, Benildo S. - NASCIMENTO, Kyria S. - TEMPERINI, Marcia L. A. - DIOGENES, Izaura C. N. SAM of Gliotoxin on Gold: A Natural Product Platform for Sugar Recognition based on the Immobilization of *Canavalia brasiliensis* lectin (ConBr). In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 241, no., pp. 116-123., Registrované v: WOS

2. [1.1] BREITENBACH BARROSO COELHO, Luana Cassandra - DOS SANTOS SILVA, Priscila Marcelino - DE MENEZES LIMA, Vera Lucia - PONTUAL, Emmanuel Viana - GUEDES PAIVA, Patricia Maria - NAPOLEAO, Thiago Henrique - DOS SANTOS CORREIA, Maria Tereza. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2017, vol., no., pp., Registrované v: WOS

3. [1.1] DA SILVA, Jussara Vieira - BRITO MADURRO, Ana Graci - MADURRO, Joao Marcos. Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. ISSN 1432-8488, 2017, vol. 21, no. 7, pp. 2129-2139., Registrované v: WOS

4. [1.1] MCNAMARA, Karrina - TOFAIL, Syed A. M. Nanoparticles in biomedical applications. In *ADVANCES IN PHYSICS-X*. ISSN 2374-6149, 2017, vol. 2, no. 1, pp. 54-88., Registrované v: WOS

5. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A *Vicia villosa* agglutinin biosensor for cancer-associated Tn antigen. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005,

2017, vol. 252, no., pp. 777-784., Registrované v: WOS

6. [1.1] VASHIST, Sandeep Kumar - SCHNEIDER, E. Marion - VENKATESH, A. G. - LUONG, John H. T. *Emerging Human Fetuin A Assays for Biomedical Diagnostics*. In *TRENDS IN BIOTECHNOLOGY*. ISSN 0167-7799, 2017, vol. 35, no. 5, pp. 407-421., Registrované v: WOS

7. [1.1] XIA, Ning - WANG, Xin - YU, Jie - WU, Yangyang - CHENG, Shuchao - XING, Yun - LIU, Lin. *Design of electrochemical biosensors with peptide probes as the receptors of targets and the inducers of gold nanoparticles assembly on electrode surface*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 239, no., pp. 834-840., Registrované v: WOS

ADCA43

BERTÓK, Tomáš - HOLAZOVÁ-ŠEDIVÁ, Alena - FILIP, Jaroslav - ILČÍKOVÁ, Markéta - KASÁK, Peter - VELIČ, Dušan - JÁNE, Eduard - MRAVCOVÁ, Martina - ROVENSKÝ, Jozef - KUNZO, Pavol - LOBOTKA, Peter - ŠMATKO, Vasilij - VIKARTOVSKÁ, Alica, Welwardová - TKÁČ, Ján. *Carboxybetaine modified interface for electrochemical glycoprofiling of antibodies isolated from human serum*. In *Langmuir*. - Wahington : American Chemical Society, 2015, vol. 31, p. 7148-7157. (4.457 - IF2014). (2015 - Current Contents). ISSN 0743-7463.

Citácie:

1. [1.1] CUI, Min - WANG, Yu - WANG, Hongpei - WU, Yumin - LUO, Xiliang. *A label-free electrochemical DNA biosensor for breast cancer marker BRCA1 based on self-assembled antifouling peptide monolayer*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 244, pp. 742-749., Registrované v: WOS

2. [1.1] ZHANG, Xuezhu - ZAMBRANO, Amarayca - LIN, Zuan-Tao - XING, Yikun - RIPPY, Justin - WU, Tianfu. *Immunosensors for Biomarker Detection in Autoimmune Diseases*. In *ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS*. ISSN 0004-069X, 2017, vol. 65, no. 2, pp. 111-121., Registrované v: WOS

ADCA44

BERTÓK, Tomáš - ŠEDIVÁ, Alena - VIKARTOVSKÁ, Alica, Welwardová - 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. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981.

Citácie:

1. [1.1] CHAKRABORTY, W. - RAY, R. - SAMANTA, N. - ROYCHAUDHURI, C. *Quantitative differentiation of multiple virus in blood using nanoporous silicon oxide immunosensor and artificial neural network*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 98, no., pp. 180-188., Registrované v: WOS

2. [1.1] JUNG, Il Young - KIM, Ji Su - CHOI, Bo Ram - LEE, Kyuri - LEE, Hyukjin. *Hydrogel Based Biosensors for In Vitro Diagnostics of Biochemicals, Proteins, and Genes*. In *ADVANCED HEALTHCARE MATERIALS*. ISSN 2192-2640, 2017, vol. 6, no. 12, pp., Registrované v: WOS

ADCA45

BERTÓK, Tomáš - CHOCHOLOVÁ, Erika, Došeková - BELICKÝ, Štefan - HOLAZOVÁ, Alena, Šedivá - LORENCOVÁ, Lenka - MISLOVIČOVÁ, Danica - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica, Welwardová - 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. (3.993 - IF2015). (2016 - Current Contents). ISSN 0743-7463.

Citácie:

1. [1.1] BHALLA, Nikhil - LEE, Doojin - SATHISH, Shivani - SHEN, Amy Q. *Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures*. In *NANOSCALE*. ISSN 2040-3364, 2017, vol. 9, no. 2, pp. 547-554., Registrované v: WOS

2. [1.1] SEMAK, Vladislav - FISCHER, Michael B. - WEBER, Viktoria. *Biomimetic principles to develop blood compatible surfaces*. In *INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS*. ISSN 0391-3988, 2017, vol. 40, no. 1, pp. 22-30., Registrované v: WOS

3. [1.2] MARLAND, Jamie R.K. - BLAIR, Ewen O. - FLYNN, Brian W. - GONZÁLEZ-FERNÁNDEZ, Eva - HUANG, Liyu - KUNKLER, Ian H. - SMITH, Stewart - STADERINI, Matteo - TSIAMIS, Andreas - WARD, Carol - MURRAY, Alan F. *Implantable microsystems for personalised anticancer therapy*. In *CMOS Circuits for Biological Sensing and Processing*, 2017-11-18, pp. 259-286., Registrované v: SCOPUS

ADCA46

BERTÓK, Tomáš - KATRLÍK, Jaroslav - GEMEINER, Peter - TKÁČ, Ján. *Electrochemical lectin based biosensors as a label-free tool in glycomics*. In *Microchimica Acta*, 2013, vol. 180, p. 1-13. (3.434 - IF2012). (2013 - Current Contents). ISSN 0026-3672.

Citácie:

1. [1.1] BARTOSIK, Martin - HRSTKA, Roman. *Bioelectrochemistry of nucleic acids for early cancer diagnostics analysis of DNA methylation and detection of microRNAs*. In *REVIEWS IN ANALYTICAL CHEMISTRY*. ISSN 0793-0135, 2017, vol. 36, no. 1, pp., Registrované v: WOS

2. [1.1] HUANG, Yan - WEN, Yongqiang - BARYEH, Kwaku - TAKALKAR, Sunitha - LUND, Michelle - ZHANG, Xueji - LIU, Guodong. *Lateral flow assay for carbohydrate antigen 19-9 in whole blood by using magnetized carbon nanotubes*. In *MICROCHIMICA ACTA*. ISSN 0026-

3672, 2017, vol. 184, no. 11, pp. 4287-4294., Registrované v: WOS

3. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Label-free electrochemical analysis of biomacromolecules. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS

4. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A *Vicia villosa* agglutinin biosensor for cancer-associated Tn antigen. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS

5. [1.1] STRMECKI, Sladana - TREFULKA, Mojmir - ZATLOUKALOVA, Pavlina - DURECH, Michal - VOJTESEK, Borivoj - PALECEK, Emil. Immunoassays of chemically modified polysaccharides, glycans in glycoproteins and ribose in nucleic acids. In *ANALYTICA CHIMICA ACTA*. ISSN 0003-2670, 2017, vol. 955, no., pp. 108-115., Registrované v: WOS

6. [1.1] TREFULKA, Mojmir - DORCAK, Vlastimil - KRENKOVA, Jana - FORET, Frantisek - PALECEK, Emil. Electrochemical analysis of Os(VI)-modified glycoproteins and label-free glycoprotein detection eluted from lectin capillary column. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 239, no., pp. 10-15., Registrované v: WOS

7. [1.1] TREFULKA, Mojmir - PALECEK, Emil. Distinguishing glycan isomers by voltammetry. Modification of 2,3-sialyllactose and 2,6-sialyllactose by osmium(VI) complexes. In *ELECTROCHEMISTRY COMMUNICATIONS*. ISSN 1388-2481, 2017, vol. 85, no., pp. 19-22., Registrované v: WOS

8. [1.1] ZHANG, Jing-Jing - CHENG, Fang-Fang - ZHENG, Ting-Ting - ZHU, Jun-Jie. Versatile aptasensor for electrochemical quantification of cell surface glycan and naked-eye tracking glycolytic inhibition in living cells. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 89, no., pp. 937-945., Registrované v: WOS

ADCA47

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. (3.434 - IF2012). (2013 - Current Contents). ISSN 0026-3672.

Citácie:

1. [1.1] BREITENBACH BARROSO COELHO, Luana Cassandra - DOS SANTOS SILVA, Priscila Marcelino - DE MENEZES LIMA, Vera Lucia - PONTUAL, Emmanuel Viana - GUEDES PAIVA, Patricia Maria - NAPOLEAO, Thiago Henrique - DOS SANTOS CORREIA, Maria Tereza. Lectins, Interconnecting Proteins with Biotechnological/Pharmacological and Therapeutic Applications. In *EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1741-427X, 2017, vol., no., pp., Registrované v: WOS

2. [1.1] FIGUEIROA, Evelyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS

3. [1.1] LU, Qi - ZHAN, Mimi - DENG, Lijing - QING, Guangyan - SUN, Taolei. Rapid and high-efficiency discrimination of different sialic acid species using dipeptide-based fluorescent sensors. In *ANALYST*. ISSN 0003-2654, 2017, vol. 142, no. 19, pp. 3564-3568., Registrované v: WOS

4. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A *Vicia villosa* agglutinin biosensor for cancer-associated Tn antigen. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS

5. [1.1] TABASUM, Shazia - NOREEN, Aqdas - KANWAL, Arooj - ZUBER, Mohammad - ANJUM, Muhammad Naveed - ZIA, Khalid Mahmood. Glycoproteins functionalized natural and synthetic polymers for prospective biomedical applications: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 748-776., Registrované v: WOS

6. [1.1] TAVAKOLI, Javad - TANG, Youhong. Hydrogel Based Sensors for Biomedical Applications: An Updated Review. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 8, pp., Registrované v: WOS

ADCA48

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. ISSN 0144-8617.

Citácie:

1. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect

- of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In *PHARMACEUTICAL BIOLOGY*. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS
2. [1.1] MIKSHINA, Polina V. - MAKSHAKOVA, Olga N. - PETROVA, Anna A. - GAIFULLINA, Ilzira Z. - IDIYATULLIN, Bulat Z. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Gelation of rhamnogalacturonan I is based on galactan side chain interaction and does not involve chemical modifications. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 171, no., pp. 143-151., Registrované v: WOS
3. [1.1] MURAMATSU, Kazuaki - TAJIMA, Yuya - KANEKO, Rin - YANAGITA, Yuta - HIRAI, Hiroyuki - HIURA, Nana. Characterization of poly(L-glutamic acid)-grafted hyaluronan as a novel candidate medicine and biomedical device for intra-articular injection. In *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*. ISSN 1549-3296, 2017, vol. 105, no. 11, pp. 3006-3016., Registrované v: WOS
4. [1.1] NG, Hon-Meng - SIN, Lee Tin - BEE, Soo-Tueen - TEE, Tiam-Ting - RAHMAT, A. R. Evaluation of Microwave Activity on Starch-Based Nanocomposites Reinforced at Different Loading Fraction Organic-to-Inorganic Nanofillers. In *POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING*. ISSN 0360-2559, 2017, vol. 56, no. 10, pp. 1043-1058., Registrované v: WOS
- ADCA49 BHUNIA, Anirban - SCHWARDT, Oliver - GÄTHJE, Heiko - GAO, Gan-Pan - KELM, Soerge - BENIE, Andrew J. - HRICOVÍNĽ, Miloš - PETERS, Thomas - ERNST, Beat. Consistent bioactive conformation of the Neu5Aca(2-3)Gal epitope upon lectin binding. In *Chembiochem : a European journal of chemical biology*, 2008, vol.9, p. 2941-2945. (2008 - Current Contents). ISSN 1439-4227.
- Citácie:
1. [1.1] HAMARK, Christoffer - BERNTSSON, Ronnie P.A. - MASUYER, Geoffrey - HENRIKSSON, Linda M. - GUSTAFSSON, Robert - STENMARK, Pal - WIDMALM, Goran. Glycans Confer Specificity to the Recognition of Ganglioside Receptors by Botulinum Neurotoxin A. In *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0002-7863, 2017, vol. 139, no. 1, pp. 218-230., Registrované v: WOS
- ADCA50 BIBOLLET, Xavier - BOSC, Nathalie - MATULOVÁ, Mária - DELORT, Anne-Marie - GAUDET, Genevieve - FORANO, Evelyn. 13C and 1H NMR study of cellulose metabolism by Fibrobacter succinogenes S85. In *Journal of Biotechnology*, 2000, vol. 77, p. 37-47. ISSN 0168-1656.
- Citácie:
1. [1.2] DOU, Sen - LI, Yan - GUAN, Song - GUO, Dan - ZHANG, Mingyang - JIN, Liang. The structural distinctiveness of humic substances and its formation mechanism in simulated incubation. In *Acta Pedologica Sinica*. ISSN 05643929, 2016-01-01, 53, 4, pp. 821-831., Registrované v: SCOPUS
- ADCA51 BIELY, Peter - KREMnický, Ľubomir. Yeasts and their enzyme systems degrading cellulose, hemicelluloses and pectin. In *Food Technology and Biotechnology*, 1998, vol. 36, p. 305-312. ISSN 1330-9862.
- Citácie:
1. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
- ADCA52 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. ISSN 1873-3468.
- Citácie:
1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
4. [1.1] Group Author(s): Uniprot Consortium. Q9RLB8. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9RLB8>, Registrované v: WOS
5. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model

compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS

6. [1.1] WONG, Mabel T. - WANG, Weijun - COUTURIER, Marie - RAZEQ, Fakhria M. - LOMBARD, Vincent - LAPEBIE, Pascal - EDWARDS, Elizabeth A. - TERRAPON, Nicolas - HENRISSAT, Bernard - MASTER, Emma R. Comparative Metagenomics of Cellulose- and Poplar Hydrolysate-Degrading Microcosms from Gut Microflora of the Canadian Beaver (*Castor canadensis*) and North American Moose (*Alces americanus*) after Long-Term Enrichment. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

ADCA53

BIELY, Peter - COTE, G.L. - KREMNIČKÝ, 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.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] TUVENG, Tina Rise - ROTHWEILER, Ulli - UDATHA, Gupta - VAAJE-KOLSTAD, Gustav - SMALAS, Arne - ELJSINK, Vincent G. H. Structure and function of a CE4 deacetylase isolated from a marine environment. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 11, pp., Registrované v: WOS

ADCA54

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.

Citácie:

1. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS

2. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

3. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

4. [1.1] MANGAN, David - CORNAGGIA, Claudio - LIADOVA, Agnija - MCCORMACK, Niall - IVORY, Ruth - MCKIE, Vincent A. - ORMEROD, Aaron - MCCLEARY, Barry V. Novel substrates for the automated and manual assay of endo-1,4-beta-xylanase. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 445, no., pp. 14-22., Registrované v: WOS

5. [1.1] MILLAR, Robert - RAHMANPOUR, Rahman - YUAN, Eugenie Wei Jia - WHITE, Catharine - BUGG, Timothy D. H. Esterase EstK from *Pseudomonas putida* mt-2: An enantioselective acetylcysteine esterase with activity for deacetylation of xylan and poly(vinylacetate). In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2017, vol. 64, no. 6, pp. 803-809., Registrované v: WOS

6. [1.1] MONGKORNTANYATIP, Karntichar - LIMSAKUL, Puangpen - RATANAKHANOKCHAI, Khanok - KHUNRAE, Pongsak. Overexpression and characterization of alkaliphilic *Bacillus firmus* strain K-1 xylanase. In *Agriculture and Natural Resources*. ISSN 2452316X, 2017-12-01, 51, 6, pp. 437-444., Registrované v: WOS

7. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of *Magnaporthe oryzae*. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS

8. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

9. [1.1] SUN, Z. H. - HE, Z. X. - TAN, Z. L. - LIU, S. M. - ZHANG, Q. L. - HAN, X. F. - TANG, S. X. - ZHOU, C. S. - WANG, M. Effects of energy and protein restriction on digestion and absorption in the gastrointestinal tract of Liuyang Black kids. In *SMALL RUMINANT RESEARCH*. ISSN 0921-4488, 2017, vol. 154, no., pp. 13-19., Registrované v: WOS

10. [1.1] THYBRING, Emil Engelund. Water relations in untreated and modified wood under brown-rot and white-rot decay. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2017, vol. 118, no., pp. 134-142., Registrované v: WOS

11. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaëlle - COLQUHOUN, Ian J. - COLLINS,

- Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
12. [1.1] YANG, Yi - ZHU, Ning - YANG, Jinshui - LIN, Yujian - LIU, Jiawen - WANG, Ruonan - WANG, Fengqin - YUAN, Hongli. A novel bifunctional acetyl xylan esterase/arabinofuranosidase from *Penicillium chrysogenum* P33 enhances enzymatic hydrolysis of lignocellulose. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2017, vol. 16, no., pp., Registrované v: WOS
13. [1.2] NAZ, Sobia - IRFAN, Muhammad - FAROOQ, Muhammad Umar. Xylanase production from *Bacillus subtilis* in submerged fermentation using Box-Behnken design. In Pakistan Journal of Biotechnology. ISSN 18121837, 2017-01-01, 14, 2, pp. 151-156., Registrované v: SCOPUS
- ADCA55 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] VISHWANATHA, Akshay - D'SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. Genes Controlling 2-deoxyglucose Induced Lysis and Formation of Reactive Oxygen Species in *Schizosaccharomyces pombe*. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331, 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS
- ADCA56 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. ISSN 0022-5142.
Citácie:
1. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In Fungal Enzymes, 2016-04-19, pp. 280-293., Registrované v: SCOPUS
- ADCA57 BIELY, Peter. Microbial xylanolytic systems. In Trends in Biotechnology, 1985, vol. 3, no. 11, p. 286-290. ISSN 0167-7799.
Citácie:
1. [1.1] AMOOZEGAR, Mohammad Ali - SIROOSI, Maryam - ATASHGAHI, Siavash - SMIDT, Hauke - VENTOSA, Antonio. Systematics of haloarchaea and biotechnological potential of their hydrolytic enzymes. In MICROBIOLOGY-SGM. ISSN 1350-0872, 2017, vol. 163, no. 5, pp. 623-645., Registrované v: WOS
2. [1.1] CONEJO-SAUCEDO, Ulises - CANO-CAMACHO, Horacio - VILLA-RIVERA, Maria G. - LARA-MARQUEZ, Alicia - LOPEZ-ROMERO, Everardo - ZAVALA-PARAMO, Maria G. Protein homology modeling, docking, and phylogenetic analyses of an endo-1,4-beta-xylanase GH11 of *Colletotrichum lindemuthianum*. In MYCOLOGICAL PROGRESS. ISSN 1617-416X, 2017, vol. 16, no. 6, pp. 577-591., Registrované v: WOS
3. [1.1] DEHNAVI, Ehsan - FATHI-ROUDSARI, Mehrnoosh - MIRZAEI, Sako - ARAB, Seyed Shahriar - SIADAT, Seyed Omid Ranaei - KHAJEH, Khosro. Engineering disulfide bonds in *Selenomonas ruminantium* beta-xylosidase by experimental and computational methods. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 248-255., Registrované v: WOS
4. [1.1] HU, Hang - CHEN, Kaixiang - LI, Lulu - LONG, Liangkun - DING, Shaojun. Characterization of the Wild-Type and Truncated Forms of a Neutral GH10 Xylanase from *Coprinus cinereus*: Roles of C-Terminal Basic Amino Acid-Rich Extension in Its SDS Resistance, Thermostability, and Activity. In JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 1017-7825, 2017, vol. 27, no. 4, pp. 775-784., Registrované v: WOS
5. [1.1] Kim, Da Som; Jeong, Ga Ram; Bae, Chang Hwan; Yeo, Joo-Hong; Chi, Won-Jae. Identification and Characterization of an Agarase- and Xylanase-producing *Catenovulum jejuensis* A28-5 from Coastal Seawater of Jeju Island, Korea. In: Korean Journal of Microbiology and Biotechnology Volume: 45 Issue: 2 Pages: 168-177, Registrované v: WOS
6. [1.1] RAMANJANEYULU, G. - SRIDEVI, A. - SESHAPANI, P. - RAMYA, A. - KUMAR, K. Dileep - REDDY, G. Praveen Kumar - REDDY, B. Rajasekhar. Enhanced production of xylanase by *Fusarium* sp BVKT R2 and evaluation of its biomass saccharification efficiency. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
7. [1.1] SCHAEFERS, Christian - BLANK, Saskia - WIEBUSCH, Sigrid - ELLEUCHE, Skander - ANTRANIKIAN, Garabed. Complete genome sequence of *Thermus brockianus* GE-1 reveals key enzymes of xylan/xylose metabolism. In STANDARDS IN GENOMIC SCIENCES. ISSN 1944-3277, 2017, vol. 12, no., pp., Registrované v: WOS
8. [1.1] SUEB, Mohd Shafiq Mohd - LUO, Jianquan - MEYER, Anne S. - JORGENSEN, Henning - PINELO, Manuel. Impact of the fouling mechanism on enzymatic depolymerization of xylan in different configurations of membrane reactors. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 178, no., pp. 154-162., Registrované v: WOS
9. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE,

- Christine. Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. In *JOURNAL OF PROTEOMICS*. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS
10. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase from *Aspergillus niger* BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS
11. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaëlle - COLQUHOUN, Ian J. - COLLINS, Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
12. [1.2] Behera, B. K., & Varma, A. (2017). In *Microbial Biomass Process Technologies and Management* (Springer, pp. 1-306), Registrované v: SCOPUS
- ADCA58 BIELY, Peter - MARKOVIČ, Oskar - MISLOVIČOVÁ, Danica. Sensitive detection of endo-1,4-beta-glucanases and endo-1,4-beta-xylanases in gels. In *Analytical Biochemistry*, 1985, vol.144, p. 147-151. ISSN 0003-2697.
Citácie:
1. [1.1] CANO-RAMIREZ, Claudia - SANTIAGO-HERNANDEZ, Alejandro - RIVERA-ORDUNA, Flor Nohemi - PINEDA-MENDOZA, Rosa Maria - ZUNIGA, Gerardo - HIDALGO-LARA, Maria Eugenia. One-step zymogram method for the simultaneous detection of cellulase/xylanase activity and molecular weight estimation of the enzyme. In *ELECTROPHORESIS*. ISSN 0173-0835, 2017, vol. 38, no. 3-4, pp. 447-451., Registrované v: WOS
- ADCA59 BIELY, Peter - MASTIHUBOVÁ, Mária - VAN ZYL, W.H. - PRIOR, B.A. Differentiation of feruloyl esterases on synthetic substrates in alfa-arabinofuranosidase-coupled and ultraviolet-spectrophotometric assays. In *Analytical Biochemistry*, 2002, vol.311, p. 68-75. ISSN 0003-2697.
Citácie:
1. [1.1] CAVAZZINI, Davide - GROSSI, Guido - LEVATI, Elisabetta - VALLESE, Francesca - MONTANINI, Barbara - BOLCHI, Angelo - ZANOTTI, Giuseppe - OTTONELLO, Simone. A family of archaea-like carboxylesterases preferentially expressed in the symbiotic phase of the mycorrhizal fungus *Tuber melanosporum*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA60 BIELY, Peter - LEATHERS, T.D. - CZISZÁROVÁ, Mária - VRŠANSKÁ, Mária - COTTA, M.A. Endo-beta-1,4-xylanase inhibitors in leaves and roots of germinated maize. In *Journal of Cereal Science*, 2008, vol.47, p. 27-32. ISSN 0733-5210.
Citácie:
1. [1.1] EL ENSHASY, Hesham Ali - KANDIYIL, Subeesh Kunhi - MALEK, Roslinda - OTHMAN, Nor Zalina. Microbial Xylanases: Sources, Types, and Their Applications. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 151-213., Registrované v: WOS
- ADCA61 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.
Citácie:
1. [1.1] CONEJO-SAUCEDO, Ulises - CANO-CAMACHO, Horacio - VILLA-RIVERA, Maria G. - LARA-MARQUEZ, Alicia - LOPEZ-ROMERO, Everardo - ZAVALA-PARAMO, Maria G. Protein homology modeling, docking, and phylogenetic analyses of an endo-1,4-beta-xylanase GH11 of *Colletotrichum lindemuthianum*. In *MYCOLOGICAL PROGRESS*. ISSN 1617-416X, 2017, vol. 16, no. 6, pp. 577-591., Registrované v: WOS
2. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
3. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
4. [1.1] GOMES, Kamila de Sousa - MAITAN-ALFENAS, Gabriela P. - DE ANDRADE, Lorena

- G. A. - FALKOSKI, Daniel Luciano - GUIMARES, Valeria Monteze - ALFENAS, Acelino C. - DE REZENDE, Sebastiao Tavares. Purification and Characterization of Xylanases from the Fungus *Chrysosporthe cubensis* for Production of Xylooligosaccharides and Fermentable Sugars. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 182, no. 2, pp. 818-830., Registrované v: WOS
5. [1.1] HEINZE, Simon - MECHELKE, Matthias - KORNBERGER, Petra - LIEBL, Wolfgang - SCHWARZ, Wolfgang H. - ZVERLOV, Vladimir V. Identification of endoxylanase XynE from *Clostridium thermocellum* as the first xylanase of glycoside hydrolase family GH141. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
6. [1.1] HUTTERER, Christian - KLIBA, Gerhard - PUNZ, Manuel - FACKLER, Karin - POTTHAST, Antje. Enzymatic pulp upgrade for producing high-value cellulose out of a Kraft paper pulp. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 102, no., pp. 67-73., Registrované v: WOS
7. [1.1] KIM, Jae Yoon - NONG, Guang - RICE, John D. - GALLO, Maria - PRESTON, James F. - ALTPETER, Fredy. In planta production and characterization of a hyperthermostable GH10 xylanase in transgenic sugarcane. In *PLANT MOLECULAR BIOLOGY*. ISSN 0167-4412, 2017, vol. 93, no. 4-5, pp. 465-478., Registrované v: WOS
8. [1.1] KOSIK, Ondrej - POWERS, Stephen J. - CHATZIFRAGKOU, Afroditi - PRABHAKUMARI, Parvathy Chandran - CHARALAMPOPOULOS, Dimitris - HESS, Linde - BROSNAN, James - SHEWRY, Peter R. - LOVEGROVE, Alison. Changes in the arabinoxylan fraction of wheat grain during alcohol production. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1754-1762., Registrované v: WOS
9. [1.1] LI, Hailong - WU, Hongli - XIONG, Lian - CHEN, Xuefang - WANG, Can - QI, Gaoxiang - HUANG, Chao - GUO, Haijun - LUO, Mutan - LIU, Jian - LONG, Minnan - CHEN, Xinde. The hydrolytic efficiency and synergistic action of recombinant xylan-degrading enzymes on xylan isolated from sugarcane bagasse. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 199-206., Registrované v: WOS
10. [1.1] LISOV, Alexander V. - BELOVA, Oksana V. - LISOVA, Zoya A. - VINOKUROVA, Nataliy G. - NAGEL, Alexey S. - ANDREEVA-KOVALEVSKAYA, Zhanna I. - BUDARINA, Zhanna I. - NAGORNYKH, Maxim O. - ZAKHAROVA, Marina V. - SHADRIN, Andrey M. - SOLONIN, Alexander S. - LEONTIEVSKY, Alexey A. Xylanases of *Cellulomonas flavigena*: expression, biochemical characterization, and biotechnological potential. In *AMB EXPRESS*. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
11. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-oligosaccharides and arabinoxyloligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 260, no., pp. 53-61., Registrované v: WOS
12. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium *Herbinix hemicellulosilytica*-Six new xylanases, three arabinofuranosidases and one xylosidase. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS
13. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mingan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS
14. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of *Magnaporthe oryzae*. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS
15. [1.1] PABLO ACEVED, Juan - REETZ, Manfred T. - ASENJO, Juan A. - PARRA, Loreto P. One-step combined focused epPCR and saturation mutagenesis for thermostability evolution of a new cold-active xylanase. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 100, no., pp. 60-70., Registrované v: WOS
16. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS
17. [1.1] SENF, Deborah - RUPRECHT, Colin - DE KRUIJFF, Goswinus H. M. - SIMONETTI, Sebastian O. - SCHUHMACHER, Frank - SEEBERGER, Peter H. - PFRENGLE, Fabian. Active Site Mapping of Xylan-Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by

Automated Glycan Assembly. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 13, pp. 3197-3205., Registrované v: WOS

18. [1.1] SHIBATA, Nozomu - SUETSUGU, Mari - KAKESHITA, Hiroshi - IGARASHI, Kazuaki - HAGIHARA, Hiroshi - TAKIMURA, Yasushi. A novel GH10 xylanase from *Penicillium sp* accelerates saccharification of alkaline-pretreated bagasse by an enzyme from recombinant *Trichoderma reesei* expressing *Aspergillus beta-glucosidase*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

19. [1.1] SRIVASTAVA, Praveen Kumar - PANWAR, Deepesh - PRASHANTH, K. V. Harish - KAPOOR, Mukesh. Structural Characterization and in Vitro Fermentation of beta-Mannooligosaccharides Produced from Locust Bean Gum by GH-26 endo-beta-1,4-Mannanase (ManB-1601). In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 13, pp. 2827-2838., Registrované v: WOS

20. [1.1] WALKER, Johnnie A. - PATTATHIL, Sivakumar - BERGEMAN, Lai F. - BEEBE, Emily T. - DENG, Kai - MIRZAI, Maryam - NORTHEM, Trent R. - HAHN, Michael G. - FOX, Brian G. Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

21. [1.1] WANG, Guozeng - WU, Jingjing - YANG, Renxiang - LIN, Juan - YE, Xiuyun. A Novel Multi-domain High Molecular, Salt-Stable Alkaline Xylanase from *Alkalibacterium sp* SL3. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 7, no., pp., Registrované v: WOS

22. [1.1] YU, Long - YAKUBOV, Gleb E. - ZENG, Wei - XING, Xiaohui - STENSON, John - BULONE, Vincent - STOKES, Jason R. Multi-layer mucilage of *Plantago ovata* seeds: Rheological differences arise from variations in arabinoxylan side chains. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 165, no., pp. 132-141., Registrované v: WOS

ADCA62 BIELY, Peter - HIRSCH, Ján - LA GRANGE, Daniel C. - VAN ZYL, Willem H. A chromogenic substrate for a beta-xylosidase-coupled assay of alpha-glucuronidase. In *Analytical Biochemistry*, 2000, vol. 286, p. 289-294. ISSN 0003-2697.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

ADCA63 BIELY, Peter - CZISZÁROVÁ, Mária - AGGER, Jane W. - LI, Xin-Liang - PUCHART, Vladimír - VRŠANSKÁ, Mária - EIJSINK, Vincent G. H. - WESTERENG, Bjorge. *Trichoderma reesei* CE16 acetyl esterase and its role in enzymatic degradation of acetylated hemicellulose. In *Biochimica et Biophysica Acta : general subjects*, 2014, vol. 1840, p. 516-525. (3.829 - IF2013). (2014 - Current Contents). ISSN 0304-4165.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

3. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS

ADCA64 BIELY, Peter - CZISZÁROVÁ, Mária - UHLIARIKOVÁ, Iveta - AGGER, Jane W. - LI, Xin-Liang - EIJSINK, Vincent G.H. - WESTERENG, Bjorge. Mode of action of acetylxyylan 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. (3.848 - IF2012). (2013 - Current Contents). ISSN 0304-4165.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] RIVAS, Sandra - SANTOS, Valentin - PARAJO, Juan Carlos. Aqueous fractionation of hardwood: selective glucuronoxylan solubilisation and purification of the reaction products. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2017, vol. 92, no. 2, pp. 367-374., Registrované v: WOS
- ADCA65 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.
- Citácie:
1. [1.1] MAITI, Krishnagopal - SAMANTA, Gopal Kumar - DASKHAN, Gour Chand - JAYARAMAN, N. Chemical and enzymatic approaches to the synthesis of cyclic oligosaccharides. In *CARBOHYDRATE CHEMISTRY*, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 165-209., Registrované v: WOS
2. [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS
- ADCA66 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] BONORA, Beatrice - BOOS, Irene - CLAUSEN, Mads H. Convergent strategy for the synthesis of S-linked oligoxylans. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 443, no., pp. 53-57., Registrované v: WOS
2. [1.1] CHU, Yindi - TU, Tao - PENTTINEN, Leena - XUE, Xianli - WANG, Xiaoyu - YI, Zhuolin - GONG, Li - ROUVINEN, Juha - LUO, Huiying - HAKULINEN, Nina - YAO, Bin - SU, Xiaoyun. Insights into the roles of non-catalytic residues in the active site of a GH10 xylanase with activity on cellulose. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 47, pp. 19315-19327., Registrované v: WOS
3. [1.1] LIU, Ming-qi - HUO, Wen-kang - XU, Xin - WENG, Xiao-yan. Recombinant *Bacillus amyloliquefaciens* xylanase A expressed in *Pichia pastoris* and generation of xylooligosaccharides from xylans and wheat bran. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 656-663., Registrované v: WOS
4. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mingan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS
5. [1.1] TANAKA, Jun - FUKAMIZO, Tamo - OHNUMA, Takayuki. Enzymatic properties of a GH19 chitinase isolated from rice lacking a major loop structure involved in chitin binding. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2017, vol. 27, no. 5, pp. 477-485., Registrované v: WOS
- ADCA67 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. (1.736 - IF2013). (2014 - Current Contents, SCOPUS, WOS). ISSN 0141-5492.
- Citácie:
1. [1.1] GULLON, Beatriz - LU-CHAU, Thelmo A. - MOREIRA, Maria Teresa - LEMA, Juan M. - EIBES, Gemma. Rutin: A review on extraction, identification and purification methods, biological activities and approaches to enhance its bioavailability. In *TRENDS IN FOOD SCIENCE & TECHNOLOGY*. ISSN 0924-2244, 2017, vol. 67, no., pp. 220-235., 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] Group Author(s): Uniprot Consortium. O42814. In: <http://www.uniprot.org/uniprot/O42814>, Registrované v: WOS
2. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 α -glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
3. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase

from *Bacillus halodurans* C-125. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS

4. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

5. [1.2] RANA, Vandana - RANA, Diwakar. Role of microorganisms in lignocellulosic biodegradation. In *SpringerBriefs in Applied Sciences and Technology*. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 19-67., Registrované v: SCOPUS

ADCA69

BIELY, Peter - COTE, G.L. - KREMNIČKÝ, Ľubomír - WEISLEDER, L. - GREENE, R.V. Substrate specificity of acetyl xylan esterase from *Schizophyllum commune*: Mode of action on acetylated carbohydrates. In *Biochimica et Biophysica Acta : protein structure and molecular enzymology*, 1996, vol. 1298, p. 209-222. ISSN 0167-4838.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS

ADCA70

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.

Citácie:

1. [1.1] MANAVALAN, Tamilvendan - LIU, Rui - ZHOU, Zhihua - ZOU, Gen. Optimization of acetyl xylan esterase gene expression in *Trichoderma reesei* and its application to improve the saccharification efficiency on different biomasses. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 160-166., Registrované v: WOS

2. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GANDLA, Madhavi Latha - BASHAR, Shamrat Shafiul - SPARRMAN, Tobias - AHVENAINEN, Patrik - HEDENSTROM, Mattias - OZPARPUCU, Merve - RUGGERBERG, Markus - SERIMAA, Ritva - LAWOKO, Martin - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. In vitro deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

3. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase from *Aspergillus niger* BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS

4. [1.2] CHEN, Yang Lei - JI, Xing Xiang - XU, Feng. Technical Progress in Xylanase Bio-bleaching of Pulp. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2017-12-01, 36, 12, pp. 74-78., Registrované v: SCOPUS

5. [1.2] LEŠČIĆ AŠLER, Ivana - PEHAREC ŠTEFANIĆ, Petra - BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN, Martina - KOJIĆ-PRODIĆ, Biserka. Horseradish esterases: detection, purification and identification. In *Plant Cell, Tissue and Organ Culture*. ISSN 01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS

6. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS

ADCA71

BIELY, Peter - MASTIHUBOVÁ, Mária - TENKANEN, Maija - EYZAGUIRRE, Jaime - LI, Xin-Liang - VRŠANSKÁ, Mária. Action of xylan deacetylating enzymes on monoacetyl derivatives of 4-nitrophenyl glycosides of beta-D-xylopyranose and alpha-L-arabinofuranose. In *Journal of Biotechnology*, 2011, vol. 151, p. 137-142. (2.970 - IF2010). (2011 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

2. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS

3. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling -

- WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS
- ADCA72 BIELY, Peter - MASTIHUBOVÁ, Mária - CÔTÉ, G.L. - GREEN, R.W. Mode of action of acetylxyloesterase 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.
- Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
- ADCA73 BIELY, Peter. Microbial carbohydrate esterases deacetylating plant polysaccharides. In *Biotechnology Advances*, 2012, vol. 30, p. 1575-1588. (9.646 - IF2011). (2012 - Current Contents). ISSN 0734-9750.
- Citácie:
1. [1.1] DA COSTA, Ricardo M. F. - PATTATHIL, Sivakumar - AVCI, Utku - LEE, Scott J. - HAZEN, Samuel P. - WINTERS, Ana - HAHN, Michael G. - BOSCH, Maurice. A cell wall reference profile for *Miscanthus* bioenergy crops highlights compositional and structural variations associated with development and organ origin. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1710-1725., Registrované v: WOS
2. [1.1] DEL RAYO SANCHEZ-CARBENTE, Maria - ALBERTO BATISTA-GARCIA, Ramon - SANCHEZ-REYES, Ayixon - ESCUDERO-GARCIA, Angela - MORALES-HERRERA, Catalina - CUERVO-SOTO, Laura I. - FRENCH-PACHECO, Leidys - FERNANDEZ-SILVA, Arline - AMERO, Carlos - CASTILLO, Edmundo - LUIS FOLCH-MALLOL, Jorge. The first description of a hormone-sensitive lipase from a basidiomycete: Structural insights and biochemical characterization revealed Bjerkandera adusta BaEstB as a novel esterase. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2017, vol. 6, no. 4, pp., Registrované v: WOS
3. [1.1] ESCUDERO, Viviana - JORDA, Lucia - SOPENA-TORRES, Sara - MELIDA, Hugo - MIEDES, Eva - MUNOZ-BARRIOS, Antonio - SWAMI, Sanjay - ALEXANDER, Danny - MCKEE, Lauren S. - SANCHEZ-VALLET, Andrea - BULONE, Vincent - JONES, Alan M. - MOLINA, Antonio. Alteration of cell wall xylan acetylation triggers defense responses that counterbalance the immune deficiencies of plants impaired in the beta-subunit of the heterotrimeric G-protein. In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 92, no. 3, pp. 386-399., Registrované v: WOS
4. [1.1] HASKE-CORNELIUS, Oskar - PELLIS, Alessandro - TEGL, Gregor - WURZ, Stefan - SAAKE, Bodo - LUDWIG, Roland - SEBASTIAN, Andries - NYANHONGO, Gibson S. - GUEBITZ, Georg M. Enzymatic Systems for Cellulose Acetate Degradation. In *CATALYSTS*. ISSN 2073-4344, 2017, vol. 7, no. 10, pp., Registrované v: WOS
5. [1.1] HENSKE, John K. - GILMORE, Sean P. - KNOP, Doriv - CUNNINGHAM, Francis J. - SEXTON, Jessica A. - SMALLWOOD, Chuck R. - SHUTTHANANDAN, Vaithiyalingam - EVANS, James E. - THEODOROU, Michael K. - O'MALLEY, Michelle A. Transcriptomic characterization of *Caecomyces churrovis*: a novel, non-rhizoid-forming lignocellulolytic anaerobic fungus. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
6. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99., Registrované v: WOS
7. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
8. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS
9. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
10. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND*

- PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
11. [1.1] MANAVALAN, Tamilvendan - LIU, Rui - ZHOU, Zhihua - ZOU, Gen. Optimization of acetyl xylan esterase gene expression in *Trichoderma reesei* and its application to improve the saccharification efficiency on different biomasses. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 160-166., Registrované v: WOS
12. [1.1] ONAGA, Geoffrey - WYDRA, Kerstin D. - KOOPMANN, Birger - SERE, Yakouba - VON TIEDEMANN, Andreas. Elevated temperature increases in planta expression levels of virulence related genes in *Magnaporthe oryzae* and compromises resistance in *Oryza sativa* cv. Nipponbare. In *FUNCTIONAL PLANT BIOLOGY*. ISSN 1445-4408, 2017, vol. 44, no. 3, pp. 358-371., Registrované v: WOS
13. [1.1] PAWAR, Prashant Mohan-Anupama - RATKE, Christine - BALASUBRAMANIAN, Vimal K. - CHONG, Sun-Li - GANDLA, Madhavi Latha - ADRIASOLA, Mathilda - SPARRMAN, Tobias - HEDENSTROM, Mattias - SZWAJ, Klaudia - DERBA-MACELUCH, Marta - GAERTNER, Cyril - MOUILLE, Gregory - EZCURRA, Ines - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 214, no. 4, pp. 1491-1505., Registrované v: WOS
14. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
15. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS
16. [1.1] WU, Guojun - ZHANG, Chenhong - WU, Huan - WANG, Ruirui - SHEN, Jian - WANG, Linghua - ZHAO, Yufeng - PANG, Xiaoyan - ZHANG, Xiaojun - ZHAO, Liping - ZHANG, Menghui. Genomic Microdiversity of *Bifidobacterium pseudocatenulatum* Underlying Differential Strain-Level Responses to Dietary Carbohydrate Intervention. In *MBIO*. ISSN 2150-7511, 2017, vol. 8, no. 1, pp., Registrované v: WOS
17. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
18. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling - WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS
19. [1.2] GONZÁLEZ-GONZÁLEZ, Roberto - FUCÍNOS, Pablo - RÚA, María Luisa. An overview on Extremophilic esterases. In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 181-204., Registrované v: SCOPUS
20. [1.2] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Gene expression metadata analysis reveals molecular mechanisms employed by *Phanerochaete chrysosporium* during lignin degradation and detoxification of plant extractives. In *Current Genetics*. ISSN 01728083, 2017-10-01, 63, 5, pp. 877-894., Registrované v: SCOPUS

ADCA74

BIELY, Peter. Microbial glucuronoyl esterases: 10 years after discovery. In *Applied and Environmental Microbiology*, 2016, vol. 32, p. 7014-7018. (3.823 - IF2015). (2016 - Current Contents). ISSN 0099-2240.

Citácie:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] WONG, Mabel T. - WANG, Weijun - COUTURIER, Marie - RAZEQ, Fakhria M. - LOMBARD, Vincent - LAPEBIE, Pascal - EDWARDS, Elizabeth A. - TERRAPON, Nicolas - HENRISSAT, Bernard - MASTER, Emma R. Comparative Metagenomics of Cellulose- and Poplar Hydrolysate-Degrading Microcosms from Gut Microflora of the Canadian Beaver (*Castor canadensis*) and North American Moose (*Alces americanus*) after Long-Term Enrichment. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

ADCA75

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.

Citácie:

1. [1.1] VISHWANATHA, Akshay - D';SOUZA, Cletus Joseph Michael. Multifaceted Effects of

Antimetabolite and Anticancer Drug, 2-Deoxyglucose on Eukaryotic Cancer Models Budding and Fission Yeast. In IUBMB LIFE. ISSN 1521-6543, 2017, vol. 69, no. 3, pp. 137-147., Registrované v: WOS

ADCA76

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. (9.848 - IF2015). (2016 - Current Contents). ISSN 0734-9750.

Citácie:

1. [1.1] HEINZE, Simon - MECHELKE, Matthias - KORNBERGER, Petra - LIEBL, Wolfgang - SCHWARZ, Wolfgang H. - ZVERLOV, Vladimir V. Identification of endoxylanase XynE from *Clostridium thermocellum* as the first xylanase of glycoside hydrolase family GH141. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] LI, Cheng-Xi - ZHAO, Shuai - ZHANG, Ting - XIAN, Liang - LIAO, Lu-Sheng - LIU, Jun-Liang - FENG, Jia-Xun. Genome sequencing and analysis of *Talaromyces pinophilus* provide insights into biotechnological applications. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS
4. [1.1] MALGAS, Samkelo - THORESEN, Mariska - VAN DYK, J. Susan - PLETSCHKE, Brett I. Time dependence of enzyme synergism during the degradation of model and natural lignocellulosic substrates. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 103, no., pp. 1-11., Registrované v: WOS
5. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium *Herbinix hemicellulosilytica*-Six new xylanases, three arabinofuranosidases and one xylosidase. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS
6. [1.1] ORITA, Taku - SAKKA, Makiko - KIMURA, Tetsuya - SAKKA, Kazuo. Characterization of *Ruminiclostridium josui* arabinoxylan arabinofuranohydrolase, RjAxx43B, and RjAxx43B-containing xylanolytic complex. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 104, no., pp. 37-43., Registrované v: WOS
7. [1.1] SONI, Surabhi - SATHE, Sneha S. - ODANETH, Annamma A. - LALI, Arvind M. - CHANDRAYAN, Sanjeev K. SGNH hydrolase-type esterase domain containing Cbes-AcXE2: a novel and thermostable acetyl xylan esterase from *Caldicellulosiruptor bescii*. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 4, pp. 687-697., Registrované v: WOS
8. [1.1] SPORCK, Daniele - REINOSO, Felipe A. M. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - FERRAZ, Andre - MILAGRES, Adriane M. F. Xylan extraction from pretreated sugarcane bagasse using alkaline and enzymatic approaches. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
9. [1.1] WILKENS, Casper - BUSK, Peter Kamp - PILGAARD, Bo - ZHANG, Wen-Jing - NIELSEN, Kare L. - NIELSEN, Per Halkjaer - LANGE, Lene. Diversity of microbial carbohydrate-active enzymes in Danish anaerobic digesters fed with wastewater treatment sludge. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

ADCA77

BIELY, Peter - VRŠANSKÁ, Mária - CLAEYSSSENS, 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.

Citácie:

1. [1.1] MATSUZAWA, Tomohiko - WATANABE, Masahiro - YAOI, Katsuro. Improved thermostability of a metagenomic glucose-tolerant beta-glycosidase based on its X-ray crystal structure. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 23-24, pp. 8353-8363., Registrované v: WOS
2. [1.1] MATSUZAWA, Tomohiko - YAOI, Katsuro. Screening, identification, and characterization of a novel saccharide-stimulated beta-glycosidase from a soil metagenomic library. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 2, pp. 633-646., Registrované v: WOS

ADCA78

BIELY, Peter - VRŠANSKÁ, Mária - KRÁTKY, Zdeno. Xylan degrading enzymes of the yeast *Cryptococcus albidus*. Identification and cellular localization. In *European Journal of Biochemistry*, 1980, vol.108, ., p. 313-321. ISSN 0014-2956.

Citácie:

1. [1.1] SENA, Leticia M. F. - MORAIS, Camila G. - LOPES, Mariana R. - SANTOS, Renata O. - UETANABARO, Ana P. T. - MORAIS, Paula B. - VITAL, Marcos J. S. - DE MORAIS, Marcos A. - LACHANCE, Marc-Andre - ROSA, Carlos A. d-Xylose fermentation, xylitol production and

- xylanase activities by seven new species of Sugiyamaella. In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2017, vol. 110, no. 1, pp. 53-67., Registrované v: WOS*
2. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS
3. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
- ADCA79 BIELY, Peter - PUCHART, Vladimír - CÔTÉ, G.L. Enzymic alpha-galactosylation of a cyclic glucotetrasaccharide derived from alternan. In Carbohydrate Research, 2001, vol. 332, p. 299-303. (1.606 - IF2000). (2001 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.1] MASTIHUBA, Vladimír - MASTIHUBOVA, Maria - BELAK, Miroslav - DUDIKOVA, Jana - POTOCKA, Elena Karnisova - PETRUS, Ladislav. Preparation of alpha-galactooligosides by cell walls from *Cryptococcus laurentii* using a novel alpha-galactosyl donor. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS
- ADCA80 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. (3.986 - IF2013). (2014 - Current Contents). ISSN 1742-464X.
Citácie:
1. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. Trichoderma reesei xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS
- ADCA81 BIELY, Peter - WONG, K.K.Y. - SUCKLING, I.D. - ŠPÁNIKOVÁ, Silvia. Transacetylations to carbohydrates catalyzed by acetylxylin in the presence of organic solvent. In Biochimica et Biophysica Acta, 2003, vol.1623, p. 62-71. ISSN 0006-3002.
Citácie:
1. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
- ADCA82 BILANIČOVÁ, Dagmar - MASTIHUBA, Vladimír - MASTIHUBOVÁ, Mária - BÁLEŠOVÁ, Jana - SCHMIDT, Štefan. Improvements in enzymatic preparation of alkyl glycosides. In Czech Journal of Food Sciences, 2010, vol. 28, p. 69-73. (0.602 - IF2009). (2010 - Current Contents). ISSN 1212-1800.
Citácie:
1. [1.1] VERA, Carlos - GUERRERO, Cecilia - WILSON, Lorena - ILLANES, Andres. Optimization of reaction conditions and the donor substrate in the synthesis of hexyl-beta-D-galactoside LE. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 128-136., Registrované v: WOS
- ADCA83 BÍLIKOVÁ, Katarína - HANES, J. - NORDHOFF, E. - SAENGER, W. - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Apisimin, a new serine-valine-rich peptide from honeybee (*Apis mellifera* L.) royal jelly: purification and molecular characterization. In FEBS Letters, 2002, vol.528, p. 125-129. ISSN 1873-3468.
Citácie:
1. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - BISSON-ROWE, Liana - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Correlation of the immunostimulatory activities of honeys with their contents of identified bioactives. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 39-46., Registrované v: WOS
2. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJPI) by Mass Spectrometry and Complementary Biophysical Tools. In BIOCHEMISTRY. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS
3. [1.1] PENG, Chi-Chung - SUN, Hui-Tzu - LIN, I-Ping - KUO, Ping-Chung - LI, Jen-Chieh. The functional property of royal jelly 10-hydroxy-2-decanoic acid as a melanogenesis inhibitor. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2017, vol. 17, no., pp., Registrované v: WOS
4. [1.2] VIUDA-MARTOS, Manuel - PÉREZ-ALVAREZ, José A. - FERNÁNDEZ-LÓPEZ, Juana.

- ADCA84 *Royal jelly: Health benefits and uses in medicine. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 199-218., Registrované v: SCOPUS*
BÍLIKOVÁ, Katarína - WU, G.S. - ŠIMÚTH, Jozef. Isolation of a peptide fraction honeybee royal jelly as a potential antifoulbrood factor. In *Apidologie* Vol. 32, (2001), p. 275-283. ISSN 0044-8435.
 Citácie:
 1. [1.1] BORBA, Renata S. - SPIVAK, Marla. Propolis envelope in *Apis mellifera* colonies supports honey bees against the pathogen, *Paenibacillus* larvae. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
 2. [1.1] MARIA ALONSO-SALCES, Rosa - MELINA CUGNATA, Noelia - GUASPARI, Elisa - CELESTE PELLEGRINI, Maria - AUBONE, Ines - GISELLE DE PIANO, Fiorella - ANTUNEZ, Karina - ROSA FUSELLI, Sandra. Natural strategies for the control of *Paenibacillus* larvae, the causative agent of American foulbrood in honey bees: a review. In *APIDOLOGIE*. ISSN 0044-8435, 2017, vol. 48, no. 3, pp. 387-400., Registrované v: WOS
 3. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In *ENVIRONMENTAL MICROBIOLOGY REPORTS*. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS
 4. [1.2] Fuselli, S. R., Cugnata, N. M., Marínez, P. G., & Alonso-Salces, R. M. (2017). In *Control and Prevention of American Foulbrood in Honey Bees* (Nova Science Publishers, pp. 1-128), Registrované v: SCOPUS
 5. [1.2] ZHAO, Fangyuan - WU, Yajun - GE, Yiqiang - CHEN, Ying. Proteomics Analysis of Royal Jelly at Different Storage Condition. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-10-30, 17, 10, pp. 248-253., Registrované v: SCOPUS
- ADCA85 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. (4.573 - IF2014). (2015 - Current Contents). ISSN 0021-9258.
 Citácie:
 1. [1.1] WOODS, N. - NIWASABUTRA, K. - ACEVEDO, R. - IGOLI, J. - ALTWAIJRY, N. A. - TUSIMIRE, J. - GRAY, A. I. - WATSON, D. G. - FERRO, V. A. Natural Vaccine Adjuvants and Immunopotentiators Derived From Plants, Fungi, Marine Organisms, and Insects. In *IMMUNOPOTENTIATORS IN MODERN VACCINES, 2ND EDITION*, 2017, vol., no., pp. 211-229., Registrované v: WOS
- ADCA86 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. (4.001 - IF2014). (2015 - Current Contents). ISSN 1742-464X.
 Citácie:
 1. [1.1] AIMANIANDA, Vishukumar - SIMENEL, Catherine - GARNAUD, Cecile - CLAVAUD, Cecile - TADA, Rui - BARBIN, Lise - MOUYNA, Isabelle - HEDDERGOTT, Christoph - POPOLO, Laura - OHYA, Yoshikazu - DELEPIERRE, Muriel - LATGE, Jean-Paul. The Dual Activity Responsible for the Elongation and Branching of beta-(1,3)-Glucan in the Fungal Cell Wall. In *MBIO*. ISSN 2150-7511, 2017, vol. 8, no. 3, pp., Registrované v: WOS
 2. [1.1] DAVID, Benoit - IRAGUE, Romain - JOUANNEAU, Diane - DALIGAULT, Franck - CZJZEK, Mirjam - SANEJOUAND, Yves-Henri - TELLIER, Charles. Internal Water Dynamics Control the Transglycosylation/Hydrolysis Balance in the Agarase (AgaD) of *Zobellia galatanivorans*. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 5, pp. 3357-3367., Registrované v: WOS
 3. [1.1] QIN, Zhen - YANG, Shaoqing - ZHAO, Liming - YOU, Xin - YAN, Qiaojuan - JIANG, Zhengqiang. Catalytic Mechanism of a Novel Glycoside Hydrolase Family 16 "Elongating" Transglycosylase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 5, pp. 1666-1678., 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. (3.147 - IF2014). (2015 - Current Contents). ISSN 0959-6658.
 Citácie:
 1. [1.1] ALBESA-JOVE, David - ANGELA SAINZ-POLO, M. - MARINA, Alberto - GUERIN, Marcelo E. Structural Snapshots of alpha-1,3-Galactosyltransferase with Native Substrates: Insight into the Catalytic Mechanism of Retaining Glycosyltransferases. In *ANGEWANDTE*

CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2017, vol. 56, no. 47, pp. 14853-14857., Registrované v: WOS

2. [1.1] BLACKLER, Ryan J. - GAGNON, Susannah M. L. - POLAKOWSKI, Robert - ROSE, Natisha L. - ZHENG, Ruixiang B. - LETTS, James A. - JOHAL, Asha R. - SCHUMAN, Brock - BORISOVA, Svetlana N. - PALCIC, Monica M. - EVANS, Stephen V. Glycosyltransfer in mutants of putative catalytic residue Glu303 of the human ABO(H) A and B blood group glycosyltransferases GTA and GTB proceeds through a labile active site. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 4, pp. 370-380., Registrované v: WOS

3. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS

4. [1.1] GAGNON, Susannah M. L. - LEGG, Max S. G. - SINDHUWINATA, Nora - LETTS, James A. - JOHAL, Asha R. - SCHUMAN, Brock - BORISOVA, Svetlana N. - PALCIC, Monica M. - PETERS, Thomas - EVANS, Stephen V. High-resolution crystal structures and STD NMR mapping of human ABO(H) blood group glycosyltransferases in complex with trisaccharide reaction products suggest a molecular basis for product release. In GLYCOBIOLOGY. ISSN 0959-6658, 2017, vol. 27, no. 10, pp. 966-977., Registrované v: WOS

5. [1.1] GRIMM, Lena Lisbeth - WEISSBACH, Sophie - FLUEGGE, Friedemann - BEGEMANN, Nora - PALCIC, Monica M. - PETERS, Thomas. Protein NMR Studies of Substrate Binding to Human Blood Group A and B Glycosyltransferases. In CHEMBIOCHEM. ISSN 1439-4227, 2017, vol. 18, no. 13, pp. 1260-1269., Registrované v: WOS

6. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS

7. [1.1] PETERS, Thomas. NMR Analysis of Glycosyltransferases. In NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 2044-253X, 2017, vol. 10, no., pp. 179-193., Registrované v: WOS

ADCA88

BOBOVSKÁ, Adela - TVAROŠKA, Igor - KÓŇA, Juraj. A theoretical study on the catalytic mechanism of the retaining α -1,2-mannosyltransferase Kre2p/Mnt1p: the impact of different metal ions on catalysis. In Organic and Biomolecular Chemistry, 2014, vol. 12, p. 4201-4210. (3.487 - IF2013). (2014 - Current Contents). ISSN 1477-0520.

Citácie:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS

2. [1.1] COLLIER, Alice - WAGNER, Gerd K. Base-modified GDP-mannose derivatives and their substrate activity towards a yeast mannosyltransferase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 91-96., Registrované v: WOS

3. [1.1] IGLESIAS-FERNANDEZ, Javier - HANCOCK, Susan M. - LEE, Seung Seo - KHAN, Maola - KIRKPATRICK, Jo - OLDHAM, Neil J. - MCAULEY, Katherine - FORDHAM-SKELTON, Anthony - ROVIRA, Carme - DAVIS, Benjamin G. A front-face ^1H NMR synthesis: engineered from a retaining ^1H -double-S(N) 2^1 ; hydrolase. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 8, pp. 874-+, Registrované v: WOS

4. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS

ADCA89

BORRISS, R. - ZEMEK, Juraj - AUGUSTÍN, Juraj - KUNIÁK, Ľudovít - PÁČOVÁ, Z. β -1,3-1,4-Glucanase in spore-forming microorganisms. II. Production of β -glucan-hydrolases by various Bacillus species. In Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. 2. Abteilung, 1980, vol. 135, p.435-442.

Citácie:

1. [1.1] GUAN, Li-zeng - CAI, Jin-shun - ZHAO, Shuai - SUN, Yu-ping - WANG, Jing-lan - JIANG, Yong - SHU, Gang - JIANG, Qing-yan - WU, Zhen-fang - XI, Qian-yun - ZHANG, Yong-liang. Improvement of anti-nutritional effect resulting from beta-glucanase specific expression in the parotid gland of transgenic pigs. In TRANSGENIC RESEARCH. ISSN 0962-8819, 2017, vol. 26, no. 1, pp. 1-11., Registrované v: WOS

ADCA90

BORRISS, R. - ZEMEK, Juraj. β -1,3-1,4-Glucanase in spore-forming microorganisms. IV. Properties

of some Bacillus- β -glucan-hydrolases. In Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. 2. Abteilung, 1981, vol. 136, p. 63-69.

Citácie:

- [1.1] WEBSTER, Gina R. - TEH, Audrey Y.H. - MA, Julian K.C. *Synthetic gene design The rationale for codon optimization and implications for molecular pharming in plants. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 3, pp. 492-502., Registrované v: WOS*

ADCA91

BOTH, Peter - SOBCZAK, Lukas - BRETON, Christelle - HANN, Stephan - NOBAUER, Katharina - PASCHINGER, Katharina - KOZMON, Stanislav - MUCHA, Ján - WILSON, Iain B.H. Distantly related plant and nematode core α 1,3-fucosyltransferases display similar trends in structure-function relationships. In Glycobiology, 2011, vol. 21, p. 1401-1415. (3.791 - IF2010). (2011 - Current Contents). ISSN 0959-6658.

Citácie:

- [1.1] Group Author(s): Uniprot Consortium. G5EDR5. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/G5EDR5>, Registrované v: WOS
- [1.1] Group Author(s): Uniprot Consortium. Q9LJK1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9LJK1>, Registrované v: WOS
- [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp. 255-422., Registrované v: WOS
- [1.1] OKADA, Takahiro - IHARA, Hideyuki - ITO, Ritsu - IKEDA, Yoshitaka. Molecular cloning and functional expression of Lewis type α 1,3/ α 1,4-fucosyltransferase cDNAs from *Mangifera indica* L. In PHYTOCHEMISTRY. ISSN 0031-9422, 2017, vol. 144, no., pp. 98-105., Registrované v: WOS
- [1.1] WANG, Peng - WANG, Hong - GAI, Jiangtao - TIAN, Xiaoli - ZHANG, Xiaoxiao - LV, Yongzhi - JIAN, Yi. Evolution of protein N-glycosylation process in Golgi apparatus which shapes diversity of protein N-glycan structures in plants, animals. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA92

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)- α -D-Glcp-(1-3)- α -D-Glcp-(1-3)- α -D-Glcp-(1-). In Carbohydrate Research, 2000, vol.329, p. 655-665. (1.252 - IF1999). (2000 - Current Contents). ISSN 0008-6215.

Citácie:

- [1.1] LIGHT, Samuel H. - CAHOON, Laty A. - MAHASENAN, Kiran V. - LEE, Mijoon - BOGGESE, Bill - HALAVATY, Andrei S. - MOBASHERY, Shahriar - FREITAG, Nancy E. - ANDERSON, Wayne F. Transferase Versus Hydrolase: The Role of Conformational Flexibility in Reaction Specificity. In STRUCTURE. ISSN 0969-2126, 2017, vol. 25, no. 2, pp. 295-304., Registrované v: WOS
- [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS
- [1.1] TSUDA, Susumu - KOMATSU, Yuya - MINAMI, Yohei - UEDA, Ryoji - FUJIWARA, Shin-ichi - IWASAKI, Takanori - KUNIYASU, Hitoshi - KAMBE, Nobuaki. SYNTHESIS OF CYCLIC NIGEROSYLNIGEROSE (CNN) BIS-IMIDAZOLIUM SALTS. In HETEROCYCLES. ISSN 0385-5414, 2017, vol. 95, no. 2, pp. 1197-1203., Registrované v: WOS

ADCA93

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. (10.774 - IF2011). (2012 - Current Contents). ISSN 1936-0851.

Citácie:

- [1.1] AHMAD, Israr - MOZHI, Anbu - YANG, Lin - HAN, Qiusen - LIANG, Xingjie - LI, Chan - YANG, Rong - WANG, Chen. Graphene oxide-iron oxide nanocomposite as an inhibitor of A β 42 amyloid peptide aggregation. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2017, vol. 159, no., pp. 540-545., Registrované v: WOS
- [1.1] ANAND, Bibin G. - SHEKHAWAT, Dolat S. - DUBEY, Kriti - KAR, Karunakar. Uniform, Polycrystalline, and Thermostable Piperine-Coated Gold Nanoparticles to Target Insulin Fibril Assembly. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, 2017, vol. 3,

no. 6, pp. 1136-1145., Registrované v: WOS

3. [1.1] BAYSAL, Ipek - UCAR, Gulberk - GULTEKINOGLU, Merve - ULUBAYRAM, Kezban - YABANOGLU-CIFTCI, Samiye. Donepezil loaded PLGA-b-PEG nanoparticles: their ability to induce destabilization of amyloid fibrils and to cross blood brain barrier in vitro. In JOURNAL OF NEURAL TRANSMISSION. ISSN 0300-9564, 2017, vol. 124, no. 1, pp. 33-45., Registrované v: WOS

4. [1.1] BELLUCCI, Luca - BUSSI, Giovanni - DI FELICE, Rosa - CORNI, Stefano. Fibrillation-prone conformations of the amyloid-beta-42 peptide at the gold/water interface. In NANOSCALE. ISSN 2040-3364, 2017, vol. 9, no. 6, pp. 2279-2290., Registrované v: WOS

5. [1.1] GAGLIARDI, Mariacristina - BORRI, Claudia. Polymer Nanoparticles as Smart Carriers for the Enhanced Release of Therapeutic Agents to the CNS. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2017, vol. 23, no. 3, pp. 393-410., Registrované v: WOS

6. [1.1] HANE, Francis T. - LEE, Brenda Y. - LEONENKO, Zoya. Recent Progress in Alzheimer's Disease Research, Part 1: Pathology. In JOURNAL OF ALZHEIMERS DISEASE. ISSN 1387-2877, 2017, vol. 57, no. 1, pp. 1-28., Registrované v: WOS

7. [1.1] LIN, Sijie - MORTIMER, Monika - CHEN, Ran - KAKINEN, Aleksandr - RIVIERE, Jim E. - DAVIS, Thomas P. - DING, Feng - KE, Pu Chun. NanoEHS beyond toxicity focusing on biocorona. In ENVIRONMENTAL SCIENCE-NANO. ISSN 2051-8153, 2017, vol. 4, no. 7, pp. 1433-1454., Registrované v: WOS

8. [1.1] MACHADO-PEREIRA, Marta - SANTOS, Tiago - BERNARDINO, Liliana - FERREIRA, Raquel. Vascular inter-regulation of inflammation: molecular and cellular targets for CNS therapy. In JOURNAL OF NEUROCHEMISTRY. ISSN 0022-3042, 2017, vol. 140, no. 5, pp. 692-702., Registrované v: WOS

9. [1.1] MARTINS, P. A. T. - ALSAIARI, S. - JULFAKYAN, K. - NIE, Z. - KHASHAB, N. M. Self-assembled lipoprotein based gold nanoparticles for detection and photothermal disaggregation of beta-amyloid aggregates. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 13, pp. 2102-2105., Registrované v: WOS

10. [1.1] RAHMANIAN, Nazanin - ESKANDANI, Morteza - BARAR, Jaleh - OMIDI, Yadollah. Recent trends in targeted therapy of cancer using graphene oxide-modified multifunctional nanomedicines. In JOURNAL OF DRUG TARGETING. ISSN 1061-186X, 2017, vol. 25, no. 3, pp. 202-215., Registrované v: WOS

11. [1.1] RAMIREZ-GARCIA, Gonzalo - D'ORLYE, Fanny - GUTIERREZ-GRANADOS, Silvia - MARTINEZ-ALFARO, Minerva - MIGNET, Nathalie - RICHARD, Cyrille - VARENNE, Anne. Electrokinetic Hummel-Dreyer characterization of nanoparticle-plasma protein corona: The non-specific interactions between PEG-modified persistent luminescence nanoparticles and albumin. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2017, vol. 159, no., pp. 437-444., Registrované v: WOS

12. [1.1] RUFF, J. - HUEWEL, S. - KOGAN, Marcelo J. - SIMON, Ulrich - GALLA, Hans-Joachim. The effects of gold nanoparticles functionalized with beta-amyloid specific peptides on an in vitro model of blood-brain barrier. In NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE. ISSN 1549-9634, 2017, vol. 13, no. 5, pp. 1645-1652., Registrované v: WOS

13. [1.1] WANG, Miaoyi - SIDDIQUI, Ghizal - GUSTAFSSON, Ove J. R. - KAKINEN, Aleksandr - JAVED, Ibrahim - VOELCKER, Nicolas H. - CREEK, Darren J. - KE, Pu Chun - DAVIS, Thomas P. Plasma Proteome Association and Catalytic Activity of Stealth Polymer-Grafted Iron Oxide Nanoparticles. In SMALL. ISSN 1613-6810, 2017, vol. 13, no. 36, pp., Registrované v: WOS

14. [1.1] WEI, Gang - SU, Zhiqiang - REYNOLDS, Nicholas P. - AROSIO, Paolo - HAMLEY, Ian W. - GAZIT, Ehud - MEZZENGA, Raffaele. Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2017, vol. 46, no. 15, pp. 4661-4708., Registrované v: WOS

15. [1.2] ORDÓÑEZ-GUTIÉRREZ, Lara - POSADO-FERNÁNDEZ, Adrián - AHMADVAND, Davoud - LETTIERO, Barbara - WU, Linping - ANTÓN, Marta - FLORES, Orfeu - MOGHIMI, Seyed Moein - WANDOSELL, Francisco. ImmunoPEGliposome-mediated reduction of blood and brain amyloid levels in a mouse model of Alzheimer's disease is restricted to aged animals. In Biomaterials. ISSN 01429612, 2017-01-01, 112, pp. 141-152., Registrované v: SCOPUS

16. [1.2] ÇETIN, Meltem - AYTEKIN, Eren - YAVUZ, Burçin - BOZDA-PEHLIVAN, Sibel. Nanoscience in Targeted Brain Drug Delivery. In Nanotechnology Methods for Neurological Diseases and Brain Tumors: Drug Delivery across the Blood-Brain Barrier, 2017-07-17, pp. 117-147., Registrované v: SCOPUS

ADCA94

BREIEROVÁ, Emília - VAJCIKOVÁ, I. - SASINKOVÁ, Vlasta - STRATILOVÁ, Eva - FIŠERA, 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] KORENKOVÁ, Lucia - URIK, Martin. Biosorbents. In BIOMATERIALS AS

- ADSORBENTS FOR METAL(LOID) WATER POLLUTANTS A REVIEW, 2017, vol., no., pp. 12-36., Registrované v: WOS
2. [1.1] MILANI, Jafar - HEIDARI, Sara. Stability of Ochratoxin a During Bread Making Process. In JOURNAL OF FOOD SAFETY. ISSN 0149-6085, 2017, vol. 37, no. 1, pp., Registrované v: WOS
3. [1.1] OZDEMIR, Sadin - ODUNCU, M. Kadir - KILINC, Ersin - SOYLAK, Mustafa. Tolerance and bioaccumulation of U(VI) by *Bacillus mojavensis* and its solid phase preconcentration by *Bacillus mojavensis* immobilized multiwalled carbon nanotube. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, 2017, vol. 187, no., pp. 490-496., Registrované v: WOS
4. [1.2] CHAUDHARY, Deepika - KUMAR, Rakesh - KUMARI, Anju - RASHMI - JANGRA, Raman. Biosynthesis of nanoparticles by microorganisms and their significance in sustainable agriculture. In Probiotics in Agroecosystem, 2017-09-26, pp. 93-115., Registrované v: SCOPUS
- ADCA95 BREIEROVÁ, Emília - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - ŠAJBIDOR, J. - LADZIANSKA, K. *Malassezia pachydermatis* properties and storage. In Mycoses, 1991, vol. 34, p. 252.
- Citácie:
1. [1.1] SILVA SERGENT, F. A. - ACOSTA-HERNANDEZ, B. - RADUAN JABER, J. - ROSARIO MEDINA, I. - FERRER QUINTANA, O. - REAL VALCARCEL, F. - PADILLA CASTILLO, D. - DENIZ SUAREZ, S. Preservation of *Malassezia pachydermatis* using skimmed milk as cryoprotective agent. In JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, 2017, vol. 132, no., pp. 166-167., Registrované v: WOS
- ADCA96 BREIEROVÁ, Emília - GREGOR, T. - MAROVÁ, I. - ČERTÍK, M. - KOGAN, Grigorij. Enhanced antioxidant formula based on a selenium-supplemented carotenoid-producing yeast biomass. In Chemistry & biodiversity, 2008, vol.5, p. 440-446. (1.420 - IF2007). (2008 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [1.1] WANG, Qiang - LIU, Dong - YANG, Qingxiang - WANG, Panliang. Enhancing carotenoid production in *Rhodotorula mucilaginosa* KC8 by combining mutation and metabolic engineering. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2017, vol. 67, no. 6, pp. 425-431., Registrované v: WOS
2. [1.2] VADKERTIOVÁ, Renáta - DUDÁŠOVÁ, Hana - BALAŠČÁKOVÁ, Marta. Yeasts in agricultural and managed soils. In Yeasts in Natural Ecosystems: Diversity, 2017-01-01, pp. 117-144., Registrované v: SCOPUS
- ADCA97 BREŽNÝ, Robert - ŠURINA, I. - KOŠÍK, M. Low temperature thermolysis of lignins. II. Thermofractography and thermal analysis of beta-o-4 model compounds. In Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood, 1984, vol. 38, pp. 19-24. ISSN 0018-3830.
- Citácie:
1. [1.1] HWANG, Hyewon - SAHIN, Olga - CHOI, Joon Weon. Manufacturing a super-active carbon using fast pyrolysis char from biomass and correlation study on structural features and phenol adsorption. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 67, pp. 42192-42202., Registrované v: WOS
2. [1.1] KAWAMOTO, Haruo. Lignin pyrolysis reactions. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2017, vol. 63, no. 2, pp. 117-132., Registrované v: WOS
3. [1.1] KAWAMOTO, Haruo. Molecular Mechanisms in the Thermochemical Conversion of Lignins into Bio-Oil/Chemicals and Biofuels. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 321-353., Registrované v: WOS
- ADCA98 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.
- Citácie:
1. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main components of *Helianthus annuus* stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS
2. [1.1] KAWAMOTO, Haruo. Lignin pyrolysis reactions. In JOURNAL OF WOOD SCIENCE. ISSN 1435-0211, 2017, vol. 63, no. 2, pp. 117-132., Registrované v: WOS
3. [1.1] KAWAMOTO, Haruo. Molecular Mechanisms in the Thermochemical Conversion of Lignins into Bio-Oil/Chemicals and Biofuels. In PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 321-353., Registrované v: WOS
- ADCA99 BRISSONNET, 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. (10.677 - IF2012). (2013 - Current Contents). ISSN 0002-7863.

Citácie:

1. [1.1] DOSEKOVA, Erika - FILIP, Jaroslav - BERTOK, Tomas - BOTH, Peter - KASAK, Peter - TKAC, Jan. *Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes*. In *MEDICINAL RESEARCH REVIEWS*. ISSN 0198-6325, 2017, vol. 37, no. 3, pp. 514-626., Registrované v: WOS
2. [1.1] FEI, Xiang - ZAVORKA, Megan E. - MALIK, Guillaume - CONNELLY, Christopher M. - MACDONALD, Richard G. - BERKOWITZ, David B. *General Linker Diversification Approach to Bivalent Ligand Assembly: Generation of an Array of Ligands for the Cation Independent Mannose 6-Phosphate Receptor*. In *ORGANIC LETTERS*. ISSN 1523-7060, 2017, vol. 19, no. 16, pp. 4267-4270., Registrované v: WOS
3. [1.1] NASEER, Muhammad Moazzam - AHMED, Mukhtiar - HAMEED, Shahid. *Functionalized calix[4]arenes as potential therapeutic agents*. In *CHEMICAL BIOLOGY & DRUG DESIGN*. ISSN 1747-0277, 2017, vol. 89, no. 2, pp. 243-256., Registrované v: WOS
4. [1.1] PEREIRA, Andreia T. - RIBEIRO, Antonio J. M. - FERNANDES, Pedro A. - RAMOS, Maria J. *Benchmarking of density functionals for the kinetics and thermodynamics of the hydrolysis of glycosidic bonds catalyzed by glycosidases*. In *INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY*. ISSN 0020-7608, 2017, vol. 117, no. 18, pp., Registrované v: WOS
5. [1.2] BALDINI, L. - CASNATI, A. - SANSONE, F. *Biomacromolecule Recognition by Calixarene Macrocycles*. In *Comprehensive Supramolecular Chemistry II*, 2017-06-22, 4, pp. 371-408., Registrované v: SCOPUS
6. [1.2] Sliwa, W., & Girek, T. (2017). In *Cyclodextrins: Properties and Applications* (Wiley, pp. 1-326), Registrované v: SCOPUS

ADCA100

BRISSONNET, 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. (4.513 - IF2014). (2015 - Current Contents). ISSN 1043-1802.

Citácie:

1. [1.1] DOSEKOVA, Erika - FILIP, Jaroslav - BERTOK, Tomas - BOTH, Peter - KASAK, Peter - TKAC, Jan. *Nanotechnology in Glycomics: Applications in Diagnostics, Therapy, Imaging, and Separation Processes*. In *MEDICINAL RESEARCH REVIEWS*. ISSN 0198-6325, 2017, vol. 37, no. 3, pp. 514-626., Registrované v: WOS
2. [1.1] ORTIZ MELLET, Carmen - NIERENGARTEN, Jean François - GARCÍA FERNÁNDEZ, José M. *Multivalency as an action principle in multimodal lectin recognition and glycosidase inhibition: A paradigm shift driven by carbon-based glyconanomaterials*. In *Journal of Materials Chemistry B*. ISSN 20507518, 2017-01-01, 5, 32, pp. 6428-6436., Registrované v: SCOPUS
3. [1.1] SLETTEN, Eric T. - LOKA, Ravi S. - YU, Fei - NGUYEN, Hien M. *Glycosidase Inhibition by Multivalent Presentation of Heparan Sulfate Saccharides on Bottlebrush Polymers*. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 10, pp. 3387-3399., Registrované v: WOS

ADCA101

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. ISSN 0028-646X.

Citácie:

1. [1.1] ABREU, Isidro - SAEZ, Angela - CASTRO-RODRIGUEZ, Rosario - ESCUDERO, Viviana - RODRIGUEZ-HAAS, Benjamin - SENOVILLA, Marta - LARUE, Camille - GROLIMUND, Daniel - TEJADA-JIMENEZ, Manuel - IMPERIAL, Juan - GONZALEZ-GUERRERO, Manuel. *Medicago truncatula Zinc-Iron Permease6 provides zinc to rhizobia-infected nodule cells*. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2017, vol. 40, no. 11, pp. 2706-2719., Registrované v: WOS
2. [1.1] AL-MAALI, G. A. *The influence of different compounds of trace elements on the biomass and synthesis of exopolysaccharides of mycelium Trametes versicolor (Polyporaceae, Polyporales)*. In *BIOSYSTEMS DIVERSITY*. ISSN 2310-0842, 2017, vol. 25, no. 4, pp. 289-296., Registrované v: WOS
3. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. *Tolerance and potential for bioaccumulation of Alternanthera tenella Colla to cadmium under in vitro conditions*. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
4. [1.1] ALPTEKIN, Burcu - LANGRIDGE, Peter - BUDAK, Hikmet. *Abiotic stress miRNomes in*

- the Triticeae. In *FUNCTIONAL & INTEGRATIVE GENOMICS*. ISSN 1438-793X, 2017, vol. 17, no. 2-3, pp. 145-170., Registrované v: WOS
5. [1.1] ALTUN, Serap Kilic - DINC, Hikmet - PAKSOY, Nilgun - TEMAMOGULLARI, Fusun Karacal - SAVRUNLU, Mehmet. Analyses of Mineral Content and Heavy Metal of Honey Samples from South and East Region of Turkey by Using ICP-MS. In *INTERNATIONAL JOURNAL OF ANALYTICAL CHEMISTRY*. ISSN 1687-8760, 2017, vol., no., pp., Registrované v: WOS
6. [1.1] AMOOAGHAIE, Rayhaneh - NOROUZI, Maryam - SAERI, Mohammad. Impact of zinc and zinc oxide nanoparticles on the physiological and biochemical processes in tomato and wheat. In *BOTANY*. ISSN 1916-2790, 2017, vol. 95, no. 5, pp. 441-455., Registrované v: WOS
7. [1.1] ANAND, Thangaraj - KUMAR, Ashok S. K. - SAHOO, Suban K. Vitamin B-6 Cofactor Derivative: A Dual Fluorescent Turn-On Sensor to Detect Zn²⁺ and CN⁻ Ions and Its Application in Live Cell Imaging. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2017, vol. 2, no. 25, pp. 7570-7579., Registrované v: WOS
8. [1.1] ASEMOLOYE, Michael Dare - JONATHAN, Segun Gbolagade - JAYEOLA, Adeniyi A. - AHMAD, Rafiq. Mediational influence of spent mushroom compost on phytoremediation of black-oil hydrocarbon polluted soil and response of *Megathyrus maximus* Jacq. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2017, vol. 200, no., pp. 253-262., Registrované v: WOS
9. [1.1] BANDYOPADHYAY, Tirthankar - MEHRA, Poonam - HAIRAT, Suboot - GIRI, Jitender. Morpho-physiological and transcriptome profiling reveal novel zinc deficiency-responsive genes in rice. In *FUNCTIONAL & INTEGRATIVE GENOMICS*. ISSN 1438-793X, 2017, vol. 17, no. 5, pp. 565-581., Registrované v: WOS
10. [1.1] BARRAMEDA-MEDINA, Yurena - BLASCO, Begona - LENTINI, Marco - ESPOSITO, Sergio - BAENAS, Nieves - MORENO, Diego A. - RUIZ, Juan M. Zinc biofortification improves phytochemicals and amino-acidic profile in *Brassica oleracea* cv. Bronco. In *PLANT SCIENCE*. ISSN 0168-9452, 2017, vol. 258, no., pp. 45-51., Registrované v: WOS
11. [1.1] BARRAMEDA-MEDINA, Yurena - LENTINI, Marco - ESPOSITO, Sergio - RUIZ, Juan M. - BLASCO, Begona. Zn-biofortification enhanced nitrogen metabolism and photorespiration process in green leafy vegetable *Lactuca sativa* L. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 6, pp. 1828-1836., Registrované v: WOS
12. [1.1] BITYUTSKII, Nikolai - YAKKONEN, Kirill - PETROVA, Anastasiya - NADPOROZHSKAYA, Marina. Xylem sap mineral analyses as a rapid method for estimation plant-availability of Fe, Zn and Mn in carbonate soils: a case study in cucumber. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9516, 2017, vol. 17, no. 2, pp. 279-290., Registrované v: WOS
13. [1.1] BOTHE, Hermann - SLOMKA, Aneta. Divergent biology of facultative heavy metal plants. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2017, vol. 219, no., pp. 45-61., Registrované v: WOS
14. [1.1] CALDELAS, Cristina - WEISS, Dominik Jakob. Zinc Homeostasis and isotopic fractionation in plants: a review. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 17-46., Registrované v: WOS
15. [1.1] CAMARGO GAI, Ana Paula - DOS SANTOS, Daniela Soares - VIEIRA, Evandro Alves. Effects of zinc excess on antioxidant metabolism, mineral content and initial growth of *Handroanthus impetiginosus* (Mart. ex DC.) Mattos and *Tabebuia roseoalba* (Ridl.) Sandwith. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2017, vol. 144, no., pp. 88-99., Registrované v: WOS
16. [1.1] CAMPOS, Ana Carolina A. L. - KRUIJER, Willem - ALEXANDER, Ross - AKKERS, Robert C. - DANKU, John - SALT, David E. - AARTS, Mark G. M. Natural variation in *Arabidopsis thaliana* reveals shoot ionome, biomass, and gene expression changes as biomarkers for zinc deficiency tolerance. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2017, vol. 68, no. 13, pp. 3643-3656., Registrované v: WOS
17. [1.1] CASTRO, Pedro Humberto - LILAY, Grmay H. - MUNOZ-MERIDA, Antonio - SCHJOERRING, Jan K. - AZEVEDO, Herlander - ASSUNCAO, Ana G. L. Phylogenetic analysis of F-bZIP transcription factors indicates conservation of the zinc deficiency response across land plants. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
18. [1.1] CHEN, Qin - ZHANG, Xiaoyan - LIU, Yuanyuan - WEI, Junyu - SHEN, Wenbiao - SHEN, Zhenguo - CUI, Jin. Hemin-mediated alleviation of zinc, lead and chromium toxicity is associated with elevated photosynthesis, antioxidative capacity; suppressed metal uptake and oxidative stress in rice seedlings. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2017, vol. 81, no. 2, pp. 253-264., Registrované v: WOS
19. [1.1] CHEN, Ying Y. - HU, Cheng Y. - XIAO, Jia X. Effects of arbuscular mycorrhizal fungi on the growth and zinc uptake of trifoliolate orange (*Poncirus trifoliata*) seedlings grown in low-zinc

- soil. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2017, vol. 40, no. 3, pp. 324-331., Registrované v: WOS
20. [1.1] CLEMENS, Stephan. How metal hyperaccumulating plants can advance Zn biofortification. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 111-120., Registrované v: WOS
21. [1.1] CRISTALDI, Antonio - CONTI, Gea Oliveri - JHO, Eun Hea - ZUCCARELLO, Pietro - GRASSO, Alfina - COPAT, Chiara - FERRANTE, Margherita. Phytoremediation of contaminated soils by heavy metals and PAHs. A brief review. In *ENVIRONMENTAL TECHNOLOGY & INNOVATION*. ISSN 2352-1864, 2017, vol. 8, no., pp. 309-326., Registrované v: WOS
22. [1.1] CUCHIARA, Cristina Copstein - LARRE, Cristina Ferreira - PETERS, Jose Antonio. Copper and zinc interactions: morphophysiological responses in sweet potato plants (*Ipomoea batatas* L.). In *IHERINGIA SERIE BOTANICA*. ISSN 0073-4705, 2017, vol. 72, no. 1, pp. 142-149., Registrované v: WOS
23. [1.1] Carballo-Valdés, María E; Martínez, Armando; Salgado, Irina; Pérez, Lizandra; Cruz, Mario; Liva, María B; Alleyne, Sheyla; Rodríguez, Mónica M; Garza, Yolanda. Standardization of variables involved in cadmium and zinc microbial removal from aqueous solutions. In: *Biología Aplicada Biología Aplicada* (2017) p. 1221-1225, Registrované v: WOS
24. [1.1] DALIR, Neda - TANDY, Susan - GRAMLICH, Anja - KHOSHGOFTARMANESH, Amir - SCHULIN, Rainer. Effects of nickel on zinc uptake and translocation in two wheat cultivars differing in zinc efficiency. In *ENVIRONMENTAL AND EXPERIMENTAL BOTANY*. ISSN 0098-8472, 2017, vol. 134, no., pp. 96-101., Registrované v: WOS
25. [1.1] DIETTERICH, Lee H. - GONNEAU, Cedric - CASPER, Brenda B. Arbuscular mycorrhizal colonization has little consequence for plant heavy metal uptake in contaminated field soils. In *ECOLOGICAL APPLICATIONS*. ISSN 1051-0761, 2017, vol. 27, no. 6, pp. 1862-1875., Registrované v: WOS
26. [1.1] EGUCHI, Masatake - KIMURA, Kazuhiko - MAKINO, Amame - ISHIDA, Hiroyuki. Autophagy is induced under Zn limitation and contributes to Zn-limited stress tolerance in *Arabidopsis* (*Arabidopsis thaliana*). In *SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0038-0768, 2017, vol. 63, no. 4, pp. 342-350., Registrované v: WOS
27. [1.1] EVENS, Nicholas P. - BUCHNER, Peter - WILLIAMS, Lorraine E. - HAWKESFORD, Malcolm J. The role of ZIP transporters and group F bZIP transcription factors in the Zn-deficiency response of wheat (*Triticum aestivum*). In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 92, no. 2, pp. 291-304., Registrované v: WOS
28. [1.1] FERRARA BARBOSA, Barbara Castanheira - SILVA, Samuel Chaves - DE OLIVEIRA, Raphael Ricon - CHALFUN, Antonio. Zinc supply impacts on the relative expression of a metallothionein-like gene in *Coffea arabica* plants. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 179-191., Registrované v: WOS
29. [1.1] FU, Xing-Zheng - ZHOU, Xue - XING, Fei - LING, Li-Li - CHUN, Chang-Pin - CAO, Li - AARTS, Mark G. M. - PENG, Liang-Zhi. Genome-Wide Identification, Cloning and Functional Analysis of the Zinc/Iron-Regulated Transporter-Like Protein (ZIP) Gene Family in *Trifoliate Orange* (*Poncirus trifoliata* L. Raf.). In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
30. [1.1] GALLEGGO, Berta - MARTOS, Soledad - CABOT, Catalina - BARCELO, Juan - POSCHENRIEDER, Charlotte. Zinc hyperaccumulation substitutes for defense failures beyond salicylate and jasmonate signaling pathways of *Alternaria brassicicola* attack in *Nocca caerulescens*. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2017, vol. 159, no. 4, pp. 401-415., Registrované v: WOS
31. [1.1] GARCIA-GOMEZ, Concepcion - OBRADOR, Ana - GONZALEZ, Demetrio - BABIN, Mar - DOLORES FERNANDEZ, Maria. Comparative effect of ZnO NPs, ZnO bulk and ZnSO₄ in the antioxidant defences of two plant species growing in two agricultural soils under greenhouse conditions. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2017, vol. 589, no., pp. 11-24., Registrované v: WOS
32. [1.1] GONNEAU, Cedric - MOHANTY, Sanjay K. - DIETTERICH, Lee H. - HWANG, Wei-Ting - WILLENBRING, Jane K. - CASPER, Brenda B. Differential elemental uptake in three pseudo-metallophyte C-4 grasses in situ in the eastern USA. In *PLANT AND SOIL*. ISSN 0032-079X, 2017, vol. 416, no. 1-2, pp. 149-163., Registrované v: WOS
33. [1.1] GONZALEZ, Agueda - MAR GIL-DIAZ, M. - PINILLA, Paloma - CARMEN LOBO, M. Impact of Cr and Zn on Growth, Biochemical and Physiological Parameters, and Metal Accumulation by Wheat and Barley Plants. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2017, vol. 228, no. 11, pp., Registrované v: WOS
34. [1.1] HEEREMA, Richard J. - VANLEEUWEN, Dawn - THOMPSON, Marisa Y. - SHERMAN, Joshua D. - COMEAU, Mary J. - WALWORTH, James L. Soil-application of Zinc-EDTA Increases Leaf Photosynthesis of Immature 'Wichita' Pecan Trees. In *JOURNAL OF THE AMERICAN*

- SOCIETY FOR HORTICULTURAL SCIENCE. ISSN 0003-1062, 2017, vol. 142, no. 1, pp. 27-35., Registrované v: WOS*
35. [1.1] HERRERA-AGUDELO, Monica A. - MIRO, Manuel - ARRUDA, Marco A. Z. *In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4 EPSPS gene) and nontransgenic precursor/successor soybean seeds. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 225, no., pp. 125-131., Registrované v: WOS*
36. [1.1] HOSSAIN, Md. Babul - SAWADA, Ayumi - NODA, Kaori - KAWASAKI, Michio. *Hydathode function and changes in contents of elements in eddo exposed to zinc in hydroponic solution. In PLANT PRODUCTION SCIENCE. ISSN 1343-943X, 2017, vol. 20, no. 4, pp. 423-433., Registrované v: WOS*
37. [1.1] IBRAHIM, Mohd Hafiz - KONG, Yap Chee - ZAIN, Nurul Amalina Mohd. *Effect of Cadmium and Copper Exposure on Growth, Secondary Metabolites and Antioxidant Activity in the Medicinal Plant Sambung Nyawa (Gynura procumbens (Lour.) Merr). In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 10, pp., Registrované v: WOS*
38. [1.1] IKARAOHA, C. I. - MBADIWE, N. C. - ANYANWU, C. J. - ODEKHIAN, J. - NWADIKE, C. N. - AMAH, H. C. *The Role of Blood Lead, Cadmium, Zinc and Copper in Development and Severity of Acne Vulgaris in a Nigerian Population. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2017, vol. 176, no. 2, pp. 251-257., Registrované v: WOS*
39. [1.1] INAMUDDIN - HUSSAIN, Sardar - MOHAMMAD, Ali - KHAN, Anish. *Zinc Selective Nano-Hybrid Cation Exchanger Carboxymethyl Cellulose Zr(IV) Tungstate: Sol-Gel Synthesis, Physicochemical Characterization, and Analytical Applications. In POLYMER COMPOSITES. ISSN 0272-8397, 2017, vol. 38, no. 10, pp. 2057-2066., Registrované v: WOS*
40. [1.1] JANKOWSKI, Wojciech - KUREK, Joanna - BARCZYNSKI, Piotr - HOFFMANN, Marcin. *Quantum-chemical, NMR, FT IR, and ESI MS studies of complexes of colchicine with Zn(II). In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 4, pp., Registrované v: WOS*
41. [1.1] KAVIANI, Elina - NIAZI, Ali - HEYDARIAN, Zohreh - MOGHADAM, Ali - GHASEMI-FASAEI, Reza - ABDOLLAHZADEH, Tayebe. *Phytoremediation of Pb-Contaminated Soil by Salicornia iranica: Key Physiological and Molecular Mechanisms Involved in Pb Detoxification. In CLEAN-SOIL AIR WATER. ISSN 1863-0650, 2017, vol. 45, no. 5, pp., Registrované v: WOS*
42. [1.1] KAVIANI, Elina - NIAZI, Ali - HEYDARIAN, Zohreh - MOGHADAM, Ali - GHASEMI-FASAEI, Reza - ABDOLLAHZADEH, Tayebe. *Phytoremediation of Pb-Contaminated Soil by Salicornia iranica: Key Physiological and Molecular Mechanisms Involved in Pb Detoxification. In CLEAN-SOIL AIR WATER. ISSN 1863-0650, 2017, vol. 45, no. 5, pp., Registrované v: WOS*
43. [1.1] KINTLOVA, Martina - BLAVET, Nicolas - CEGAN, Radim - HOBZA, Roman. *Transcriptome of barley under three different heavy metal stress reaction. In GENOMICS DATA. ISSN 2213-5960, 2017, vol. 13, no., pp. 15-17., Registrované v: WOS*
44. [1.1] KRYVORUCHKO, Igor S. *Zn-use efficiency for optimization of symbiotic nitrogen fixation in chickpea (Cicer arietinum L.). In TURKISH JOURNAL OF BOTANY. ISSN 1300-008X, 2017, vol. 41, no. 5, pp. 423-441., Registrované v: WOS*
45. [1.1] KUKLOVA, Margita - HNILICKOVA, Helena - HNILICKA, Frantisek - PIVKOVA, Ivica - KUKLA, Jan. *Toxic elements and energy accumulation in topsoil and plants of spruce ecosystems. In PLANT SOIL AND ENVIRONMENT. ISSN 1214-1178, 2017, vol. 63, no. 9, pp. 402-408., Registrované v: WOS*
46. [1.1] LIU, Dun-Yi - ZHANG, Wei - YAN, Peng - CHEN, Xin-Ping - ZHANG, Fu-Suo - ZOU, Chun-Qin. *Soil application of zinc fertilizer could achieve high yield and high grain zinc concentration in maize. In PLANT AND SOIL. ISSN 0032-079X, 2017, vol. 411, no. 1-2, pp. 47-55., Registrované v: WOS*
47. [1.1] LOPEZ-RAYO, Sandra - IMRAN, Ahmad - HANSEN, Hans Chr. Bruun - SCHJOERRING, Jan K. - MAGID, Jakob. *Layered Double Hydroxides: Potential Release-on-Demand Fertilizers for Plant Zinc Nutrition. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 40, pp. 8779-8789., Registrované v: WOS*
48. [1.1] LUCIANO, Avila-Juarez - IRINEO, Torres-Pacheco - ROSALIA VIRGINIA, Ocampo-Velazquez - ANGELICA FEREGRINO-PEREZ, Ana - CRUZ HERNANDEZ, Andres - RAMON GERARDO, Guevara-Gonzalez. *Integrating Plant Nutrients and Elicitors for Production of Secondary Metabolites, Sustainable Crop Production and Human Health: A Review. In INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY. ISSN 1560-8530, 2017, vol. 19, no. 3, pp. 391-402., Registrované v: WOS*
49. [1.1] MA, Jie - ZHANG, Xiuqing - WANG, Lijun. *Synergistic effects between [Si-hemicellulose matrix] ligands and Zn ions in inhibiting Cd ion uptake in rice (Oryza sativa) cells. In PLANTA. ISSN 0032-0935, 2017, vol. 245, no. 5, pp. 965-976., Registrované v: WOS*
50. [1.1] MAJDOUB, N. - REZGUI, M. - BEN KAAB, S. - BEN KAAB, L. B. *Compatible solutes content, enzymatic and non-enzymatic antioxidant activities of fennel (Foeniculum vulgare L.) in*

- response to Zn-induced oxidative damage. In *AGROCHIMICA*. ISSN 0002-1857, 2017, vol. 61, no. 3, pp. 269-285., Registrované v: WOS
51. [1.1] MARQUES, M. C. - NASCIMENTO, C. W. A. - DA SILVA, A. J. - DA SILVA GOUVEIA-NETO, A. Tolerance of an energy crop (*Jatropha curcas* L.) to zinc and lead assessed by chlorophyll fluorescence and enzyme activity. In *SOUTH AFRICAN JOURNAL OF BOTANY*. ISSN 0254-6299, 2017, vol. 112, no., pp. 275-282., Registrované v: WOS
52. [1.1] MEVADA, Adwait - PANDYA, N. Y. - GAJJAR, P. N. Electronic properties of MgZnPt2 at extremely high temperatures and pressures. In *CHINESE JOURNAL OF PHYSICS*. ISSN 0577-9073, 2017, vol. 55, no. 3, pp. 1011-1017., Registrované v: WOS
53. [1.1] MIKHAILOVA, Elena A. - HAGAN, Donald - SHARP, Julia - RITTER, Brian - STIGLITZ, Roxanne - MEALING, Veeander - ALLERTON, Tristan - BURDETTE, Kylie - SOLOMONS, Allen - SCHLAUTMAN, Mark A. Landscape, Soil, and Plant Analysis of Japanese Stiltgrass (*Microstegium vimineum*) Invasion in the Piedmont Region, SC. In *COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS*. ISSN 0010-3624, 2017, vol. 48, no. 9, pp. 1068-1077., Registrované v: WOS
54. [1.1] MOYNIER, Frederic - VANCE, Derek - FUJII, Toshiyuki - SAVAGE, Paul. The Isotope Geochemistry of Zinc and Copper. In *NON-TRADITIONAL STABLE ISOTOPES*. ISSN 1529-6466, 2017, vol. 82, no., pp. 543-600., Registrované v: WOS
55. [1.1] NANDA, Amrit K. - PUJOL, Vincent - WISSUWA, Matthias. Patterns of stress response and tolerance based on transcriptome profiling of rice crown tissue under zinc deficiency. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2017, vol. 68, no. 7, pp. 1715-1729., Registrované v: WOS
56. [1.1] NASIRI-SAVADKOOHI, S. - SAEIDI-SAR, S. - ABBASPOUR, H. - DEHPOUR, A. A. PROTECTIVE ROLE OF EXOGENOUS NITRIC OXIDE AGAINST ZINC TOXICITY IN *PLANTAGO MAJOR* L. In *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*. ISSN 1589-1623, 2017, vol. 15, no. 4, pp. 511-524., Registrované v: WOS
57. [1.1] NAYAK, Pranati - RAM, Shidharth Sankar - KALIDASS, C. PIXE-based detection of elemental accumulation during direct organogenesis in *Blepharispermum subsessile* DC.: An endangered medicinal plant of Odisha, India. In *X-RAY SPECTROMETRY*. ISSN 0049-8246, 2017, vol. 46, no. 6, pp. 529-536., Registrované v: WOS
58. [1.1] NEILSEN, G. H. - NEILSEN, D. - FORGE, T. Environmental Limiting Factors for Cherry Production. In *CHERRIES: BOTANY, PRODUCTION AND USES*, 2017, vol., no., pp. 189-222., Registrované v: WOS
59. [1.1] NUNES, Matheus H. - DAVEY, Matthew P. - COOMES, David A. On the challenges of using field spectroscopy to measure the impact of soil type on leaf traits. In *BIOGEOSCIENCES*. ISSN 1726-4170, 2017, vol. 14, no. 13, pp. 3371-3385., Registrované v: WOS
60. [1.1] PATACO, Ines Maria - LIDON, Fernando Cebola - RAMOS, Ines - OLIVEIRA, Karliana - GUERRA, Mauro - PESSOA, Maria Fernanda - CARVALHO, Maria Luisa - RAMALHO, Jose Cochicho - LEITAO, Antonio Eduardo - SANTOS, Jose Paulo - CAMPOS, Paula Scotti - SILVA, Maria Manuela - PAIS, Isabel P. - REBOREDO, Fernando Henrique. Biofortification of durum wheat (*Triticum turgidum* L. ssp *durum* (Desf.) Husnot) grains with nutrients. In *JOURNAL OF PLANT INTERACTIONS*. ISSN 1742-9145, 2017, vol. 12, no. 1, pp. 39-50., Registrované v: WOS
61. [1.1] PEDRO SIDA-ARREOLA, Juan - SANCHEZ, Esteban - LEOPOLDINA OJEDA-BARRIOS, Damaris - DOLORES AVILA-QUEZADA, Graciela - ANTONIA FLORES-CORDOVA, Maria - MARQUEZ-QUIROZ, Cesar - PRECIADO-RANGEL, Pablo. Can biofortification of zinc improve the antioxidant capacity and nutritional quality of beans? In *EMIRATES JOURNAL OF FOOD AND AGRICULTURE*. ISSN 2079-052X, 2017, vol. 29, no. 3, pp. 237-241., Registrované v: WOS
62. [1.1] PEREIRA, Alezania Silva - CORTEZ, Priscila Andressa - DE ALMEIDA, Alex-Alan Furtado - PRASAD, Majeti Narashima Vara - COSTA FRANCA, Marcel Giovanni - DA CUNHA, Maura - DE JESUS, Raildo Mota - OLIVEIRA MANGABEIRA, Pedro Antonio. Morphology, ultrastructure, and element uptake in *Calophyllum brasiliense* Cambess. (*Calophyllaceae* J. Agardh) seedlings under cadmium exposure. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 18, pp. 15576-15588., Registrované v: WOS
63. [1.1] POBLACIONES, Maria J. - DAMON, Paul - RENGEL, Zed. Foliar zinc biofortification effects in *Lolium rigidum* and *Trifolium subterraneum* grown in cadmium-contaminated soil. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 9, pp., Registrované v: WOS
64. [1.1] REYNOLDS, R. Jason B. - CAPPA, Jennifer J. - PILON-SMITS, Elizabeth A. H. Evolutionary Aspects of Plant Selenium Accumulation. In *SELENIUM IN PLANTS: MOLECULAR, PHYSIOLOGICAL, ECOLOGICAL AND EVOLUTIONARY ASPECTS*. ISSN 1572-5561, 2017, vol. 11, no., pp. 189-205., Registrované v: WOS
65. [1.1] RIZZOLO, Joana A. - BARBOSA, Cybelli G. G. - BORILLO, Guilherme C. - GODOI, Ana F. L. - SOUZA, Rodrigo A. F. - ANDREOLI, Rita V. - MANZI, Antonio O. - SA, Marta O. -

- ALVES, Eliane G. - POEHLKER, Christopher - ANGELIS, Isabella H. - DITAS, Florian - SATURNO, Jorge - MORAN-ZULOAGA, Daniel - RIZZO, Luciana V. - ROSARIO, Nilton E. - PAULIQUEVIS, Theotonio - SANTOS, Rosa M. N. - YAMAMOTO, Carlos I. - ANDREAE, Meinrat O. - ARTAXO, Paulo - TAYLOR, Philip E. - GODOI, Ricardo H. M. Soluble iron nutrients in Saharan dust over the central Amazon rainforest. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2017, vol. 17, no. 4, pp. 2673-2687., Registrované v: WOS
66. [1.1] SAINI, Shalini - BHARATI, Kavita - SHAHA, Chandrima - MUKHOPADHYAY, Chinmay K. Zinc depletion promotes apoptosis-like death in drug-sensitive and antimony-resistance *Leishmania donovani*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
67. [1.1] SAMREEN, Tayyeba - HUMAIRA - SHAH, Hamid Ullah - ULLAH, Saleem - JAVID, Muhammad. Zinc effect on growth rate, chlorophyll, protein and mineral contents of hydroponically grown mungbeans plant (*Vigna radiata*). In *ARABIAN JOURNAL OF CHEMISTRY*. ISSN 1878-5352, 2017, vol. 10, no., pp. S1802-S1807., Registrované v: WOS
68. [1.1] SATO, Yasushi - GOTO, Shinpei - TERAOKA, Shoya - TAKAGAKI, Katsuya - TAKEHARA, Akinari - SANO, Sakae - SAKAKIBARA, Masayuki. Establishment of an Aseptic Culture System and Analysis of the Effective Growth Conditions for *Eleocharis acicularis* Ramets for Use in Phytoremediation. In *ENVIRONMENTS*. ISSN 2076-3298, 2017, vol. 4, no. 2, pp., Registrované v: WOS
69. [1.1] SCHEID, Douglas L. - MARCO, Rudinei D. - GROLLI, Andre L. - DA SILVA, Rodrigo F. - DA ROS, Clovis O. - ANDREAZZA, Robson. Growth, tolerance and zinc accumulation in *Senna multijuga* and *Erythrina crista-galli* seedlings. In *REVISTA BRASILEIRA DE ENGENHARIA AGRICOLA E AMBIENTAL*. ISSN 1807-1929, 2017, vol. 21, no. 7, pp. 465-470., Registrované v: WOS
70. [1.1] SEEPRASERT, Prapamon - ANURAKPONGSATORN, Patana - LAOHAROJANAPHAND, Sirinart - BUSAMONGKOL, Arporn. Instrumental neutron activation analysis to determine inorganic elements in paddy soil and rice and evaluate bioconcentration factors in rice. In *Agriculture and Natural Resources*. ISSN 2452316X, 2017-06-01, 51, 3, pp. 154-157., Registrované v: WOS
71. [1.1] SHEN, Zhangjun - WANG, Yupeng - CHEN, Yansong - ZHANG, Zhen. Transfer of heavy metals from the polluted rhizosphere soil to *Celosia argentea* L. in copper mine tailings. In *HORTICULTURE ENVIRONMENT AND BIOTECHNOLOGY*. ISSN 2211-3452, 2017, vol. 58, no. 1, pp. 93-100., Registrované v: WOS
72. [1.1] SHRI, P. Usha - PILLAY, Vasantha. Excess of soil zinc interferes with uptake of other micro and macro nutrients in *Sorghum bicolor* (L.) plants. In *Indian Journal of Plant Physiology*. ISSN 00195502, 2017-09-01, 22, 3, pp. 304-308., Registrované v: WOS
73. [1.1] SHTANGEEVA, Irina - TESFALIDET, Solomon - LOVGREN, Lars. Comparison of nutrient concentrations in leaves of five plants. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2017, vol. 40, no. 2, pp. 239-247., Registrované v: WOS
74. [1.1] SINGH, Akanksha - SHARMA, V. K. - DIKSHIT, H. K. - SINGH, D. - ASKI, M. - PRAKASH, Prapti - KAUSHIK, S. C. - SINGH, Gyanendra - KUMAR, Shiv - SARKER, A. Microsatellite marker-based genetic diversity analysis of elite lentil lines differing in grain iron and zinc concentration. In *JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0971-7811, 2017, vol. 26, no. 2, pp. 199-207., Registrované v: WOS
75. [1.1] SONG, Yu - JIN, Liang - WANG, Xiaojuan. Cadmium absorption and transportation pathways in plants. In *INTERNATIONAL JOURNAL OF PHYTOREMEDIATION*. ISSN 1522-6514, 2017, vol. 19, no. 2, pp. 133-141., Registrované v: WOS
76. [1.1] STEIN, Ricardo J. - HOERETH, Stephan - DE MELO, J. Romario F. - SYLLWASSCHY, Lara - LEE, Gwonjin - GARBIN, Mario L. - CLEMENS, Stephan - KRAEMER, Ute. Relationships between soil and leaf mineral composition are element-specific, environment-dependent and geographically structured in the emerging model *Arabidopsis halleri*. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 3, pp. 1274-1286., Registrované v: WOS
77. [1.1] SUZUI, Nobuo - YIN, Yong-Gen - ISHII, Satomi - SEKIMOTO, Hitoshi - KAWACHI, Naoki. Visualization of zinc dynamics in intact plants using positron imaging of commercially available Zn-65. In *PLANT METHODS*. ISSN 1746-4811, 2017, vol. 13, no., pp., Registrované v: WOS
78. [1.1] TAGHIZADEH, L. - MONTAZEROZOHORI, M. - MASOUDIASH, A. - JOOHARI, S. - WHITE, J. M. New tetrahedral zinc halide Schiff base complexes: Synthesis, crystal structure, theoretical, 3D Hirshfeld surface analyses, antimicrobial and thermal studies. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2017, vol. 77, no., pp. 229-244., Registrované v: WOS
79. [1.1] TIAN, Xiaoxia - LI, Li - MAO, Peichun - MENG, Lin - GUO, Qiang - LI, Shanshan. Tolerance and physiological responses of *Iris lactea* var. *chinensis* germplasm under zinc stress.

- In Chinese Journal of Applied and Environmental Biology*. ISSN 1006687X, 2017-01-01, 23, 1, pp. 67-76., Registrované v: WOS
80. [1.1] TIAN, Zhengfang - YAO, Xianxian - MA, Kexin - NIU, Xingxing - GROTHE, Julia - XU, Qingni - LIU, Liansheng - KASKEL, Stefan - ZHU, Yufang. Metal-Organic Framework/Graphene Quantum Dot Nanoparticles Used for Synergistic Chemo-and Photothermal Therapy. In *ACS OMEGA*. ISSN 2470-1343, 2017, vol. 2, no. 3, pp. 1249-1258., Registrované v: WOS
81. [1.1] UMANA, Maria Natalia - ZHANG, Caicai - CAO, Min - LIN, Luxiang - SWENSON, Nathan G. A core-transient framework for trait-based community ecology: an example from a tropical tree seedling community. In *ECOLOGY LETTERS*. ISSN 1461-023X, 2017, vol. 20, no. 5, pp. 619-628., Registrované v: WOS
82. [1.1] UMANA, Maria Natalia - ZHANG, Caicai - CAO, Min - LIN, Luxiang - SWENSON, Nathan G. A core-transient framework for trait-based community ecology: an example from a tropical tree seedling community. In *ECOLOGY LETTERS*. ISSN 1461-023X, 2017, vol. 20, no. 5, pp. 619-628., Registrované v: WOS
83. [1.1] VERA-ESTRELLA, Rosario - GMEZ-MENDEZ, Maria F. - AMEZCUA-ROMERO, Julio C. - BARKLA, Bronwyn J. - ROSAS-SANTIAGO, Paul - PANTOJA, Omar. Cadmium and zinc activate adaptive mechanisms in *Nicotiana tabacum* similar to those observed in metal tolerant plants. In *PLANTA*. ISSN 0032-0935, 2017, vol. 246, no. 3, pp. 433-451., Registrované v: WOS
84. [1.1] WANG, Dongdong - ZHOU, Jiajia - SHI, Ruohong - WU, Huihui - CHEN, Ruhui - DUAN, Beichen - XIA, Guoliang - XU, Pengping - WANG, Hui - ZHOU, Shu - WANG, Chengming - WANG, Haibao - GUO, Zhen - CHEN, Qianwang. Biodegradable Core-shell Dual-Metal-Organic-Frameworks Nanotheranostic Agent for Multiple Imaging Guided Combination Cancer Therapy. In *THERANOSTICS*. ISSN 1838-7640, 2017, vol. 7, no. 18, pp. 4605-4617., Registrované v: WOS
85. [1.1] WEREMCZUK, Aleksandra - RUSZCZYNSKA, Anna - BULSKA, Ewa - ANTOSIEWICZ, Danuta Maria. NO-Dependent programmed cell death is involved in the formation of Zn-related lesions in tobacco leaves. In *METALLOMICS*. ISSN 1756-5901, 2017, vol. 9, no. 7, pp. 924-935., Registrované v: WOS
86. [1.1] WOLF, Mariane - BARETTA, Dilmar - BECEGATO, Valter A. - ALMEIDA, Vitor de C. - PAULINO, Alexandre T. Copper/Zinc Bioaccumulation and the Effect of Phytotoxicity on the Growth of Lettuce (*Lactuca sativa* L.) in Non-contaminated, Metal-Contaminated and Swine Manure-Enriched Soils. In *WATER AIR AND SOIL POLLUTION*. ISSN 0049-6979, 2017, vol. 228, no. 4, pp., Registrované v: WOS
87. [1.1] ZANETTI, D. - MENEZES, A. C. B. - SILVA, F. A. S. - COSTA E SILVA, L. F. - ROTTA, P. P. - DETMANN, E. - ENGLE, T. E. - VALADARES FILHO, S. C. In situ and in vitro estimation of mineral release from common feedstuffs fed to cattle. In *JOURNAL OF AGRICULTURAL SCIENCE*. ISSN 0021-8596, 2017, vol. 155, no. 7, pp. 1160-1173., Registrované v: WOS
88. [1.1] ZHOU, Xia - PENG, Jun-Ling - WEN, Cai-Ying - LIU, Ze-Yu - WANG, Xing-Hao - WU, Jian-Zhong - OU, Yong-Cong. Tuning the structure and Zn(II) sensing of lanthanide complexes with two phenylimidazophenanthrolines by acetonitrile hydrolysis. In *CRYSTENGCOMM*. ISSN 1466-8033, 2017, vol. 19, no. 43, pp. 6533-6539., Registrované v: WOS
89. [1.2] AJEESH KRISHNA, T. P. - ANTONY CEASAR, S. - MAHARAJAN, T. - RAMAKRISHNAN, M. - DURAIPANDIYAN, V. - AL-DHABI, N. A. - IGNACIMUTHU, S. Improving the zinc-use efficiency in plants: A review. In *Sabrao Journal of Breeding and Genetics*. ISSN 10297073, 2017-09-01, 49, 3, pp. 211-230., Registrované v: SCOPUS
90. [1.2] CHOJNACKA, Katarzyna - MICHALAK, Izabela - SAEID, Agnieszka - GODLEWSKA, Katarzyna - TUHY, Łukasz - SAMORAJ, Mateusz - DMYTRYK, Agnieszka - WIŚNIEWSKA, Aneta. Trace Elements a Threat or Benefit? In *Recent Advances in Trace Elements*, 2017-12-18, pp. 545-567., Registrované v: SCOPUS
91. [1.2] DALY, Darren Heenan - VELIVELLI, Siva L.S. - PRESTWICH, Barbara Doyle. The role of soil microbes in crop biofortification. In *Agriculturally Important Microbes for Sustainable Agriculture*, 2017-09-18, 1, pp. 333-356., Registrované v: SCOPUS
92. [1.2] DAS, Arpita - LAHA, Samrat - MANDAL, Sanchita - PAL, Sukanta - SIDDIQUI, Mohammed Wasim. Preharvest Biofortification of Horticultural Crops. In *Preharvest Modulation of Postharvest Fruit and Vegetable Quality*, 2017-01-01, pp. 381-434., Registrované v: SCOPUS
93. [1.2] EL-DAHSHOURI, Mohamad Farouk - EL-FOULY, M. M. - KHALIFA, R. Kh M. - EL-GHANY, H. M. Abd. Effect of zinc foliar application at different physiological growth stages on yield and quality of wheat under sandy soil conditions. In *Agricultural Engineering International: CIGR Journal*, 2017-01-01, 2017, pp. 193-200., Registrované v: SCOPUS
94. [1.2] GRAMSS, Gerhard - VOIGT, Klaus Dieter. Seed crops reduce quality losses caused by soils of extreme mineral spans. In *Agricultural Research Updates*, 2017-01-01, 21, pp. 1-56., Registrované v: SCOPUS
95. [1.2] MICHALAK, Izabela - SAEID, Agnieszka - CHOJNACKA, Katarzyna - GRAMZA,

- Mateusz. Trace Elements as Fertilizer Micronutrients. In *Recent Advances in Trace Elements*, 2017-12-18, pp. 299-318., Registrované v: SCOPUS
96. [1.2] MITRA, Gyanendranath. Essential plant nutrients and recent concepts about their uptake. In *Essential Plant Nutrients: Uptake, Use Efficiency, and Management*, 2017-08-07, pp. 3-36., Registrované v: SCOPUS
97. [1.2] SATHIYADASH, Kullaiyan - RAJENDRAN, Kuppu - KARTHIKEYAN, Veluswamy - MUTHUKUMAR, Thangavelu. Modulation of plant micronutrient uptake by arbuscular mycorrhizal fungi. In *Probiotics and Plant Health*, 2017-07-29, pp. 337-352., Registrované v: SCOPUS
98. [1.2] SHE, Xu - WANG, Zhaohui - MA, Xiaolong - CAO, Hanbing - HE, Hongxia - WANG, Sen. Variation of winter wheat grain zinc concentration and its relation to major soil characteristics in drylands of the loess plateau. In *Scientia Agricultura Sinica*. ISSN 05781752, 2017-11-16, 50, 22, pp. 4338-4349., Registrované v: SCOPUS
99. [1.2] UL HASSAN, Zaid - ALI, Shafaqat - RIZWAN, Muhammad - HUSSAIN, Afzal - AKBAR, Zaheer - RASOOL, Nasir - ABBAS, Farahat. Role of zinc in alleviating heavy metal stress. In *Essential Plant Nutrients: Uptake, Use Efficiency, and Management*, 2017-08-07, pp. 351-366., Registrované v: SCOPUS
100. [1.2] VAISHNAV, Anukool - VARMA, Ajit - TUTEJA, Narendra - CHOUDHARY, Devendra Kumar. PGPR-mediated amelioration of crops under salt stress. In *Plant-Microbe Interaction: An Approach to Sustainable Agriculture*, 2017-01-01, pp. 205-226., Registrované v: SCOPUS
101. [1.2] ZHANG, Xiaoli - ZHAI, Feifei - LI, Wei - LIU, Junxiang - QIAN, Yongqiang - HAN, Lei - SUN, Zhenyuan. Characteristics of Cadmium Absorption and Distribution in 27 Willow Clones. In *Linye Kexue/Scientia Silvae Sinicae*. ISSN 10017488, 2017-04-01, 53, 4, pp. 9-17., Registrované v: SCOPUS
- ADCA102 BROWN, J.L. - KOSSACZKA, Z. - JIANG, B. - BUSSEY, H.A. A mutational analysis of killer toxin resistance in *Saccharomyces cerevisiae* identifies new genes involved in cell wall (1-6)-beta-glucan synthesis. In *Genetics*, 1993, vol.133, p. 837-849. ISSN 0016-6731.
Citácie:
1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
2. [1.1] BELDA, Ignacio - RUIZ, Javier - ALONSO, Alejandro - MARQUINA, Domingo - SANTOS, Antonio. The Biology of *Pichia membranifaciens* Killer Toxins. In *TOXINS*. ISSN 2072-6651, 2017, vol. 9, no. 4, pp., Registrované v: WOS
- ADCA103 BRÜLL, L.P. - HEERMA, W. - THOMAS-OATES, J.E. - HAVERKAMP, J. - KOVÁČIK, Vladimír - 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. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences*, 2017-11-20, pp. 225-267., Registrované v: SCOPUS
- ADCA104 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] DILLON, Francisco M. - CHLUDIL, Hugo D. - ZAVALA, Jorge A. Solar UV-B radiation modulates chemical defenses against *Anticarsia gemmatilis* larvae in leaves of field-grown soybean. In *PHYTOCHEMISTRY*. ISSN 0031-9422, 2017, vol. 141, no., pp. 27-36., Registrované v: WOS
2. [1.1] HONG, Pengyu - SUN, Hui - SHA, Long - PU, Yi - KHATRI, Kshitij - YU, Xiang - TANG, Yang - LIN, Cheng. GlycoDeNovo an Efficient Algorithm for Accurate de novo Glycan Topology Reconstruction from Tandem Mass Spectra. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2017, vol. 28, no. 11, pp. 2288-2301., Registrované v: WOS
3. [1.1] OURSEL, Stephanie - CHOLET, Sophie - JUNOT, Christophe - FENAILLE, Francois. Comparative analysis of native and permethylated human milk oligosaccharides by liquid chromatography coupled to high resolution mass spectrometry. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2017, vol. 1071, no., pp. 49-57., Registrované v: WOS
4. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences*, 2017-

- ADCA105 11-20, pp. 225-267., Registrované v: SCOPUS
 BUCOVÁ, Mária - SUCHANKOVÁ, Magda - DZURILLA, Martin - VRLÍK, Mojmír - NOVOSADOVÁ, Helena - TEDLOVÁ, Eva - URBAN, Štefan - HORNÁKOVÁ, Edit - ŠELIGOVÁ, Marianna - DURMANOVÁ, Vladimíra - PENZ, Peter - JAVOR, Juraj - PAULOVICHOVÁ, 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. (3.263 - IF2011). (2012 - Current Contents). ISSN 0962-9351.
 Citácie:
 1. [1.1] CROTEAU-CHONKA, Damien C. - QIU, Weiliang - MARTINEZ, Fernando D. - STRUNK, Robert C. - LEMANSKE, Robert F. - LIU, Andrew H. - GILLILAND, Frank D. - MILLSTEIN, Joshua - GAUDERMAN, W. James - OBER, Carole - KRISHNAN, Jerry A. - WHITE, Steven R. - NAURECKAS, Edward T. - NICOLAE, Dan L. - BARNES, Kathleen C. - LONDON, Stephanie J. - BARRAZA-VILLARREAL, Albino - CAREYL, Vincent J. - WEISS, Scott T. - RABY, Benjamin A. *Gene Expression Profiling in Blood Provides Reproducible Molecular Insights into Asthma Control*. In *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*. ISSN 1073-449X, 2017, vol. 195, no. 2, pp. 179-188., Registrované v: WOS
 2. [1.1] PROBOSZCZ, Malgorzata - PAPLINSKA-GORYCA, Magdalena - NEJMAN-GRYZ, Patrycja - GORSKA, Katarzyna - KRENKE, Rafal. *A comparative study of sTREM-1, IL-6 and IL-13 concentration in bronchoalveolar lavage fluid in asthma and COPD: A preliminary study*. In *ADVANCES IN CLINICAL AND EXPERIMENTAL MEDICINE*. ISSN 1899-5276, 2017, vol. 26, no. 2, pp. 231-236., Registrované v: WOS
 3. [1.2] HU, Daiju. *Role of Anti-inflammatory Cytokines IL-35 and IL-37 in Asthma*. In *Inflammation*. ISSN 03603997, 2017-04-01, 40, 2, pp. 697-707., Registrované v: SCOPUS
 4. [1.2] TESSIER, Laurence - CÔTÉ, Olivier - CLARK, Mary Ellen - VIEL, Laurent - DIAZ-MÉNDEZ, Andrés - ANDERS, Simon - BIENZLE, Dorothee. *Impaired response of the bronchial epithelium to inflammation characterizes severe equine asthma*. In *BMC Genomics*, 2017-09-08, 18, 1, pp., Registrované v: SCOPUS
- ADCA106 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. (1.971 - IF2013). (2014 - Current Contents). ISSN 0028-1042. Dostupné na internete:
http://download.springer.com/static/pdf/425/art%253A10.1007%252Fs00114-014-1205-z.pdf?auth66=1408610030_169b9af497196966fea139a348c11bf0&ext=.pdf (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] DERA KSHAN, Fatemeh Khadivi - DARVISHI, Farshad - DEZFULIAN, Mehrouz - MADZAK, Catherine. *Expression and Characterization of Glucose Oxidase from Aspergillus niger in Yarrowia lipolytica*. In *MOLECULAR BIOTECHNOLOGY*. ISSN 1073-6085, 2017, vol. 59, no. 8, pp. 307-314., Registrované v: WOS
 2. [1.1] LOPEZ-URIBE, Margarita M. - FITZGERALD, Andrea - SIMONE-FINSTROM, Michael. *Inducible versus constitutive social immunity: examining effects of colony infection on glucose oxidase and defensin-1 production in honeybees*. In *ROYAL SOCIETY OPEN SCIENCE*. ISSN 2054-5703, 2017, vol. 4, no. 5, pp., Registrované v: WOS
 3. [1.1] SAGONA, S. - TURCHI, B. - FRATINI, F. - GIUSTI, M. - TORRACCA, B. - BIONDI, C. - NUVOLONI, R. - CERRI, D. - FELICIOLO, A. *Antimicrobial activity of fifteen Italian honeys against Paenibacillus larvae ATCC 9545*. In *JOURNAL OF THE HELLENIC VETERINARY MEDICAL SOCIETY*. ISSN 1792-2720, 2017, vol. 68, no. 4, pp. 547-556., Registrované v: WOS
 4. [1.2] BURLEW, Rusty. *Honey's magical power: Four ways to slay microbes*. In *American Bee Journal*. ISSN 00027626, 2017-12-01, 157, 12, pp. 1325-1327., Registrované v: SCOPUS
- ADCA107 BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - LACÍK, Igor - HLOUŠKOVÁ, Gabriela - GEMEINER, Peter - PÄTOPRSTÝ, 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.
 Citácie:
 1. [1.2] SAINI, P.- SAREEN, D. *An Overview on the Enhancement of Enantioselectivity and Stability of Microbial Epoxide Hydrolases*. (2017) *Molecular Biotechnology*, 59 (2-3), p. 98-116., Registrované v: Scopus
- ADCA108 BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter - LACÍK, Igor -

HLOUŠKOVÁ, Gabriela - MARISON, I.W. *Nocardia tartaricans* cells immobilized in sodium alginate-cellulose sulfate-poly (methylene-co-guanidine) capsules: mechanical resistance and operational stability. In *Journal of Chemical Technology and Biotechnology*, 2006, vol. 81, no. 4, p. 500 - 504. (0.981 - IF2005). (2006 - Current Contents). ISSN 0268-2575.

Citácie:

1. [1.1] HRONSKA, H. - MICHALIKOVA, S. - ROSENBERG, M. *Microbial production of specialty C4 dicarboxylic acids from maleic anhydride*. In *JOURNAL OF FOOD AND NUTRITION RESEARCH*. ISSN 1336-8672, 2017, vol. 56, no. 3, p. 219-231., Registrované v: WOS

ADCA109

BUČKO, Marek - SCHENKMAYEROVÁ, Andrea - GEMEINER, Peter - VIKARTOVSKÁ, Alica, Welwardová - MIHOVILOVIČ, Marko D. - LACÍK, Igor. Continuous testing system for Baeyer-Villiger biooxidation using recombinant *Escherichia coli* expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. In *Enzyme and Microbial Technology*, 2011, vol. 49, p. 284 - 288. (2.287 - IF2010). (2011 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] KADISCH, M. - WILLRODT, C. - HILLEN, M. - BUHLER, B. - SCHMID, A. *Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts*. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, AUG 2017, vol. 12, no. 8., Registrované v: WOS

2. [1.1] LERCHNER, J. - DAVID, K.A. - UNGER, F.T. - LEMKE, K. - FORSTER, T. - MERTENS, F. *Continuous monitoring of drug effects on complex biological samples by segmented flow chip calorimetry*. In *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*. ISSN 1388-6150, FEB 2017, vol. 127, no. 2, p. 1307-1317., Registrované v: WOS

ADCA110

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. (3.376 - IF2015). (2016 - Current Contents). ISSN 0175-7598.

Citácie:

1. [1.1] ANGELASTRO, Antonio - DAWSON, William M. - LUK, Louis Y. P. - ALLEMANN, Rudolf K. *A Versatile Disulfide-Driven Recycling System for NADP(+) with High Cofactor Turnover Number*. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 2, pp. 1025-1029., Registrované v: WOS

2. [1.1] BISOGNO, Fabricio R. - LOPEZ-VIDAL, Martin G. - DE GONZALO, Gonzalo. *Organocatalysis and Biocatalysis Hand in Hand: Combining Catalysts in One-Pot Procedures*. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 12, pp. 2026-2049., Registrované v: WOS

3. [1.1] DE GONZALO, Gonzalo - FURST, Maximilian J. L. J. - FRAAIJE, Marco W. *Polycyclic Ketone Monooxygenase (PockeMO): A Robust Biocatalyst for the Synthesis of Optically Active Sulfoxides*. In *CATALYSTS*. ISSN 2073-4344, 2017, vol. 7, no. 10, pp., Registrované v: WOS

4. [1.1] DE SOUZA, Rodrigo O. M. A. - MIRANDA, Leandro S. M. - BORNSCHEUER, Uwe T. *A Retrosynthesis Approach for Biocatalysis in Organic Synthesis*. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 50, pp. 12040-12063., Registrované v: WOS

5. [1.1] HUANG, Lei - ROMERO, Elvira - RESSMANN, Anna K. - RUDROFF, Florian - HOLLMANN, Frank - FRAAIJE, Marco W. - KARA, Selin. *Nicotinamide Adenine Dinucleotide-Dependent Redox-Neutral Convergent Cascade for Lactonizations with Type II Flavin-Containing Monooxygenase*. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 12, pp. 2142-2148., Registrované v: WOS

6. [1.1] KUMAR, Hemant - FRAAIJE, Marco W. *Conversion of Furans by Baeyer-Villiger Monooxygenases*. In *CATALYSTS*. ISSN 2073-4344, 2017, vol. 7, no. 6, pp., Registrované v: WOS

7. [1.1] LEWKOWICZ, Elizabeth S. - IRIBARREN, Adolfo M. *Whole Cell Biocatalysts for the Preparation of Nucleosides and their Derivatives*. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6851-6878., Registrované v: WOS

8. [1.1] MTHETHWA, Katlego Siphamandla - KASSIER, Karin - ENGEL, Jennifer - KARA, Selin - SMIT, Martha Sophia - OPPERMAN, Diederik Johannes. *Fungal BVMOs as alternatives to cyclohexanone monooxygenase*. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 106, no., pp. 11-17., Registrované v: WOS

9. [1.1] MUSUMECI, Matias A. - LOZADA, Mariana - RIAL, Daniela V. - MAC CORMACK, Walter P. - JANSSEN, Janet K. - SJOLING, Sara - CARROLL, JoLynn - DIONISI, Hebe M. *Prospecting Biotechnologically-Relevant Monooxygenases from Cold Sediment Metagenomes: An In Silico Approach*. In *MARINE DRUGS*. ISSN 1660-3397, 2017, vol. 15, no. 4, pp., Registrované v: WOS

10. [1.1] QUOC-THAI NGUYEN - MATTEVI, Andrea - FRAAIJE, Marco W. *EXPANDING THE REPERTOIRE OF FLAVOENZYME-BASED BIOCATALYSIS*. In *FUTURE DIRECTIONS IN BIOCATALYSIS, 2ND EDITION*, 2017, vol., no., pp. 119-133., Registrované v: WOS

11. [1.1] WANG, Jian-bo - LI, Guangyue - REETZ, Manfred T. Enzymatic site-selectivity enabled by structure-guided directed evolution. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 28, pp. 3916-3928., Registrované v: WOS
12. [1.1] ZUREK, Jiri - SVOBODOVA, Eva - STURALA, Jiri - DVORAKOVA, Hana - SVOBODA, Jiri - CIBULKA, Radek. Chiral ethylene-bridged flavinium salts: the stereoselectivity of flavin-10a-hydroperoxide formation and the effect of substitution on the photochemical properties. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2017, vol. 28, no. 12, pp. 1780-1791., Registrované v: WOS
- ADCA111 BUČKOVÁ, M. - LABUDA, J. - ŠANDULA, Jozef - KRIŽKOVÁ, L. - ŠTĚPÁNEK, I. - ĎURAČKOVÁ, Z. Detection of damage to DNA and antioxidative activity of yeast polysaccharides at the DNA-modified screen-printed electrode. In *Talanta*, 2002, vol. 56, p. 939-947.
- Citácie:
1. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENTKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
2. [1.1] UZUNBOY, Seda - CEKIC, Sema Demirci - EKSIN, Ece - ERDEM, Arzum - APAK, Resat. CUPRAC colorimetric and electroanalytical methods determining antioxidant activity based on prevention of oxidative DNA damage. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 518, no., pp. 69-77., Registrované v: WOS
- ADCA112 BYSTRICKÝ, Peter - MACHOVÁ, Eva - KOLAROVA, Nadežda. Effect of gluco-monosaccharides and different conditions on digestion of hyaluronan by testicular hyaluronidase. In *General Physiology and Biophysics*, 2002, vol. 21, p. 463-469. (0.932 - IF2001). (2002 - Current Contents). ISSN 0231-5882.
- Citácie:
1. [1.2] TAO, Lei - SONG, Fei - XU, Naiyu - LI, Duxin - LINHARDT, Robert J. - ZHANG, Zhenqing. New insights into the action of bacterial chondroitinase AC I and hyaluronidase on hyaluronic acid. In *Carbohydrate Polymers*. ISSN 01448617, 2017-02-20, 158, pp. 85-92., Registrované v: SCOPUS
- ADCA113 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.
- Citácie:
1. [1.1] MATHEW, Basil - OLLI, Sudar - GURU, Ankeeta - NAGARAJ, Ramakrishnan. Chimeric analogs of human beta-defensin 1 and theta-defensin disrupt pre-established bacterial biofilms. In *BIOORGANIC & MEDICINAL CHEMISTRY LETTERS*. ISSN 0960-894X, 2017, vol. 27, no. 15, pp. 3264-3266., Registrované v: WOS
2. [1.1] VAITHILINGAM, Vijayaganapathy - STEINKJER, Bjorg - RYAN, Liv - LARSSON, Rolf - TUCH, Bernard Edward - OBERHOLZER, Jose - ROKSTAD, Anne Mari. In Vitro and In Vivo Biocompatibility Evaluation of Polyallylamine and Macromolecular Heparin Conjugates Modified Alginate Microbeads. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.2] EL-SHERBINY, Ibrahim M. - ALI, Isra H. Biopolymer-based nanocomposites for environmental applications. In *Handbook of Composites from Renewable Materials*, 2017-01-01, 1-8, pp. 389-421., Registrované v: SCOPUS
4. [1.2] KIM, Min Jun - HWANG, Hae Hyun - LEE, Dong Yun. Intelligent scaffold-mediated enhancement of the viability and functionality of transplanted pancreatic islets to cure diabetes mellitus. In *Handbook of Intelligent Scaffolds for Tissue Engineering and Regenerative Medicine*, 2nd Edition, 2017-01-01, pp. 757-792., Registrované v: SCOPUS
5. [1.2] VAITHILINGAM, Vijayaganapathy - BAL, Sumeet - TUCH, Bernard E. Encapsulated islet transplantation: Where do we stand? In *Review of Diabetic Studies*. ISSN 16136071, 2017-03-01, 14, 1, pp. 51-78., Registrované v: SCOPUS
- ADCA114 BYSTRICKÝ, Slavomír - PAULOVÍČOVÁ, Ema - MACHOVÁ, Eva. *Candida albicans* mannan-protein conjugate as vaccine candidate. In *Immunology Letters*, 2003, vol.85, p. 251-255. ISSN 0165-2478.
- Citácie:
1. [1.1] GILLIS, Richard B. - ADAMS, Gary G. - BESONG, David T. M. - MACHOVA, Eva - EBRINGEROVA, 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 WITH BIOPHYSICS LETTERS*. ISSN 0175-7571, 2017, vol. 46, no. 3, pp. 235-245., Registrované v: WOS
- ADCA115 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.

Citácie:

1. [1.2] DA SILVA, J. A.Lopes - RAO, M. A. *Pectins: Structure, functionality, and uses. In Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 353-411., Registrované v: SCOPUS*

2. [1.2] DUMITRIU, Severian - VIDAL, Pierre F. - CHORNET, Esteban. *Hydrogels based on polysaccharides. In Polysaccharides in Medicinal Applications, 2017-01-01, pp. 125-241., Registrované v: SCOPUS*

ADCA116

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. (5.581 - IF2007). (2008 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] ARAUJO, Danielle Silva - LIMA, Patricia de Sousa - BAEZA, Lilian Cristiane - ALVES PARENTE, Ana Flavia - BILAO, Alexandre Melo - BORGES, Clayton Luiz - DE ALMEIDA SOARES, Celia Maria. *Employing proteomic analysis to compare Paracoccidioides lutzii yeast and mycelium cell wall proteins. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, 2017, vol. 1865, no. 11, pp. 1304-1314., Registrované v: WOS*

2. [1.1] GOW, Neil A. R. - LATGE, Jean-Paul - MUNRO, Carol A. *The Fungal Cell Wall: Structure, Biosynthesis, and Function. In MICROBIOLOGY SPECTRUM, 2017, vol. 5, no. 3, pp., Registrované v: WOS*

ADCA117

CAPEK, Peter - TOMAN, Rudolf - Kardošová, Alžbeta - ROSIK, J. Polysaccharides from the roots of the marsh mallow (*Althaea officinalis* L.): Structure of an arabinan. In *Carbohydrate Research*, 1983, vol. 117, p. 133-140. ISSN 0008-6215.

Citácie:

1. [1.1] IMAIZUMI, Chiemi - TOMATSU, Harumi - KITAZAWA, Kiminari - YOSHIMI, Yoshihisa - SHIBANO, Seiji - KIKUCHI, Kaoru - YAMAGUCHI, Masatoshi - KANEKO, Satoshi - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. *Heterologous expression and characterization of an Arabidopsis beta-L-arabinopyranosidase and alpha-D-galactosidases acting on beta-L-arabinopyranosyl residues. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 16, pp. 4651-4661., Registrované v: WOS*

2. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. *Polysaccharides in Human Health Care. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS*

3. [1.2] BERCU, R. - BAVARU, A. - POPOVICIU, Dan Răzvan. *Contribution to the anatomy of some angiosperms flower parts with therapeutic value. In Annals of the Romanian Society for Cell Biology. ISSN 15836258, 2017-01-01, 21, 2, pp. 51-58., Registrované v: SCOPUS*

ADCA118

CAPEK, Peter - HRIBALOVÁ, W. Water-soluble polysaccharides from *Salvia officinalis* L. possessing immunomodulatory activity. In *Phytochemistry*, 2004, vol. 65, p. 1983-1992. ISSN 0031-9422.

Citácie:

1. [1.1] PAVLIC, Branimir - TESLIC, Nemanja - VIDAČKOVIC, Ana - VIDOVIC, Senka - VELICANSKI, Aleksandra - VERSARI, Andrea - RADOSAVLJEVIC, Robert - ZEKOVIC, Zoran. *Sage processing from by-product to high quality powder: I. Bioactive potential. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 107, no., pp. 81-89., Registrované v: WOS*

2. [1.1] ZEKOVIC, Zoran - PINTAC, Diandra - MAJKIC, Tatjana - VIDOVIC, Senka - MIMICA-DUKIC, Neda - TESLIC, Nemanja - VERSARI, Andrea - PAVLIC, Branimir. *Utilization of sage by-products as raw material for antioxidants recovery Ultrasound versus microwave-assisted extraction. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 49-59., Registrované v: WOS*

3. [1.2] GHORBANI, Ahmad - ESMAELIZADEH, Mahdi. *Pharmacological properties of Salvia officinalis and its components. In Journal of Traditional and Complementary Medicine, 2017-10-01, 7, 4, pp. 433-440., Registrované v: SCOPUS*

4. [1.2] KHUDIAR, Khalisa Khadim - HUSSEIN, Ghasag Jawad. *Effect of alcoholic extract of Salvia officinalis leaves on some physiological parameters aspects in acrylamide-treated rats. In Advances in Animal and Veterinary Sciences. ISSN 23093331, 2017-01-01, 5, 1, pp. 47-55., Registrované v: SCOPUS*

ADCA119

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. (2.644 - IF2008). ISSN 0144-8617.

Citácie:

1. [1.2] XIE, Mingyong - YIN, Junyi - NIE, Shaoping. *Research Progress on Structural*

Characterization of Polysaccharides from Natural Resources. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-03-31, 17, 3, pp. 1-19., Registrované v: SCOPUS

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. (1.723 - IF2007). (2008 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and characterization of pectins from primary cell walls of edible acai (*Euterpe oleracea*) berries, fruits of a monocotyledon palm. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v: WOS

ADCA121 CAPEK, Peter - ALFOLDI, Juraj - LIŠKOVÁ, Desana. An acetylated galactoglucomannan from *Picea abies* L. Karst. In *Carbohydrate Research*, 2002, vol.337, p.1033-1037. (1.349 - IF2001). (2002 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - DI FALCO, Marcos - ZHOU, Miaomiao - AGUILAR-PONTES, Maria Victoria - SIETIO, Outi-Maaria - TSANG, Adrian - DE VRIES, Ronald P. - MAKELA, Miia R. The molecular response of the white-rot fungus *Dichomitus squalens* to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., Registrované v: WOS

2. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS

3. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In *ENERGY TECHNOLOGY*. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS

ADCA122 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. (1.868 - IF2008). (2009 - Current Contents). ISSN 0141-8130.

Citácie:

1. [1.1] HAN, Miao-Miao - YI, Yang - WANG, Hong-Xun - HUANG, Fei. Investigation of the Maillard Reaction between Polysaccharides and Proteins from Longan Pulp and the Improvement in Activities. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 6, pp., Registrované v: WOS

2. [1.1] WANG, Mingchun - ZHU, Peilei - ZHAO, Shiwei - NIE, Chenzhipeng - WANG, Naifu - DU, Xianfeng - ZHOU, Yibin. Characterization, antioxidant activity and immunomodulatory activity of polysaccharides from the swollen culms of *Zizania latifolia*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 95, no., pp. 809-817., Registrované v: WOS

3. [1.1] WANG, Xin - SHAO, Chungue - LIU, Lian - GUO, Xing - XU, Yuanmei - LU, Xin. Optimization, partial characterization and antioxidant activity of an exopolysaccharide from *Lactobacillus plantarum* KX041. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 1173-1184., Registrované v: WOS

4. [1.1] XU, Nuo - GAO, Zheng - ZHANG, Jianjun - JING, Huijuan - LI, Shangshang - REN, Zhenzhen - WANG, Shouxian - JIA, Le. Hepatoprotection of enzymatic-extractable mycelia zinc polysaccharides by *Pleurotus eryngii* var. *tuoliensis*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 196-206., Registrované v: WOS

5. [1.1] ZHANG, Hua - ZHAO, Haitian - YAO, Lei - YANG, Xin - SHEN, Siyan - WANG, Jing - WANG, Zhenyu - REGENSTEIN, Joe M. - GENG, Lin. Isolation, physicochemical properties, and in vitro antioxidant activity of polysaccharides extracted from different parts of *Pinus koraiensis*. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 225-240., Registrované v: WOS

ADCA123 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. (2.596 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.

Citácie:

1. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa*

- Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS*
- ADCA124 CAPEK, Peter - ŠUTOVSKÁ, Martina - KOCMÁLOVÁ, 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. (2.858 - IF2014). (2015 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.2] AHMAD, Khalid Masood - ZAFAR, Zafarullah - MIRZA, Javed Iqbal. Effect of plant growth regulators on shoot organogenesis and somatic embryogenesis of *Echinacea purpurea* L. In Pakistan Journal of Life and Social Sciences. ISSN 17274915, 2017-01-01, 15, 2, pp. 107-113., Registrované v: SCOPUS
- ADCA125 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. (3.167 - IF2009). (2010 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] BERA, Kaushik - RAY, Sayani - RAJA, Washim - RAY, Bimalendu. Structural insight of an antioxidative arabinogalactan protein of *Aegle marmelos* fruit gum and it's interaction with beta-lactoglobulin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 300-307., Registrované v: WOS
2. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and characterization of pectins from primary cell walls of edible acai (*Euterpe oleracea*) berries, fruits of a monocotyledon palm. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v: WOS
- ADCA126 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.
- Citácie:
1. [1.1] HODAJ-CELIKU, Entela - TSIFTSOGLU, Olga - SHUKA, Lulezim - ABAZI, Sokol - HADJIPAVLOU-LITINA, Dimitra - LAZARI, Diamanto. Antioxidant Activity and Chemical Composition of Essential Oils of some Aromatic and Medicinal Plants from Albania. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2017, vol. 12, no. 5, pp. 785-790., Registrované v: WOS
2. [1.2] HODAJ-CELIKU, Entela - TSIFTSOGLU, Olga - SHUKA, Lulezim - ABAZI, Sokol - HADJIPAVLOU-LITINA, Dimitra - LAZARI, Diamanto. Antioxidant activity and volatiles constituents of wild and cultivated *Salvia officinalis* essential oils from Albania. In Journal of Hygienic Engineering and Design, 2017-01-01, 18, pp. 54-58., Registrované v: SCOPUS
- 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. (1.587 - IF2009). (2010 - Current Contents). ISSN 1388-6150.
- Citácie:
1. [1.1] BERNARDINO-NICANOR, Aurea - ACOSTA-GARCIA, Gerardo - GUEMES-VERA, Norma - LUIS MONTANEZ-SOTO, Jose - ANGELES VIVAR-VERA, Maria de los - GONZALEZ-CRUZ, Leopoldo. Fourier transform infrared and Raman spectroscopic study of the effect of the thermal treatment and extraction methods on the characteristics of ayocote bean starches. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 4, pp. 933-943., Registrované v: WOS
2. [1.1] KACZMARSKA, Karolina - GRABOWSKA, Beata - GRABOWSKI, Grzegorz - BOBROWSKI, Artur - KURLETO-KOZIOL, Zaneta. Thermal decomposition of binder based on etherified starch to use in foundry industry. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2017, vol. 130, no. 1, pp. 285-290., Registrované v: WOS
3. [1.1] PUNIA, Rakesh - SHARMA, Madan Mohan - KALITA, Dipankar - MUKHRJEE, Jagriti - NAYAK, Tarkeshwar - SINGH, Harinder. Physicochemical, morphological, thermal and pasting characteristics of starches from moth bean (*Vigna aconitifolia*) cultivars grown in India: an underutilized crop. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 13, pp. 4484-4492., Registrované v: WOS
4. [1.1] TANG HONGTAO - TANG HONGBO - LI YANPING. Synthesis, Optimization, Characterization and Property of Oxidized Hydroxypropyl Mung Bean Starch. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, 2017, vol. 41, no. 1, pp.,

- ADCA128 *Registrované v: WOS*
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. (3.463 - IF2010). (2011 - Current Contents). ISSN 0144-8617.
- Citácie:*
- [1.1] *BARUAH, Rwivoo* - *MAINA, Ndegwa H.* - *KATINA, Kati* - *JUVONEN, Riikka* - *GOYAL, Arun.* Functional food applications of dextran from *Weissella cibaria* RBA12 from pummelo (*Citrus maxima*). In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2017, vol. 242, no., pp. 124-131., *Registrované v: WOS*
 - [1.1] *HONG, Sang Pil* - *SHIN, Seung Chul* - *KANG, Woo-Kyung* - *CHIN, Young-Wools* - *TURNER, Timothy L.* - *CHOI, Hyun Wools* - *SONG, Kyung Mo* - *KIM, Hyo Jin.* Complete genome sequence of *Leuconostoc garlicum* KCCM 43211 producing exopolysaccharide. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 246, no., pp. 40-44., *Registrované v: WOS*
 - [1.1] *PRAKASHA, Avinash* - *GRICE, I. Darren* - *KUMAR, K. S. Vinay* - *SADASHIVA, M. P.* - *SHANKAR, H. N.* - *UMESHA, S.* Extracellular polysaccharide from *Ralstonia solanacearum*; A strong inducer of eggplant defense against bacterial wilt. In *BIOLOGICAL CONTROL*. ISSN 1049-9644, 2017, vol. 110, no., pp. 107-116., *Registrované v: WOS*
- ADCA129 CAPEK, Peter - KUBAČKOVÁ, M. - ALFOLDI, Juraj - BILISICS, Ladislav - LISKOVA, Desana - KÁKONIOVÁ, Daniela. Galactoglucomannan from the secondary cell wall of *Picea abies* L. Karst. In *Carbohydrate Research*, 2000, vol. 329, p. 635-645. (1.252 - IF1999). (2000 - Current Contents). ISSN 0008-6215.
- Citácie:*
- [1.1] *ANDO, Daisuke* - *NAKATSUBO, Fumiaki* - *YANO, Hiroyuki.* Acetylation of Ground Pulp: Monitoring Acetylation via HSQC-NMR Spectroscopy. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 2, pp. 1755-1762., *Registrované v: WOS*
 - [1.1] *HE, Chunmei* - *WU, Kunlin* - *ZHANG, Jianxia* - *LIU, Xuncheng* - *ZENG, Songjun* - *YU, Zhenming* - *ZHANG, Xinghua* - *DA SILVA, Jaime A. Teixeira* - *DENG, Rufang* - *TAN, Jianwen* - *LUO, Jianping* - *DUAN, Jun.* Cytochemical Localization of Polysaccharides in *Dendrobium officinale* and the Involvement of DoCSLA6 in the Synthesis of Mannan Polysaccharides. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., *Registrované v: WOS*
 - [1.1] *RYTIOJA, Johanna* - *HILDEN, Kristiina* - *DI FALCO, Marcos* - *ZHOU, Miaomiao* - *AGUILAR-PONTES, Maria Victoria* - *SIETIO, Outi-Maaria* - *TSANG, Adrian* - *DE VRIES, Ronald P.* - *MAKELA, Miia R.* The molecular response of the white-rot fungus *Dichomitus squalens* to wood and non-woody biomass as examined by transcriptome and exoproteome analyses. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., *Registrované v: WOS*
 - [1.1] *ZHOU, Xiaowei* - *LI, Wenjun* - *MABON, Ross* - *BROADBELT, Linda J.* A Critical Review on Hemicellulose Pyrolysis. In *ENERGY TECHNOLOGY*. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., *Registrované v: WOS*
 - [1.2] *DA CRUZ, Andrezza Furquim.* Mannan-degrading enzyme system. In *Fungal Enzymes*, 2016-04-19, pp. 233-257., *Registrované v: SCOPUS*
 - [2.1] *BARBIERI, Shayla Fernanda* - *RUTHES, Andrea Caroline* - *DE OLIVEIRA PETKOWICZ, Carmen Lucia* - *BUENO DE GODOY, Rossana Catie* - *SASSAKI, Guilherme Lanzi* - *SANTANA FILHO, Arquimedes Paixao* - *MEIRA SILVEIRA, Joana Lea.* Extraction, purification and structural characterization of a galactoglucomannan from the gabioba fruit (*Campomanesia xanthocarpa* Berg), Myrtaceae family. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 887-895., *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).
- Citácie:*
- [1.1] *BEN GARA, Amel* - *KOLSI, Rihab Ben Abdallah* - *CHAABEN, Rim* - *HAMMAMI, Nadia* - *KAMMOUN, Majed* - *PATTI, Francesco Paolo* - *EL FEKI, Abdelfattah* - *FKI, Lotfi* - *BELGHITH, Hafedh* - *BELGHITH, Karima.* Inhibition of key digestive enzymes related to hyperlipidemia and protection of liver-kidney functions by *Cystoseira crinita* sulphated polysaccharide in high-fat diet-fed rats. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2017, vol. 85, no., pp. 517-526., *Registrované v: WOS*
 - [1.1] *BEN GARA, Amel* - *KOLSI, Rihab Ben Abdallah* - *JARDAK, Neila* - *CHAABEN, Rim* - *EL-FEKI, Abdelfattah* - *FKI, Lotfi* - *BELGHITH, Hafedh* - *BELGHITH, Karima.* Inhibitory activities of *Cystoseira crinita* sulfated polysaccharide on key enzymes related to diabetes and hypertension: in vitro and animal study. In *ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 1381-

- 3455, 2017, vol. 123, no. 1, pp. 31-42., Registrované v: WOS
3. [1.1] Hull, EE (Hull, Elizabeth E.); Montgomery, MR (Montgomery, McKale R.); Leyva, KJ (Leyva, Kathryn J.) *Epigenetic Regulation of the Biosynthesis & Enzymatic Modification of Heparan Sulfate Proteoglycans: Implications for Tumorigenesis and Cancer Biomarkers*. In: *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* Volume: 18 Issue: 7 Article Number: 1361, Registrované v: WOS
4. [1.2] LIU, Jie ru - WANG, Hui fang - YU, Dan feng - CHEN, Xiao yu - HE, Shu ying. *Modulation of binding to vascular endothelial growth factor and receptor by heparin derived oligosaccharide*. In *Carbohydrate Polymers*. ISSN 01448617, 2017-10-15, 174, pp. 558-564., Registrované v: SCOPUS
5. [1.2] NADANAKA, Satomi - KITAGAWA, Hiroshi. *Heparan sulfate signaling in cancer*. In *Seikagaku*. ISSN 00371017, 2017-01-01, 89, 5, pp. 681-688., Registrované v: SCOPUS
- ADCA131 COTE, D.L. - LEATHERS, T.D. - AHLGREN, J.A. - WYCKHOFF, H.A. - HAYMAN, G.T. - BIELY, Peter. Alternan and highly branched limit dextrans: Low-viscosity polysaccharides as potential new food ingredients. In OKAI, H. - MILLS, O. - SPANIER, A.M. - TAMURA, M. (eds.). *Chemistry of Novel Foods*. Carol Stream, IL, USA, 1997, chapter 8, p. 95-109.
Citácie:
1. [1.1] Zannini, E (Zannini, Emanuele); Waters, DM (Waters, Deborah M.); Coffey, A (Coffey, Aidan); Arendt, EK (Arendt, Elke K.). *Production, properties, and industrial food application of lactic acid bacteria-derived exopolysaccharides*. In: *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY* Vol. 100 (1997) Issue: 3 p. 1121-1135, Registrované v: WOS
- ADCA132 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] LIGHT, Samuel H. - CAHOON, Lary A. - HALAVATY, Andrei S. - FREITAG, Nancy E. - ANDERSON, Wayne F. *Structure to function of an alpha-glucan metabolic pathway that promotes Listeria monocytogenes pathogenesis*. In *NATURE MICROBIOLOGY*. ISSN 2058-5276, 2017, vol. 2, no. 2, pp., Registrované v: WOS
2. [1.1] MAITI, Krishnagopal - SAMANTA, Gopal Kumar - DASKHAN, Gour Chand - JAYARAMAN, N. *Chemical and enzymatic approaches to the synthesis of cyclic oligosaccharides*. In *CARBOHYDRATE CHEMISTRY, VOL 42*. ISSN 2041-353X, 2017, vol. 42, no., pp. 165-209., Registrované v: WOS
3. [1.1] NAKAMURA, Shuji - KUNIKATA, Toshio - MATSUMOTO, Yohsuke - HANAYA, Toshiharu - HARASHIMA, Akira - NISHIMOTO, Tomoyuki - USHIO, Shimpei. *Effects of a non-cyclodextrin cyclic carbohydrate on mouse melanoma cells: Characterization of a new type of hypopigmenting sugar*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS
4. [1.1] TSUDA, Susumu - KOMATSU, Yuya - MINAMI, Yohei - UEDA, Ryoji - FUJIWARA, Shin-ichi - IWASAKI, Takanori - KUNIYASU, Hitoshi - KAMBE, Nobuaki. *SYNTHESIS OF CYCLIC NIGEROSYLNIGEROSE (CNN) BIS-IMIDAZOLIUM SALTS*. In *HETEROCYCLES*. ISSN 0385-5414, 2017, vol. 95, no. 2, pp. 1197-1203., Registrované v: WOS
- ADCA133 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.
Citácie:
1. [1.2] CHIU, Hui Fang - HUANG, Shin Ru - LU, Yan Ying - HAN, Yi Chun - SHEN, You Cheng - VENKATAKRISHNAN, Kamesh - WANG, Chin Kun. *Antimutagenicity, antibacteria, and water holding capacity of chitosan from Luffa aegyptiaca Mill and Cucumis sativus L*. In *Journal of Food Biochemistry*. ISSN 01458884, 2017-06-01, 41, 3, pp., Registrované v: SCOPUS
2. [2.2] HORVATHOVÁ, E. - KOZICS, K. - MELUSOVÁ, M. - GALOVÁ, E. - SEVCOVICOVA, A. - KUSZNIEREWICZ, B. - CHMIEL, T. - SLAMENOVÁ, D. *Chromatographic analyses of Lavandula angustifolia and Rosmarinus officinalis extracts and their biological effects in mammalian cells and cell-free systems*. In *Neoplasma*. ISSN 00282685, 2017-01-01, 64, 6, pp. 856-868., Registrované v: SCOPUS
- ADCA134 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. ISSN 0038-9056.
Citácie:
1. [1.1] JINDAL, Manish - RANA, Vikas - KUMAR, Vineet - SAPRA, Bharti - TIWARY, Ashok K. *Synthesis, physico-chemical and biomedical applications of sulfated Aegle marmelos gum: Green chemistry approach*. In *ARABIAN JOURNAL OF CHEMISTRY*. ISSN 1878-5352, 2017, vol. 10,

- no., pp. S2151-S2159., Registrované v: WOS
- [1.1] KROLIKOWSKA, Karolina - FORTUNA, Teresa - PIETRZYK, Slawomir - KHACHATRYAN, Karen - PAJAK, Paulina. Effect of metal ions on physicochemical and rheological properties of octenyl succinate starches. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 86, no., pp. 447-455., Registrované v: WOS
 - [1.1] SUJKA, Monika. Ultrasonic modification of starch Impact on granules porosity. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 37, no., pp. 424-429., Registrované v: WOS
 - [1.1] XIE, MengXi - DUAN, YuMin - LI, FanShu - WANG, Xia - CUI, XiaoTong - BACHA, Umar - ZHU, MinPeng - XIAO, Zhigang - ZHAO, Zhuo. Preparation and characterization of modified and functional starch (hexadecyl carboxymethyl starch) ether using reactive extrusion. In *STARCH-STARKE*. ISSN 0038-9056, 2017, vol. 69, no. 5-6, pp., Registrované v: WOS
- ADCA135 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. ISSN 0038-9056.
- Citácie:
- [1.1] ZHANG, Hongkui - XU, Cheng - LU, Yuting - WANG, Yuanhao - TAN, Fengzhi - LI, Yuan. The Thermal Stability and Rheological Properties of Alkylated Carboxymethyl Starch. In *JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS*. ISSN 0022-2348, 2017, vol. 56, no. 8, pp. 595-607., Registrované v: WOS
 - [1.2] XIE, Mengxi - ZHU, Minpeng - XIAO, Zhigang - REN, Haibin - ZHUO, Zhao - LIU, Chunjing. Properties of Hexadecyl Carboxymethyl Starch derivates by Extrusion. In *Journal of the Chinese Cereals and Oils Association*. ISSN 10030174, 2017-05-25, 32, 5, pp. 75-81., Registrované v: SCOPUS
- ADCA136 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. (4.712 - IF2015). (2016 - Current Contents). ISSN 0003-2670.
- Citácie:
- [1.1] CHEN, Na - RONG, Ming - SHAO, Xiaoguang - ZHANG, Heng - LIU, Shupeng - DONG, Baijun - XUE, Wei - WANG, Tingyun - LI, Taihao - PAN, Jiahua. Surface-enhanced Raman spectroscopy of serum accurately detects prostate cancer in patients with prostate-specific antigen levels of 4-10 ng/mL. In *INTERNATIONAL JOURNAL OF NANOMEDICINE*. ISSN 1178-2013, 2017, vol. 12, no., pp. 5399-5407., Registrované v: WOS
 - [1.1] CHEN, Shaoyun - LIANG, Hairong - YANG, Hui - ZHOU, Kairu - XU, Longmei - LIU, Jiaxian - LAI, Bei - SONG, Li - LUO, Hao - PENG, Jianming - LIU, Zhidong - XIAO, Yongmei - CHEN, Wen - TANG, Huanwen. LincRNA-p21: function and mechanism in cancer. In *MEDICAL ONCOLOGY*. ISSN 1357-0560, 2017, vol. 34, no. 5, pp., Registrované v: WOS
 - [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
- ADCA137 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. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654.
- Citácie:
- [1.1] ARYA, Sunil K. - ESTRELA, Pedro. Electrochemical immunosensor for tumor necrosis factor-alpha detection in undiluted serum. In *METHODS*. ISSN 1046-2023, 2017, vol. 116, no., pp. 125-131., Registrované v: WOS
 - [1.1] SHARMA, Shikha - ZAPATERO-RODRIGUEZ, Julia - O'KENNEDY, Richard. Prostate cancer diagnostics: Clinical challenges and the ongoing need for disruptive and effective diagnostic tools. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2017, vol. 35, no. 2, pp. 135-149., Registrované v: WOS
- ADCA138 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. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853.
- Citácie:
- [1.1] COULIBALY, Fohona S. - YOUAN, Bi-Botti C. Current status of lectin-based cancer diagnosis and therapy. In *AIMS MOLECULAR SCIENCE*. ISSN 2372-0301, 2017, vol. 4, no. 1, pp. 1-27., Registrované v: WOS
 - [1.1] FIGUEIROA, Evellyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina -

ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. *Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents*. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS

3. [1.1] LI, Faying - LI, Yueyun - FENG, Jinhui - DONG, Yunhui - WANG, Ping - CHEN, Lei - CHEN, Zhiwei - LIU, Hui - WEI, Qin. *Ultrasensitive amperometric immunosensor for PSA detection based on Cu₂O@CeO₂-Au nanocomposites as integrated triple signal amplification strategy*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 87, no., pp. 630-637., Registrované v: WOS

ADCA139 DAMBORSKÝ, Pavel - KRIŽÁKOVÁ, Martina, Zámorová - KATRLÍK, Jaroslav. Determining the binding affinities of prostate-specific antigen to lectins: SPR and microarray approaches. In *Proteomics*, 2016, vol. 16, p. 3096-3104. (4.079 - IF2015). (2016 - Current Contents). ISSN 1615-9853.

Citácie:

1. [1.1] WANG, Wei - SORIANO, Brian - CHEN, Qing. *Glycan profiling of proteins using lectin binding by Surface Plasmon Resonance*. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 538, no., pp. 53-63., Registrované v: WOS

ADCA140 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. (4.033 - IF2015). (2016 - Current Contents). ISSN 0003-2654.

Citácie:

1. [1.1] MAHATO, Kuldeep - SRIVASTAVA, Ananya - CHANDRA, Pranjal. *Paper based diagnostics for personalized health care: Emerging technologies and commercial aspects*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 96, no., pp. 246-259., Registrované v: WOS

ADCA141 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. (5.646 - IF2006). (2007 - Current Contents). ISSN 0003-2700.

Citácie:

1. [1.1] DIACCI, Chiara - BERTO, Marcello - DI LAURO, Michele - BIANCHINI, Elena - PINTI, Marcello - SIMON, Daniel T. - BISCARINI, Fabio - BORTOLOTTI, Carlo A. *Label-free detection of interleukin-6 using electrolyte gated organic field effect transistors*. In *BIOINTERPHASES*. ISSN 1934-8630, 2017, vol. 12, no. 5, pp., Registrované v: WOS

2. [1.1] LI, Zhounmin - LI, Zhonghui - NIU, Qiqi - LI, Hui - VUKI, Maika - XU, Danke. *Visual microarray detection for human IgE based on silver nanoparticles*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 239, no., pp. 45-51., Registrované v: WOS

3. [1.1] XIA, Ning - CHEN, Zhihua - LIU, Yadong - REN, Huizhu - LIU, Lin. *Peptide aptamer-based biosensor for the detection of human chorionic gonadotropin by converting silver nanoparticles-based colorimetric assay into sensitive electrochemical analysis*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 243, no., pp. 784-791., Registrované v: WOS

4. [1.1] XIA, Ning - WANG, Xin - YU, Jie - WU, Yangyang - CHENG, Shuchao - XING, Yun - LIU, Lin. *Design of electrochemical biosensors with peptide probes as the receptors of targets and the inducers of gold nanoparticles assembly on electrode surface*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 239, no., pp. 834-840., Registrované v: WOS

ADCA142 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. (5.712 - IF2008). (2009 - Current Contents). ISSN 0003-2700.

Citácie:

1. [1.1] BADDOUR, Carole Emilie - DAS, Kaushik - VENGALLATORE, Srikar - MEUNIER, Jean-Luc. *Production and characterization of a novel carbon nanotube/titanium nitride nanocomposite*. In *MATERIALS RESEARCH EXPRESS*. ISSN 2053-1591, 2016, vol. 3, no. 12, pp., Registrované v: WOS

2. [1.1] DIACCI, Chiara - BERTO, Marcello - DI LAURO, Michele - BIANCHINI, Elena - PINTI, Marcello - SIMON, Daniel T. - BISCARINI, Fabio - BORTOLOTTI, Carlo A. *Label-free detection of interleukin-6 using electrolyte gated organic field effect transistors*. In *BIOINTERPHASES*. ISSN 1934-8630, 2017, vol. 12, no. 5, pp., Registrované v: WOS

3. [1.1] SUN, Kai - CHANG, Yong - ZHOU, Binbin - WANG, Xiaojin - LIU, Lin. *Gold*

- nanoparticles-based electrochemical method for the detection of protein kinase with a peptide-like inhibitor as the bioreceptor. In INTERNATIONAL JOURNAL OF NANOMEDICINE. ISSN 1178-2013, 2017, vol. 12, no., pp. 1905-1915., Registrované v: WOS*
4. [1.1] YU, Xiaowen - YANG, Yu-Ping - DIKICI, Emre - DEO, Sapna K. - DAUNERT, Sylvia. *Beyond Antibodies as Binding Partners: The Role of Antibody Mimetics in Bioanalysis. In ANNUAL REVIEW OF ANALYTICAL CHEMISTRY, VOL 10. ISSN 1936-1327, 2017, vol. 10, no., pp. 293-320., Registrované v: WOS*
- ADCA143 DEFAYE, J. - GUILLOT, J.M. - BIELY, Peter - VRŠANSKÁ, Mária. Stereoselective thioglycoses synthesis. 14. Positional isomers of thioxyllobiose, their synthesis and inducing ability for D-xylan-degrading enzymes in the yeast *Cryptococcus albidus*. In *Carbohydrate Research*, 1992, vol.228, p. 47-64. (1.299 - IF1991). ISSN 0008-6215.
- Citácie:
1. [1.1] AGRAWAL, Siddarth - WOZNIAK, Marta - LUC, Mateusz - WALASZEK, Kinga - PIELKA, Ewa - SZEJA, Wieslaw - PASTUCH-GAWOLEK, Gabriela - GAMIAN, Andrzej - ZIOLKOWSKI, Piotr. *Insulin and novel thioglycosides exert suppressive effect on human breast and colon carcinoma cells. In ONCOTARGET. ISSN 1949-2553, 2017, vol. 8, no. 69, pp. 114173-114182., Registrované v: WOS*
- ADCA144 DEMOVIČOVÁ, Lucia - HOBZA, Pavel - ŘEZÁČ, Jan. Evaluation of composite schemes for CCSDT(Q) calculations of interaction energies of noncovalent complexes. In *Physical Chemistry Chemical Physics*, 2014, vol. 16, p. 19115-19121. (4.198 - IF2013). (2014 - Current Contents). ISSN 1463-9076.
- Citácie:
1. [1.1] HOU, Dan - ZHANG, Xiao-Long - ZHAI, Yu - LI, Hui. *The Role of High Excitations in Constructing Sub-spectroscopic Accuracy Intermolecular Potential of He-HCN: Critically Examined by the High-Resolution Spectra with Resonance States. In CHINESE JOURNAL OF CHEMICAL PHYSICS. ISSN 1674-0068, 2017, vol. 30, no. 6, pp. 776-788., Registrované v: WOS*
2. [1.1] IZGORODINA, Ekaterina I. - SEEGER, Zoe L. - SCARBOROUGH, David L. A. - TAN, Samuel Y. S. *Quantum Chemical Methods for the Prediction of Energetic, Physical, and Spectroscopic Properties of Ionic Liquids. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 10, pp. 6696-6754., Registrované v: WOS*
3. [1.1] PATKOWSKI, Konrad. *Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In ANNUAL REPORTS IN COMPUTATIONAL CHEMISTRY, VOL 13. ISSN 1574-1400, 2017, vol. 13, no., pp. 3-91., Registrované v: WOS*
- ADCA145 DERGUNOVA, M.A. - ALEXEENKO, T.V. - ZHANAIEVA, S.Y. - FILYUSHINA, E.E. - BUZUEVA, I.I. - KOLESNIKOVA, O.P. - KOGAN, Grigorij - KOROLENKO, T.A. Characterization of the novel chemically modified fungal polysaccharides as the macrophage stimulators. In *International Immunopharmacology*, 2009, vol. 9, p. 729-733.
- Citácie:
1. [1.1] DUTTA, Anu Singh P. K. *Extraction of Chitin-Glucan Complex from Agaricus bisporus: Characterization and Antibacterial Activity. In JOURNAL OF POLYMER MATERIALS. ISSN 0973-8622, 2017, vol. 34, no. 1, pp. 1-9., Registrované v: WOS*
- ADCA146 DESBOUIS, D. - STRUTHERS, H. - SPIWOK, Wojtech - KUSTER, T. - SCHIBLI, R. Synthesis, in vitro, and in silico evaluation of organometallic technetium and rhenium thymidine complexes with retained substrate activity toward human thymidine kinase type 1. In *Journal of medicinal chemistry*, 2008, vol. 51, p.6689-6698. ISSN 0022-2623.
- Citácie:
1. [1.1] PAPAGIANNOPOULOU, Dionysia. *Technetium-99m radiochemistry for pharmaceutical applications. In JOURNAL OF LABELLED COMPOUNDS & RADIOPHARMACEUTICALS. ISSN 0362-4803, 2017, vol. 60, no. 11, pp. 502-520., Registrované v: WOS*
2. [1.2] KARTHIKEYAN, Muthuraman - GOVINDARAJAN, Ramadoss - DURAISAMY, Ezhumalai - VEENA, Vijayakumar - SAKTHIVEL, Natarajan - MANIMARAN, Bala. *Self-Assembly of Chalcogenolato-Bridged Ester and Amide Functionalized Dinuclear Re(I) Metallacycles: Synthesis, Structural Characterization and Preliminary Cytotoxicity Studies. In ChemistrySelect, 2017-01-01, 2, 11, pp. 3362-3368., Registrované v: SCOPUS*
- ADCA147 DLAPA, Pavel - SIMKOVIC, Ivan jr. - DOERR, Stefan H. - ŠIMKOVIC, Ivan - KANKA, Róbert - MATAIX-SOLERA, Jorge. Application of thermal analysis to elucidate water-repellency changes in heated soils. In *Soil Science Society American Journal*, 2008, vol. 72, no. 1, p. 1-10. (2.104 - IF2007). (2008 - Current Contents). ISSN 0361-5995.
- Citácie:
1. [1.1] DYMOV, Alexey A. - GABOV, Dmitry N. - MILANOVSKII, Evgeniy Yu. *C-13-NMR, PAHs, WSOC and water repellence of fire-affected soils (Albic Podzols) in lichen pine forests, Russia. In ENVIRONMENTAL EARTH SCIENCES. ISSN 1866-6280, 2017, vol. 76, no. 7, article number: 275., Registrované v: WOS*

2. [1.1] NADAV, Itamar - TARCHITZKY, Jorge - CHEN, Yona. Water repellency reduction using soil heating in infiltration ponds of a wastewater soil aquifer treatment (SAT). In *JOURNAL OF PLANT NUTRITION AND SOIL SCIENCE*. ISSN 1436-8730, 2017, vol. 180, no. 2, p. 142-152., Registrované v: WOS
3. [1.1] UDDIN, S. M. Mijan - DANIEL, Nicholas R. R. - HARPER, Richard J. - HENRY, David J. Why do biogenic volatile organic compounds (BVOCs) derived from vegetation fire not induce soil water repellency? In *BIOGEOCHEMISTRY*. ISSN 0168-2563, 2017, vol. 134, no. 1-2, p. 147-161., Registrované v: WOS
- ADCA148 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KOGAN, Grigorij - JANČINOVÁ, Viera. Glucomannan reduces neutrophil free radical production in vitro and in rats with adjuvant arthritis. In *Pharmacological research*, 2009, vol. 59, p. 399-403. (3.287 - IF2008). (2009 - Current Contents). ISSN 1043-6618.
Citácie:
1. [1.1] KIELISZEK, M. - KOT, A.M. - BZDUCHA-WRÓBEL, A. - BŁAŻEJAK, S. - GIENKA, I. - KURCZ, A. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, p. 185-198., Registrované v: WOS
- ADCA149 DRÍMALOVÁ, 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. (1.710 - IF2004). (2005 - Current Contents). ISSN 0144-8617.
Citácie:
1. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In *PHARMACEUTICAL BIOLOGY*. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS
2. [1.1] NESTOR, Gustav - SANDSTROM, Corine. NMR study of hydroxy and amide protons in hyaluronan polymers. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 920-928., Registrované v: WOS
- ADCA150 DUDÍKOVÁ, Jana - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír - KOLAROVA, Nadežda. Exploration of transfructosylation activity in cell walls from *Cryptococcus laurentii* for production of functionalised beta-D-fructofuranosides. In *Journal of Molecular Catalysis B - Enzymatic*, 2007, vol. 45, p. 27-33. ISSN 1381-1177.
Citácie:
1. [1.1] HERRERA-GONZALEZ, Azucena - NUNEZ-LOPEZ, Gema - MOREL, Sandrine - AMAYA-DELGADO, Lorena - SANDOVAL, Georgina - GSCHAEGLER, Anne - REMAUD-SIMEON, Magali - ARRIZON, Javier. Functionalization of natural compounds by enzymatic fructosylation. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5223-5234., Registrované v: WOS
- ADCA151 DUPUY, Joan - LEGLIZE, Pierre - VINCENT, Quentin - ZELKO, Ivan - MUSTIN, Christian - OUVREARD, Stephanie - STERCKEMAN, Thibault. Effect and localization of phenanthrene in maize roots. In *Chemosphere*, 2016, vol. 149, p. 130-136. (3.698 - IF2015). (2016 - Current Contents). ISSN 0045-6535.
Citácie:
1. [1.1] BARONE, Roberto - DE BIASI, Margherita-Gabriella - PICCIALLI, Vincenzo - DE NAPOLI, Lorenzo - OLIVIERO, Giorgia - BORBONE, Nicola - PICCIALLI, Gennaro. Degradation of some representative polycyclic aromatic hydrocarbons by the water-soluble protein extracts from *Zea mays* L. cv PR32-B10. In *CHEMOSPHERE*. ISSN 0045-6535, 2016, vol. 160, no., pp. 258-265., Registrované v: WOS
2. [1.1] CENNERAZZO, Johanne - DE JUNET, Alexis - AUDINOT, Jean-Nicolas - LEYVAL, Corinne. Dynamics of PAHs and derived organic compounds in a soil-plant mesocosm spiked with C-13-phenanthrene. In *CHEMOSPHERE*. ISSN 0045-6535, 2017, vol. 168, no., pp. 1619-1627., Registrované v: WOS
3. [1.1] GAO, Yanzheng - HU, Xiaojie - ZHOU, Ziyuan - ZHANG, Wei - WANG, Yize - SUN, Bingqing. Phytoavailability and mechanism of bound PAH residues in filed contaminated soils. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2017, vol. 222, no., pp. 465-476., Registrované v: WOS
4. [1.1] LI, Ruilong - TAN, Huadong - ZHU, Yaxian - ZHANG, Yong. The retention and distribution of parent, alkylated, and N/O/S-containing polycyclic aromatic hydrocarbons on the epidermal tissue of mangrove seedlings. In *ENVIRONMENTAL POLLUTION*. ISSN 0269-7491, 2017, vol. 226, no., pp. 135-142., Registrované v: WOS

5. [1.1] TAN, Huadong - LI, Ruilong - ZHU, Yaxian - ZHANG, Yong. In situ quantitative and visual investigation of the retention of polycyclic aromatic hydrocarbons on the root surface of *Kandelia obovata* using a microscopic fluorescence spectral analysis method. In *TALANTA*. ISSN 0039-9140, 2017, vol. 167, no., pp. 86-93., Registrované v: WOS
- ADCA152 ĐURANA, Richard - LACÍK, Igor - PAULOVICOVÁ, Ema - BYSTRICKÝ, Slavomír. Functionalization of mannans from pathogenic yeasts by different means of oxidations-preparation of precursors for conjugation reactions with respect to preservation of immunological properties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2006, vol. 63, no. 1, p. 72 - 81. (1.583 - IF2005). (2006 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] GHAFAR, A. - GURIKOV, P. - SUBRAHMANYAM, R. - PARIKKA, K. - TENKANEN, M. - SMIRNOVA, I. - MIKKONEN, K.S. Mesoporous guar galactomannan based biocomposite aerogels through enzymatic crosslinking. In *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING*. ISSN 1359-835X, MAR 2017, vol. 94, p. 93-103., Registrované v: WOS
 - [1.1] PIERRE, G. - PUNTA, C. - DELATTRE, C. - MELONE, L. - DUBESSAY, P. - FIORATI, A. - PASTORI, N. - GALANTE, Y.M. - MICHAUD, P. TEMPO-mediated oxidation of polysaccharides: An ongoing story. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, JUN 1 2017, vol. 165, p. 71-85., Registrované v: WOS
- ADCA153 ĐURANA, Richard - BYSTRICKÝ, Slavomír. Preparation and characterization of adipic acid dihydrazide derivatives of yeas mannans. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2002, vol. 50, p. 177-181. (1.203 - IF2001). (2002 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] GABER, Mohamed - KHEDR, Abdalla M. - ELSHARKAWY, Mohsen. Characterization and thermal studies of nano-synthesized Mn(II), Co(II), Ni(II) and Cu(II) complexes with adipohydrazone ligand as new promising antimicrobial and antitumor agents. In *APPLIED ORGANOMETALLIC CHEMISTRY*. ISSN 0268-2605, 2017, vol. 31, no. 12, pp., Registrované v: WOS
 - [1.2] HU, Haifeng - WANG, Yaoxian. Application of computer simulation technology in chemical synthesis of resin material ADH. In *Chemical Engineering Transactions*, 2017-01-01, 59, pp. 595-600., Registrované v: SCOPUS
 - [1.2] LI, Yanan - LIU, Hongzhi - LIU, Li - SHI, Aimin - LIN, Weijing - WANG, Qiang. Rheological Properties of Yeast Mannans of Three Kinds of Purity. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-02-28, 17, 2, pp. 36-43., Registrované v: SCOPUS
- ADCA154 ĐURANOVÁ, Miroslava, Křupalová - HIRSCH, Ján - ŠUCHOVÁ, Katarína, Kolenová - 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.
- Citácie:
- [1.1] BELENOK, M. G. - ANDREEVA, O. V. - GARIFULLIN, B. F. - STROBYKINA, A. S. - KRAVCHENKO, M. A. - VOLOSHINA, A. D. - KATAEV, V. E. Synthesis and Antitubercular, Antimicrobial, and Hemolytic Activity of Methyl D-Glucopyranuronate and Its Simplest Derivatives. In *RUSSIAN JOURNAL OF GENERAL CHEMISTRY*. ISSN 1070-3632, 2017, vol. 87, no. 12, pp. 2816-2825., Registrované v: WOS
 - [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
 - [1.1] Group Author(s): Uniprot Consortium. P0CT88. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P0CT88>, Registrované v: WOS
 - [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
- ADCA155 ĐURANOVÁ, Miroslava, Křupalová - ŠPÁNIKOVÁ, Silvia - WOSTEN, Han A.B. - BIELY, Peter - DE VRIES, Ronald P. Two glucuronoyl esterases of *Phanerochaete chrysosporium*. Han A.B. Wosten, Peter Biely, Ronald P de Vries. In *Archives of Microbiology*, 2009, vol.191, pp.133-140. (1.975 - IF2008). (2009 - Current Contents). ISSN 0302-8933.
- Citácie:
- [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele.

- Structural insight into a CE15 esterase from the marine bacterial metagenome. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS*
2. [1.1] Group Author(s): Uniprot Consortium. P0CT88. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P0CT88>, Registrované v: WOS
3. [1.2] ADAM, S. - TLATLIK, S. - GOTTSCHALK, A. Technical production process for innovative antioxidants using novel enzymes as biocatalyst. In European Biomass Conference and Exhibition Proceedings, 2017-06-01, 2017, 25thEUBCE, pp. 2026-2029., Registrované v: SCOPUS
4. [1.2] MICHELIN, Michele - ROMANI, Aloia - SALGADO, Jose Manuel - DOMINGUES, Lucilia - TEIXEIRA, Jose A. Production of hemicellulases, xylitol, and furan from hemicellulosic hydrolysates using hydrothermal pretreatment. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 285-315., Registrované v: SCOPUS
- ADCA156 ĐURKOVIČ, J. - LUX, Alexander. Micropropagation with a novel pattern of adventitious rooting in American sweetgum (*Liquidambar styraciflua* L.). In Trees-Structure and Function, 2010, vol. 24, p. 491-497. (1.603 - IF2009). (2010 - Current Contents). ISSN 0931-1890.
- Citácie:
1. [1.1] ILIEV, I. A. Factors affecting the axillary and adventitious shoot formation in woody plants in vitro. In VI INTERNATIONAL SYMPOSIUM ON PRODUCTION AND ESTABLISHMENT OF MICROPROPAGATED PLANTS. ISSN 0567-7572, 2017, vol. 1155, no., pp. 15-27., Registrované v: WOS
- ADCA157 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. (2.108 - IF2008). ISSN 8756-7938.
- Citácie:
1. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of different fermentation strategies on beta-mannanase production in fed-batch bioreactor system. In 3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. Q4WBS1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: WOS
3. [1.1] LADEVEZE, Simon - LAVILLE, Elisabeth - DESPRES, Jordane - MOSONI, Pascale - POTOCKI-VERONESE, Gabrielle. Mannoside recognition and degradation by bacteria. In BIOLOGICAL REVIEWS. ISSN 1464-7931, 2017, vol. 92, no. 4, pp. 1969-1990., Registrované v: WOS
4. [1.1] SAKAI, Kiyota - MOCHIZUKI, Mai - YAMADA, Miyuki - SHINZAWA, Yuta - MINEZAWA, Miho - KIMOTO, Saran - MURATA, Shunsuke - KANEKO, Yuhei - ISHIHARA, Saaya - JINDOU, Sadanari - KOBAYASHI, Tetsuo - KATO, Masashi - SHIMIZU, Motoyuki. Biochemical characterization of thermostable beta-1,4-mannanase belonging to the glycoside hydrolase family 134 from *Aspergillus oryzae*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3237-3245., Registrované v: WOS
5. [1.2] DA CRUZ, Andreza Furquim. Mannan-degrading enzyme system. In Fungal Enzymes, 2016-04-19, pp. 233-257., Registrované v: SCOPUS
- ADCA158 DZIGIEL, P. - REEVE, T.B. - PIARULLI, U. - KRUPÍČKA, M. - TVAROŠKA, Igor - GENNARI, C. Resolution of racemic N-benzyl alpha-amino acids by liquid-liquid extraction: a practical method using a lipophilic chiral cobalt(III) salen complex and mechanistic studies. In European Journal of Organic Chemistry, 2008, p. 1253-1264.
- Citácie:
1. [1.1] LU, Ruichen - HE, Quan - FENG, Cai - PENG, Yangfeng. Enantioselective resolution of 4-chloromandelic acid by liquid-liquid extraction using 2-chloro-N-carbobenzyloxy-L-amino acid. In CHIRALITY. ISSN 0899-0042, 2017, vol. 29, no. 11, pp. 708-715., Registrované v: WOS
2. [1.1] SPECKLIN, David - FLIEDEL, Christophe - HILD, Frederic - MAMERI, Samir - KARMAZIN, Lydia - BAILLY, Corinne - DAGORNE, Samuel. Mononuclear salen-gallium complexes for iso-selective ring-opening polymerization (ROP) of rac-lactide. In DALTON TRANSACTIONS. ISSN 1477-9226, 2017, vol. 46, no. 38, pp. 12824-12834., Registrované v: WOS
- ADCA159 DZURILLA, M. - KUTSCHY, P. - ZÁLETOVÁ, J. - RUŽINSKÝ, M. - KOVÁČIK, Vladimír. Synthesis of camalexin. In Molecules, 2001, vol. 6, p. 716-720. ISSN 1420-3049.
- Citácie:
1. [1.1] EL-SAWY, Eslam R. - ABO-SALEM, Heba M. - MANDOUR, Adel H. 1H-Indole-3-carboxaldehyde: Synthesis and Reactions. In EGYPTIAN JOURNAL OF CHEMISTRY. ISSN 0449-2285, 2017, vol. 60, no. 5, pp. 723-751., Registrované v: WOS
- ADCA160 DZURILLA, M. - RUŽINSKÝ, M. - KUTSCHY, P. - TEWARI, J.P. - KOVÁČIK, Vladimír. Application of 2-substituted ethyl isothiocyanates and 2-aminothiols in the synthesis of the analogs of indole phytoalexin camalexin. In Collection of Czechoslovak Chemical Communications, 1999, vol. 64, p. 1448-1456. (0.550 - IF1998). (1999 - Current Contents). ISSN 0010-0765.

Citácie:

1. [1.1] FADDA, Ahmed - KANDEEL, Ezz Eldeen - EL-GENDY, Eman. Synthesis and antimicrobial evaluation of some new hydrazo, dihydropyridazinyl and triazolyl derivatives containing indole nucleus. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 2, pp. 122-130., Registrované v: WOS

ADCA161

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.

Citácie:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In *POLIMEROS-CIENCIA E TECNOLOGIA*. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS

ADCA162

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdena - KAČURÁKOVÁ, Marta - ANTAL, Miroslav. Quaternized xylans - synthesis and structural characterization. In *Carbohydrate Polymers*, 1994, vol. 24, no. 4, p. 301-308. ISSN 0144-8617.

Citácie:

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

2. [1.1] WANG, Xiaohui - LIU, Zhongming - WANG, Shoujuan - KONG, Fangong - YANG, Guihua - FATEHI, Pedram - LUCIA, Lucian A. Enhancing the Alkaline Peroxide Mechanical Pulp Strength by Cationization with 3-chloro-2-hydroxypropyl trimethyl ammonium chloride. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 6956-6970., Registrované v: WOS

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

ADCA163

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.

Citácie:

1. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo Rodrigues. Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In *BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS*, 2017, vol., no., pp. 475-511., Registrované v: WOS

2. [1.1] SALIMATH, P. - REVANAPPA, S. B. Cereal Pentosans: Structure-function relationship. In *TRENDS IN CARBOHYDRATE RESEARCH*. ISSN 0975-0304, 2016, vol. 8, no. 3, pp. 1-18., Registrované v: WOS

ADCA164

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] KACEM, Imen - MARTINEZ-SAEZ, Nuria - KALLEL, Fatma - BEN JEDDOU, Khawla - HELBERT, Claire Boisset - CHAABOUNI, Semia Ellouze - DOLORES DEL CASTILLO, Maria. Use of almond shell as food ingredient. In *EUROPEAN FOOD RESEARCH AND TECHNOLOGY*. ISSN 1438-2377, 2017, vol. 243, no. 12, pp. 2115-2126., Registrované v: WOS

2. [1.1] SINGH, V. K. - BANSAL, G. - NEGI, P. - BISHT, A. Characterization of Flexural and Impact Strength of Jute/Almond Hybrid Biocomposite. In *JOURNAL OF TESTING AND EVALUATION*. ISSN 0090-3973, 2017, vol. 45, no. 3, pp. 763-772., Registrované v: WOS

ADCA165

EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka. Effect of ultrasound on the extractability of corn bran hemicelluloses. In *Ultrasonics Sonochemistry*, 2002, vol. 9, p. 225-229. ISSN 1350-4177.

Citácie:

1. [1.2] Rutkowska, M., Namieśnik, J., & Konieczka, P. (2017). Ultrasound-assisted extraction. In *Pena-Pereira, F., Tobiszewski, M. (eds.). The Application of Green Solvents in Separation Processes (Elsevier, chapter 10, pp. 301-324)*, Registrované v: SCOPUS

2. [1.2] SUN, Qianyu - YANG, Guihua - CHEN, Jiachuan - HE, Ming - NIU, Sipeng. Effect of ultrasonic-assisted cold caustic extraction on the properties of CTMP poplar fibers. In *Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry*. ISSN

02533200, 2017-07-01, 49, 4, pp. 5-15., Registrované v: SCOPUS

3. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. *Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In Food and Feed Safety Systems and Analysis, 2017-10-16, pp. 173-191., Registrované v: SCOPUS*

ADCA166 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.

Citácie:

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

ADCA167 EBRINGEROVÁ, Anna - ANTAL, M. - ŠIMKOVIC, Ivan - MICKO, M.M. New aspects in cationization on lignocellulose materials. III. Influence of delignification on reactivity and extractability of TMAHP-hemicelluloses. In Journal of Applied Polymer Science, 1986, vol. 31, p. 303-308. ISSN 0021-8995.

Citácie:

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

ADCA168 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HEINZE, T. Hemicellulose. In Advances in polymer science, 2005, vol.186, p. 1-67. (7.320 - IF2004). (2005 - Current Contents). ISSN 0065-3195.

Citácie:

1. [1.1] ACHINAS, Spyridon - ACHINAS, Vasileios - EUVERINK, Gerrit Jan Willem. *A Technological Overview of Biogas Production from Biowaste. In ENGINEERING. ISSN 2095-8099, 2017, vol. 3, no. 3, pp. 299-307., Registrované v: WOS*

2. [1.1] ADJALLE, K. u - LAROSE, L-V. - BLEY, J. - BARNABE, S. *The effect of organic nitrogenous compound content and different pretreatments on agricultural lignocellulosic biomass characterization methods. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 3, pp. 1395-1406., Registrované v: WOS*

3. [1.1] ALI, Usman - BIJALWAN, Vandana - BASU, Santanu - KESARWANI, Atul Kumar - MAZUMDER, Koushik. *Effect of beta-glucan-fatty acid esters on microstructure and physical properties of wheat straw arabinoxylan films. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 161, no., pp. 90-98., Registrované v: WOS*

4. [1.1] AVANTHI, Althuri - KUMAR, Sanjeev - SHERPA, Knawang Chhunji - BANERJEE, Rintu. *Bioconversion of hemicelluloses of lignocellulosic biomass to ethanol: an attempt to utilize pentose sugars. In BIOFUELS-UK. ISSN 1759-7269, 2017, vol. 8, no. 4, pp. 431-444., Registrované v: WOS*

5. [1.1] BHATIA, Rakesh - GALLAGHER, Joe A. - GOMEZ, Leonardo D. - BOSCH, Maurice. *Genetic engineering of grass cell wall polysaccharides for biorefining. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, 2017, vol. 15, no. 9, pp. 1071-1092., Registrované v: WOS*

6. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. *Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of tucuma (Astrocaryum aculeatum), a commelinid monocotyledon from the family Arecaceae. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS*

7. [1.1] CHAPPELL, Todd C. - NAIR, Nikhil U. *Co-utilization of hexoses by a microconsortium of sugar-specific E-coli strains. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 10, pp. 2309-2318., Registrované v: WOS*

8. [1.1] CHEN, Da - HARRIS, Philip J. - SIMS, Ian M. - ZUJOVIC, Zoran - MELTON, Laurence D. *Polysaccharide compositions of collenchyma cell walls from celery (Apium graveolens L.) petioles. In BMC PLANT BIOLOGY. ISSN 1471-2229, 2017, vol. 17, no., pp., Registrované v: WOS*

9. [1.1] CHOWDHURY, Jamil - LUECK, Stefanie - RAJARAMAN, Jeyaraman - DOUCHKOV, Dimitar - SHIRLEY, Neil J. - SCHWERDT, Julian G. - SCHWEIZER, Patrick - FINCHER, Geoffrey B. - BURTON, Rachel A. - LITTLE, Alan. *Altered Expression of Genes Implicated in Xylan Biosynthesis Affects Penetration Resistance against Powdery Mildew. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS*

10. [1.1] COLODEL, Cristiane - DAS GRACAS BAGATIN, Rosane Maria - TAVARES, Talita Maria - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from pulp and peel of cubiu: A pectin-rich fruit. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 226-234., Registrované v: WOS
11. [1.1] COURET, Laetitia - IRLE, Mark - BELLONCLE, Christophe - CATHALA, Bernard. Extraction and characterization of cellulose nanocrystals from post-consumer wood fiberboard waste. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 5, pp. 2125-2137., Registrované v: WOS
12. [1.1] DAAS, Martinus J. A. - MURCIANO MARTINEZ, Patricia - VAN DE WEIJER, Antonius H. P. - VAN DER OOST, John - DE VOS, Willem M. - KABEL, Mirjam A. - VAN KRANENBURG, Richard. Biochemical characterization of the xylan hydrolysis profile of the extracellular endo-xylanase from *Geobacillus thermodenitrificans* T12. In BMC BIOTECHNOLOGY. ISSN 1472-6750, 2017, vol. 17, no., pp., Registrované v: WOS
13. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS
14. [1.1] DE CARVALHO, Danila Moraes - MARTINEZ-ABAD, Antonio - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronoarabinoxylan from sugarcane bagasse and straw. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 223-234., Registrované v: WOS
15. [1.1] DUPOIRON, Stephanie - LAMELOISE, Marie-Laure - POMMET, Marion - BENNACEUR, Ons - LEWANDOWSKI, Richard - ALLAIS, Florent - TEIXEIRA, Andreia R. S. - REMOND, Caroline - RAKOTOARIVONINA, Harivony. A novel and integrative process: From enzymatic fractionation of wheat bran with a hemicellulasic cocktail to the recovery of ferulic acid by weak anion exchange resin. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 105, no., pp. 148-155., Registrované v: WOS
16. [1.1] GENT, Stephen - TWEDT, Michael - GEROMETTA, Christina - ALMBERG, Evan. Introduction to Feedstocks. In THEORETICAL AND APPLIED ASPECTS OF BIOMASS TORREFACTION: FOR BIOFUELS AND VALUE-ADDED PRODUCTS, 2017, vol., no., pp. 17-39., Registrované v: WOS
17. [1.1] HUANG, Ju-qing - PANG, Mei-rong - LI, Guang-yu - WANG, Nan - JIN, Lu - ZHANG, Ying. Alleviation of cyclophosphamide-induced immunosuppression in mice by naturally acetylated hemicellulose from bamboo shavings. In FOOD AND AGRICULTURAL IMMUNOLOGY. ISSN 0954-0105, 2017, vol. 28, no. 2, pp. 328-342., Registrované v: WOS
18. [1.1] HUANG, Ju-qing - QI, Rui-ting - PANG, Mei-rong - LIU, Cong - LI, Guang-yu - ZHANG, Ying. Isolation, chemical characterization, and immunomodulatory activity of naturally acetylated hemicelluloses from bamboo shavings. In JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B. ISSN 1673-1581, 2017, vol. 18, no. 2, pp. 138-151., Registrované v: WOS
19. [1.1] HUTTERER, Christian - KLIBA, Gerhard - PUNZ, Manuel - FACKLER, Karin - POTTHAST, Antje. Enzymatic pulp upgrade for producing high-value cellulose out of a Kraft paper pulp. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 102, no., pp. 67-73., Registrované v: WOS
20. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
21. [1.1] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 17, pp. 11337-11405., Registrované v: WOS
22. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS
23. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS
24. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. Enzymatically Debranched Xylans in Graft Copolymerization. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS

25. [1.1] LIU, Liu - XIANG, Yeping - ZHANG, Ruiyun - LI, Bei - YU, Jianyong - FANG, Bin. *TEMPO-media Oxidation Combined with Laccase for Effective Degumming Pretreatment of Hemp Fibers*. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 8848-8861., Registrované v: WOS
26. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. *Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV*. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
27. [1.1] MA, Ruoxi - PEKAROVICOVA, Alexandra - FLEMING, Paul D. - HUSOVSKA, Veronika. *PREPARATION AND CHARACTERIZATION OF HEMICELLULOSE-BASED PRINTABLE FILMS*. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2017, vol. 51, no. 9-10, pp. 939-948., Registrované v: WOS
28. [1.1] MACHMUDAH, Siti - WAHYUDIONO - KANDA, Hideki - GOTO, Motonobu. *Hydrolysis of Biopolymers in Near-Critical and Subcritical Water*. In *WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT*, 2017, vol., no., pp. 69-107., Registrované v: WOS
29. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. *Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan*. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
30. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. *Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium *Herbinix hemicellulosilytica*-Six new xylanases, three arabinofuranosidases and one xylosidase*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS
31. [1.1] PADAYACHEE, A. - DAY, L. - HOWELL, K. - GIDLEY, M. J. *Complexity and health functionality of plant cell wall fibers from fruits and vegetables*. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 1, pp. 59-81., Registrované v: WOS
32. [1.1] RIVAS, Sandra - SANTOS, Valentin - PARAJO, Juan Carlos. *Aqueous fractionation of hardwood: selective glucuronoxylan solubilisation and purification of the reaction products*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2017, vol. 92, no. 2, pp. 367-374., Registrované v: WOS
33. [1.1] RIZWAN, Hafiz Muhammad - AKHTAR, Masood - IQBAL, Zafar - AWAIS, Mian Muhammad - ANWAR, Muhammad Irfan. *Evaluation of Avena sativa Derived Arabinoxylans as Native Biological Response Modifiers in Broilers*. In *INTERNATIONAL JOURNAL OF AGRICULTURE AND BIOLOGY*. ISSN 1560-8530, 2017, vol. 19, no. 4, pp. 834-840., Registrované v: WOS
34. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN, Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. *Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes*. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS
35. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. *Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa* Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS
36. [1.1] SCHULTE, Marten F. - TOZAKIDIS, Iasson E. P. - JOSE, Joachim. *Autotransporter-Based Surface Display of Hemicellulases on *Pseudomonas putida*: Whole-Cell Biocatalysts for the Degradation of Biomass*. In *CHEMCATCHEM*. ISSN 1867-3880, 2017, vol. 9, no. 20, pp. 3955-3964., Registrované v: WOS
37. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. *Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
38. [1.1] SVARD, Antonia - BRANNVALL, Elisabet - EDLUND, Ulrica. *Rapeseed straw polymeric hemicelluloses obtained by extraction methods based on severity factor*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 305-315., Registrované v: WOS
39. [1.1] WALKER, Johnnie A. - PATTATHIL, Sivakumar - BERGEMAN, Lai F. - BEEBE, Emily T. - DENG, Kai - MIRZAI, Maryam - NORTHEN, Trent R. - HAHN, Michael G. - FOX, Brian G. *Determination of glycoside hydrolase specificities during hydrolysis of plant cell walls using glycome profiling*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no.,

pp., Registrované v: WOS

40. [1.1] XIONG, Wenlong - QIU, Xueqing - YANG, Dongjie - ZHONG, Ruisheng - QIAN, Yong - LI, Yuanyuan - WANG, Huan. A simple one-pot method to prepare UV-absorbent lignin/silica hybrids based on alkali lignin from pulping black liquor and sodium metasilicate. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2017, vol. 326, no., pp. 803-810., Registrované v: WOS

41. [1.1] YAN, Yu-Huan - LI, Hui-Ling - REN, Jun-Li - LIN, Qi-Xuan - PENG, Feng - SUN, Run-Cang - CHEN, Ke-Fu. Xylo-sugars production by microwave-induced hydrothermal treatment of corncob: Trace sodium hydroxide addition for suppression of side effects. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 101, no., pp. 36-45., Registrované v: WOS

42. [1.1] ZEINALY, Farhad - SARAELIAN, Ahmadsreza - GABOV, Konstantin - FARDIM, Pedro. DETERMINATION OF CARBOHYDRATES IN SUGARCANE BAGASSE PULP IN DIFFERENT TCF BLEACHING SEQUENCES. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2017, vol. 51, no. 1-2, pp. 45-53., Registrované v: WOS

43. [1.1] ZHAO, Xuebing - QI, Feng - LIU, Dehua. Hierarchy Nano- and Ultrastructure of Lignocellulose and Its Impact on the Bioconversion of Cellulose. In *NANOTECHNOLOGY FOR BIOENERGY AND BIOFUEL PRODUCTION*. ISSN 2196-6982, 2017, vol., no., pp. 117-151., Registrované v: WOS

44. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In *ENERGY TECHNOLOGY*. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS

45. [1.2] MAHAPATRA, Samhita - MANIAN, Ramesh Pathy. Bioethanol from lignocellulosic feedstock: A review. In *Research Journal of Pharmacy and Technology*. ISSN 09743618, 2017-08-01, 10, 8, pp. 2750-2758., Registrované v: SCOPUS

46. [1.2] MARULANDA, Valentina Aristizábal - GUTIÉRREZ, Christian David Botero - GONZÁLEZ, Ángela Andrea - GIRALDO, Oscar Hernán - ALZATE, Carlos Ariel Cardona. Using the lignocellulosic biomass to obtain polyhydroxybutyrate as a biopolymer under the biorefinery concept. In *Biopolymers: Structure, Performance and Applications*, 2017-01-01, pp. 115-138., Registrované v: SCOPUS

47. [1.2] MONIZ, P. - DUARTE, L. C. - PEREIRA, H. - CARVALHEIRO, F. Rice straw hemicelluloses: Fractionation processes and potential added-value products. In *Rice and Rice Straw: Production, Cultivation and Uses*, 2017-01-01, pp. 55-88., Registrované v: SCOPUS

48. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

49. [1.2] Wang, S., & Luo, Z. (2017). In *Pyrolysis of biomass* (Walter de Gruyter, pp. 1-255), Registrované v: SCOPUS

ADCA169 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.

Citácie:

1. [1.1] FARHAT, Wissam - VENDITTI, Richard A. - HUBBE, Martin - TAHA, Mohamed - BECQUART, Frederic - AYOUB, Ali. A Review of Water-Resistant Hemicellulose-Based Materials: Processing and Applications. In *CHEMSUSCHEM*. ISSN 1864-5631, 2017, vol. 10, no. 2, pp. 305-323., Registrované v: WOS

2. [1.1] ZHAO, Xianhai - TONG, Tingting - LI, HuiLing - LU, Haojun - REN, Junli - ZHANG, Aiping - DENG, Xiaomei - CHEN, Xiaoyang - WU, Ai-Min. Characterization of hemicelluloses from *Neolamarckia cadamba* (Rubiaceae) during xylogenesis. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 333-339., Registrované v: WOS

ADCA170 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. (1.578 - IF2007). (2008 - Current Contents). ISSN 0141-8130.

Citácie:

1. [1.1] BARBIERI, Shayla Fernanda - RUTHES, Andrea Caroline - DE OLIVEIRA PETKOWICZ, Carmen Lucia - BUENO DE GODOY, Rossana Catie - SASSAKI, Guilherme Lanzi - SANTANA FILHO, Arquimedes Paixao - MEIRA SILVEIRA, Joana Lea. Extraction, purification and structural characterization of a galactoglucomannan from the gabioba fruit (*Campomanesia xanthocarpa* Berg), Myrtaceae family. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 887-895., Registrované v: WOS

2. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. Polysaccharides in Human Health Care. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN

1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS

3. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. *A Critical Review on Hemicellulose Pyrolysis*. In *ENERGY TECHNOLOGY*. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS

4. [1.2] LEHTONEN, Mari - TERÄSLAHTI, Suvi - XU, Chunlin - YADAV, Madhav P. - LAMPI, Anna Maija - MIKKONEN, Kirsii S. *Spruce galactoglucomannans inhibit lipid oxidation in rapeseed oil-in-water emulsions*. In *Food Hydrocolloids*. ISSN 0268005X, 2016-07-01, 58, pp. 255-266., Registrované v: SCOPUS

5. [1.2] YVONNE, Konkol - HEIKKI, Vuorikoski - JOHANNA, Tuomela - BJARNE, Holmbom - JENNI, Bernoulli. *Galactoglucomannan-rich hemicellulose extract from Norway spruce (Picea abies) exerts benefeffects on chronic prostatic inflammation and lower urinary tract symptoms in vivo*. In *International Journal of Biological Macromolecules*. ISSN 01418130, 2017-08-01, 101, pp. 222-229., Registrované v: SCOPUS

ADCA171 EBRINGEROVÁ, Anna - HROMÁDKOVÁ, Zdenka - HŘÍBALOVÁ, V. - MASON, T.J. *Effect of ultrasound on the immunogenic corn cob xylan*. In *Ultrasonics Sonochemistry*, 1997, vol. 4, p.311-315. (1.373 - IF1996). (1997 - Current Contents). ISSN 1350-4177.

Citácie:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. *Development of xylan and xylan/gelatin biofilms for production of biodegradable packages*. In *POLIMEROS-CIENCIA E TECNOLOGIA*. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS

ADCA172 EBRINGEROVÁ, Anna. *Structural diversity and application potential of hemicelluloses*. In *Macromolecular Symposia*, 2006, vol. 232, p. 1-12. (0.913 - IF2005). ISSN 1022-1360.

Citácie:

1. [1.1] DE SOUZA, Matheus O. - GARRETT, Rafael - PEREIRA, Marcelo M. - MIRANDA, Leandro S. M. *Use of Kappaphycus alvarezii Biomass for the Production of Carbohydrate Isopropylidene-Ketal-Based Biocrude*. In *ENERGY & FUELS*. ISSN 0887-0624, 2017, vol. 31, no. 9, pp. 9422-9428., Registrované v: WOS

2. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. *Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization*. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS

3. [1.1] GALKIN, Maxim V. - DI FRANCESCO, Davide - EDLUND, Ulrica - SAMEC, Joseph S. M. *Sustainable sources need reliable standards*. In *FARADAY DISCUSSIONS*. ISSN 1359-6640, 2017, vol. 202, no., pp. 281-301., Registrované v: WOS

4. [1.1] GUNAWAN, Christa - XUE, Saisi - PATTATHIL, Sivakumar - SOUSA, Leonardo da Costa - DALE, Bruce E. - BALAN, Venkatesh. *Comprehensive characterization of non-cellulosic recalcitrant cell wall carbohydrates in unhydrolyzed solids from AFEX-pretreated corn stover*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

5. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. *Preparation and Characterization of Water-Soluble Xylan Ethers*. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS

6. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. *Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

7. [1.1] KAPRELYANTS, L. - ZHURLOVA, O. - SHPYRKO, T. - POZHITKOVA, L. *XYLOOLIGOSACCHARIDES FROM AGRICULTURAL BY-PRODUCTS:*

CHARACTERISATION, PRODUCTION AND PHYSIOLOGICAL EFFECTS. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-UKRAINE*. ISSN 2073-8684, 2017, vol. 11, no. 3, pp. 25-34., Registrované v: WOS

8. [1.1] LI, T. - REMON, J. - SHUTTLEWORTH, P. S. - JIANG, Z. - FAN, J. - CLARK, J. H. - BUDARIN, V. L. *Controllable production of liquid and solid biofuels by doping-free, microwave-assisted, pressurised pyrolysis of hemicellulose*. In *ENERGY CONVERSION AND MANAGEMENT*. ISSN 0196-8904, 2017, vol. 144, no., pp. 104-113., Registrované v: WOS

9. [1.1] LITTUNEN, Kuisma - MAI-GISONDI, Galina - SEPPALA, Jukka - MASTER, Emma R. *Enzymatically Debranched Xylans in Graft Copolymerization*. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 5, pp. 1634-1641., Registrované v: WOS

10. [1.1] LOLX, Christophe - HUYBRECHTS, Michiel - VANGRONSVELD, Jaco - GIELEN,

- Marijke - KEUNEN, Els - CUYPERS, Ann. *Reciprocal Interactions between Cadmium-Induced Cell Wall Responses and Oxidative Stress in Plants*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
11. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. *Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV*. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
12. [1.1] MA, Ruoxi - PEKAROVICOVA, Alexandra - FLEMING, Paul D. - HUSOVSKA, Veronika. *PREPARATION AND CHARACTERIZATION OF HEMICELLULOSE-BASED PRINTABLE FILMS*. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2017, vol. 51, no. 9-10, pp. 939-948., Registrované v: WOS
13. [1.1] MALEKI, Laleh - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. *Synthesis of full interpenetrating hemicellulose hydrogel networks*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 170, no., pp. 254-263., Registrované v: WOS
14. [1.1] MIHIRETU, Gezahegn T. - BRODIN, Malin - CHIMPHANGO, Annie F. - OYAAS, Karin - HOFF, Bard H. - GORGENS, Johann F. *Single-step microwave-assisted hot water extraction of hemicelluloses from selected lignocellulosic materials A biorefinery approach*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 241, no., pp. 669-680., Registrované v: WOS
15. [1.1] RANZI, Eliseo - DEBIAGI, Paulo Eduardo Amaral - FRASSOLDATI, Alessio. *Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note I: Kinetic Mechanism of Biomass Pyrolysis*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 4, pp. 2867-2881., Registrované v: WOS
16. [1.1] RYTIOJA, Johanna - HILDEN, Kristiina - DI FALCO, Marcos - ZHOU, Miaomiao - AGUILAR-PONTES, Maria Victoria - SIETIO, Outi-Maaria - TSANG, Adrian - DE VRIES, Ronald P. - MAKELA, Miia R. *The molecular response of the white-rot fungus Dichomitus squalens to wood and non-woody biomass as examined by transcriptome and exoproteome analyses*. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 3, pp. 1237-1250., Registrované v: WOS
17. [1.1] SHROTRI, Abhijit - KOBAYASHI, Hirokazu - FUKUOKA, Atsushi. *Catalytic Conversion of Structural Carbohydrates and Lignin to Chemicals*. In *ADVANCES IN CATALYSIS, VOL 60*. ISSN 0360-0564, 2017, vol. 60, no., pp. 59-123., Registrované v: WOS
18. [1.1] SPORCK, Daniele - REINOSO, Felipe A. M. - RENCORET, Jorge - GUTIERREZ, Ana - DEL RIO, Jose C. - FERRAZ, Andre - MILAGRES, Adriane M. F. *Xylan extraction from pretreated sugarcane bagasse using alkaline and enzymatic approaches*. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
19. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. *Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Plantago ovata Using Gamma Irradiation Spectroscopy*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
20. [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. *Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties*. In *MATERIALS*. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
21. [1.2] ASHTER, Syed Ali. *Technology and Applications of Polymers Derived from Biomass*. In *Technology and Applications of Polymers Derived from Biomass, 2017-11-18*, pp. 1-272., Registrované v: SCOPUS
22. [1.2] BOKHARY, A. - CUI, L. - LIN, H. J. - LIAO, B. Q. *A review of membrane technologies for integrated forest biorefinery*. In *Journal of Membrane Science and Research*, 2017-06-01, 3, 3, pp. 120-141., Registrované v: SCOPUS
23. [1.2] GABRIEL, Lars - HEINZE, Thomas. *Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties*. In *Current Advances in Biopolymer Processing and Characterization, 2017-01-01*, pp. 49-75., Registrované v: SCOPUS
24. [1.2] MANJULA, B. - BABUL REDDY, A. - JAYARAMUDU, T. - SADIKU, E. R. - OWONUBI, S. J. - AGBOOLA, Oluranti - MOKRANI, Tauhami. *Hydrogels and its nanocomposites from renewable resources: Biotechnological and biomedical applications*. In *Handbook of Composites from Renewable Materials, 2017-01-01*, 1-8, pp. 67-95., Registrované v: SCOPUS
25. [1.2] SALIMATH, P. V. - REVANAPPA, S. B. *Cereal Pentosans: Structure-function relationship*. In *Trends in Carbohydrate Research, 2016-01-01*, 8, 3, pp. 1-18., Registrované v: SCOPUS
26. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. *Effect of hydrothermal processing on hemicellulose structure*. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01*, pp. 45-94., Registrované v: SCOPUS

726-733. ISSN 0031-1340.

Citácie:

1. [1.1] IRMAK, Sibel. *Biomass as Raw Material for Production of High-Value Products. In BIOMASS VOLUME ESTIMATION AND VALORIZATION FOR ENERGY*, 2017, vol., no., pp. 201-225., Registrované v: WOS

ADCA174

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. (0.956 - IF1997). (1998 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. *Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo Phyllostachys aurea. In CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS

2. [1.1] MITTAL, Rochak - TAVANANDI, Hrishikesh A. - MANTRI, Vaibhav A. - RAGHAVARAO, K. S. M. S. *Ultrasound assisted methods for enhanced extraction of phycobiliproteins from marine macro-algae, Gelidium pusillum (Rhodophyta). In ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 38, no., pp. 92-103., Registrované v: WOS

3. [1.1] PANIZZO, Cecilia - FERNANDEZ, Paula - COLOMBATTO, Dario - CIANCIA, Marina - VEGA, Andrea. *Anatomy, nutritional value and cell wall chemical analysis of foliage leaves of Guadua chacoensis (Poaceae, Bambusoideae, Bambuseae), a promising source of forage. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 4, pp. 1349-1358., Registrované v: WOS

4. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN, Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. *Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. In GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS

ADCA175

EBRINGEROVÁ, Anna - BELICOVA, A. - EBRINGER, L. Antimicrobial activity of quaternized heteroxylans. In *World journal of microbiology and biotechnology*, 1994, vol. 10, p. 640-644. (0.226 - IF1993). ISSN 0959-3993.

Citácie:

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

2. [1.2] ZHOU, Shuai - MIAO, Qingxian - HUANG, Liulian - CHEN, Lihui. *Research Progress in Hemicellulose-based Functional Materials. In Chemistry and Industry of Forest Products*. ISSN 02532417, 2017-12-28, 37, 6, pp. 10-18., Registrované v: SCOPUS

ADCA176

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. (0.987 - IF1999). (2000 - Current Contents). ISSN 0144-8617.

Citácie:

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

ADCA177

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. (1.065 - IF2009). (2010 - Current Contents). ISSN 1895-1066.

Citácie:

1. [1.1] AGCAM, E. - AKYILDIZ, A. - BALASUBRAMANIAM, V. M. *Optimization of anthocyanins extraction from black carrot pomace with thermosonication. In FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 237, no., pp. 461-470., Registrované v: WOS

2. [1.1] ANGEL SANCHEZ-MADRIGAL, Miguel - ABEL AMAYA-GUERRA, Carlos - QUINTERO-RAMOS, Armando - GABRIEL BAEZ-GONZALEZ, Juan - ADRIANA NUNEZ-GONZALEZ, Maria - GRACIELA RUIZ-GUTIERREZ, Martha - ANTONIO GARZON-TIZNADO, Jose. *Ultrasound-assisted extraction of fructans from agave (Agave tequilana Weber var. azul) at different ultrasound powers and solid-liquid ratios. In FOOD SCIENCE AND TECHNOLOGY*. ISSN 0101-2061, 2017, vol. 37, no. 2, pp. 261-268., Registrované v: WOS

3. [1.1] DEETAEE, Pawinee - TSENG, Kwanrudee - PASUPHAN, Chanathinart - PANYA, Atikorn - METHACANON, Pawadee - TEMTHAWEE, Waranya - SUPHANTHARIKA, Manop. Ultrasonic Extraction, Antioxidant and Anti-glycation Activities of Polysaccharides from *Gynura Divaricata* Leaves. In *CHIANG MAI JOURNAL OF SCIENCE*. ISSN 0125-2526, 2017, vol. 44, no. 1, pp. 144-156., Registrované v: WOS
4. [1.1] FLOREZ-FERNANDEZ, Noelia - GONZALEZ MUNOZ, Maria Jesus. Ultrasound-Assisted Extraction of Bioactive Carbohydrates. In *WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT*, 2017, vol., no., pp. 317-331., Registrované v: WOS
5. [1.1] MORE, Snehal B. - GOGATE, Parag R. - WAGHMARE, Jyotsna S. Intensification of acid catalyzed synthesis of tricaprylin using ultrasound pretreatment. In *CHEMICAL ENGINEERING AND PROCESSING*. ISSN 0255-2701, 2017, vol. 120, no., pp. 317-329., Registrované v: WOS
6. [1.1] NGO DINH VU - HANG THI TRAN - NHI DINH BUI - CUONG DUC VU - HUNG VIET NGUYEN. Lignin and Cellulose Extraction from Vietnam's Rice Straw Using Ultrasound-Assisted Alkaline Treatment Method. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422, 2017, vol., no., pp., Registrované v: WOS
7. [1.1] NGO THI HOAI DUONG - NGO DANG NGHIA. Effects of low-frequency ultrasound on heterogenous deacetylation of chitin. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 1604-1610., Registrované v: WOS
8. [1.1] SANCHEZ-MADRIGAL, M. A. - BELTRAN-VERDUGO, V. R. - QUINTERO-RAMOS, A. - AMAYA-GUERRA, C. A. - MELENDEZ-PIZARRO, C. O. - RUIZ-GUTIERREZ, M. G. - LARDIZABAL-GUTIERREZ, D. - NEDER-SUAREZ, D. - ORTIZ-BASURTO, R. I. EFFECT OF ULTRASOUND ON THE CARBOHYDRATE EXTRACTION FROM SOTOL PLANTS (*Dasyliroa wheeleri*) AT DIFFERENT POWERS AND TEMPERATURES. In *REVISTA MEXICANA DE INGENIERIA QUIMICA*. ISSN 1665-2738, 2017, vol. 16, no. 3, pp. 845-859., Registrované v: WOS
9. [1.2] DAI, Lin - ZHANG, Yong - HU, Chi - QIAN, Hongliang - WANG, Zhixiang. Mathematical modeling for ultrasonic-assisted extraction of arctigenin from acid hydrolyzed *Fructus Arctii*. In *Journal of Southeast University (English Edition)*. ISSN 10037985, 2017-09-01, 33, 3, pp. 362-369., Registrované v: SCOPUS
10. [1.2] MICHALAK, Izabela - DMYTRYK, Agnieszka - GODLEWSKA, Katarzyna - WILK, Radosław - CHOJNACKA, Katarzyna. Marine polysaccharides as biostimulants of plant growth. In *Marine Glycobiology: Principles and Applications*, 2016-10-14, pp. 293-309., Registrované v: SCOPUS

ADCA178

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. (0.987 - IF1999). (2000 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In *POLIMEROS-CIENCIA E TECNOLOGIA*. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS
2. [1.1] BASILE, Lucia - TUGNOLI, Alessandro - COZZANI, Valerio. Influence of Macrocomponents on the Pyrolysis Heat Demand of Lignocellulosic Biomass. In *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH*. ISSN 0888-5885, 2017, vol. 56, no. 22, pp. 6432-6440., Registrované v: WOS
3. [1.1] BHATIA, Rakesh - GALLAGHER, Joe A. - GOMEZ, Leonardo D. - BOSCH, Maurice. Genetic engineering of grass cell wall polysaccharides for biorefining. In *PLANT BIOTECHNOLOGY JOURNAL*. ISSN 1467-7644, 2017, vol. 15, no. 9, pp. 1071-1092., Registrované v: WOS
4. [1.1] BULLOCK, Avery - ZIERVOGEL, Kai - GHOBRIAL, Sherif - SMITH, Shannon - MCKEE, Brent - ARNOSTI, Carol. A Multi-season Investigation of Microbial Extracellular Enzyme Activities in Two Temperate Coastal North Carolina Rivers: Evidence of Spatial but Not Seasonal Patterns. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleracea*). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS
6. [1.1] CHENG, H. N. - FURTADO, Roselayne Ferro - ALVES, Carlucio Roberto - ROCHA

- BASTOS, Maria do Socorro - KIM, Sanghoon - BISWAS, Atanu. Novel polyurethanes from xylan and TDI: Preparation and characterization. In *INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION*. ISSN 1023-666X, 2017, vol. 22, no. 1, pp. 35-42., Registrované v: WOS
7. [1.1] CHOI, Yong-Seok - LEE, Jae-Kang - LEE, Mi-Gi - LEE, SeungGwan - JEONG, Hee-Young - KANG, Hee. Splenic T cell and intestinal IgA responses after supplementation of soluble arabinoxylan-enriched wheat bran in mice. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2017, vol. 28, no., pp. 246-253., Registrované v: WOS
8. [1.1] CORREA, Catalina Rodriguez - OTTO, Thomas - KRUSE, Andrea. Influence of the biomass components on the pore formation of activated carbon. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2017, vol. 97, no., pp. 53-64., Registrované v: WOS
9. [1.1] DA COSTA URTIGA, Silvana Cartaxo - AZEVEDO DE LUCENA GABI, Camilla Aquino - DE ARAUJO ELEAMEN, Giovanna Rodrigues - SOUZA, Bartolomeu Santos - FREIRE PESSOA, Hilzeth de Luna - MARCELINO, Henrique Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - TABOSA DO EGITO, Eryvaldo Socrates - OLIVEIRA, Elquio Eleamen. Preparation and characterization of safe microparticles based on xylan. In *DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY*. ISSN 0363-9045, 2017, vol. 43, no. 10, pp. 1601-1609., Registrované v: WOS
10. [1.1] DROZD, N. N. - KUZNETSOVA, S. A. - LEVDANSKY, V. A. - MIKHAILENKO, M. A. Effect of Xylan Sulfates on Coagulation of Human Blood Plasma. In *BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE*. ISSN 0007-4888, 2017, vol. 164, no. 2, pp. 158-161., Registrované v: WOS
11. [1.1] DUSSAN, Karla - DOOLEY, Stephen - MONAGHAN, Rory. Integrating compositional features in model compounds for a kinetic mechanism of hemicellulose pyrolysis. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2017, vol. 328, no., pp. 943-961., Registrované v: WOS
12. [1.1] FALCOZ-VIGNE, Lea - OGAWA, Yu - MOLINA-BOISSEAU, Sonia - NISHIYAMA, Yoshiharu - MEYER, Valerie - PETIT-CONIL, Michel - MAZEAU, Karim - HEUX, Laurent. Quantification of a tightly adsorbed monolayer of xylan on cellulose surface. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 9, pp. 3725-3739., Registrované v: WOS
13. [1.1] GAO, Boliang - JIN, Min - LI, Li - QU, Wu - ZENG, Runying. Genome Sequencing Reveals the Complex Polysaccharide-Degrading Ability of Novel Deep-Sea Bacterium *Flammeovirga Pacifica* WPAG1. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
14. [1.1] GATARD, S. - PLANTIER-ROYON, R. - REMOND, C. - MUZARD, M. - KOWANDY, C. - BOUQUILLON, S. Preparation of new beta-D-xyloside- and beta-D-xylobioside-based ionic liquids through chemical and/or enzymatic reactions. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 451, no., pp. 72-80., Registrované v: WOS
15. [1.1] GRANTHAM, Nicholas J. - WURMAN-RODRICH, Joel - TERRETT, Oliver M. - LYCZAKOWSKI, Jan J. - STOTT, Katherine - IUGA, Dinu - SIMMONS, Thomas J. - DURAND-TARDIF, Mylene - BROWN, Steven. P. - DUPREE, Ray - BUSSE-WICHER, Marta - DUPREE, Paul. An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 11, pp. 859-865., Registrované v: WOS
16. [1.1] HATFIELD, Ronald D. - RANCOUR, David M. - MARITA, Jane M. Grass Cell Walls: A Story of Cross-Linking. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 7, no., pp., Registrované v: WOS
17. [1.1] HETTRICH, Kay - DRECHSLER, Ulrich - LOTH, Fritz - VOLKERT, Bert. Preparation and Characterization of Water-Soluble Xylan Ethers. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 4, pp., Registrované v: WOS
18. [1.1] KOEGELENBERG, Danika - CHIMPHANGO, Annie F. A. Effects of wheat-bran arabinoxylan as partial flour replacer on bread properties. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1606-1613., Registrované v: WOS
19. [1.1] KUGE, Takayuki - WATANABE, Akira - HASEGAWA, Satoshi - TERAMOTO, Haruhiko - INUI, Masayuki. Functional analysis of arabinoxylan degradation by a xylanase of *Corynebacterium alkanolyticum* for arabinoxylan utilization in *Corynebacterium glutamicum*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 5019-5032., Registrované v: WOS
20. [1.1] LISOV, Alexander V. - BELOVA, Oksana V. - LISOVA, Zoya A. - VINOKUROVA, Nataliy G. - NAGEL, Alexey S. - ANDREEVA-KOVALEVSKAYA, Zhanna I. - BUDARINA, Zhanna I. - NAGORNYKH, Maxim O. - ZAKHAROVA, Marina V. - SHADRIN, Andrey M. - SOLONIN, Alexander S. - LEONTIEVSKY, Alexey A. Xylanases of *Cellulomonas flavigena*: expression, biochemical characterization, and biotechnological potential. In *AMB EXPRESS*. ISSN 2191-

0855, 2017, vol. 7, no., pp., Registrované v: WOS

21. [1.1] MACHMUDAH, Siti - WAHYUDIONO - KANDA, Hideki - GOTO, Motonobu.

Hydrolysis of Biopolymers in Near-Critical and Subcritical Water. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp.

69-107., Registrované v: WOS

22. [1.1] MADEIRA, Jose Valdo - CONTESINI, Fabiano Jares - CALZADO, Felipe - RUBIO, Marcelo Ventura - ZUBIETA, Mariane Paludetti - LOPES, Danielle Branta - DE MELO, Ricardo

Rodrigues. *Agro-Industrial Residues and Microbial Enzymes: An Overview on the Eco-Friendly Bioconversion into High Value-Added Products. In BIOTECHNOLOGY OF MICROBIAL*

ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS, 2017, vol., no., pp. 475-511., Registrované v: WOS

23. [1.1] MAO, Jia - ABUSHAMMALA, Hatem - HETTEGGER, Hubert - ROSENAU, Thomas - LABORIE, Marie-Pierre. *Imidazole, a New Tunable Reagent for Producing Nanocellulose, Part I: Xylan-Coated CNCs and CNFs. In POLYMERS. ISSN 2073-4360*, 2017, vol. 9, no. 10, pp.,

Registrované v: WOS

24. [1.1] MATHEW, Sindhu - KARLSSON, Eva Nordberg - ADLERCREUTZ, Patrick. *Extraction of soluble arabinoxylan from enzymatically pretreated wheat bran and production of short xylo-*

oligosaccharides and arabinoxyloligosaccharides from arabinoxylan by glycoside hydrolase family 10 and 11 endoxylanases. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017,

vol. 260, no., pp. 53-61., Registrované v: WOS

25. [1.1] MIAO, Youzhi - LI, Pan - LI, Guangqi - LIU, Dongyang - DRUZHININA, Irina S. - KUBICEK, Christian P. - SHEN, Qirong - ZHANG, Ruifu. *Two degradation strategies for overcoming the recalcitrance of natural lignocellulosic xylan by polysaccharides-binding GH10 and GH11 xylanases of filamentous fungi. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912*, 2017, vol. 19, no. 3, pp. 1054-1064., Registrované v: WOS

26. [1.1] NOEMI GERSCHENSON, Lia - MARIA ROJAS, Ana - NOEMI FISSORE, Eliana. *CARBOHYDRATES. In NUTRACEUTICAL AND FUNCTIONAL FOOD COMPONENTS: EFFECTS OF INNOVATIVE PROCESSING TECHNIQUES*, 2017, vol., no., pp. 39-101.,

Registrované v: WOS

27. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. *Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436*, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS

28. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. *Characterization of xylan from rice bran and finger millet seed coat for functional food applications. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210*, 2017,

vol. 75, no., pp. 296-305., Registrované v: WOS

29. [1.1] PFRENGLE, Fabian. *Synthetic plant glycans. In CURRENT OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931*, 2017, vol. 40, no., pp. 145-151., Registrované v: WOS

30. [1.1] QI, Yunchuan - YANG, Meiling - XU, Wenhui - HE, Sha - MEN, Yi. *Natural polysaccharides-modified graphene oxide for adsorption of organic dyes from aqueous solutions. In JOURNAL OF COLLOID AND INTERFACE SCIENCE. ISSN 0021-9797*, 2017, vol. 486, no.,

pp. 84-96., Registrované v: WOS

31. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. *Safety assessment of xylan by a 90-day feeding study in rats. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300*, 2017, vol. 85,

no., pp. 1-6., Registrované v: WOS

32. [1.1] RAMOS, Ana - SOUSA, Sonia - EVTUGUIN, Dmitry V. - GARNELAS, Jose A. F. *Functionalized xylans in the production of xylan-coated paper laminates. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148*, 2017, vol. 117, no., pp. 89-96., Registrované v: WOS

33. [1.1] SAURAJ - KUMAR, S. Uday - GOPINATH, P. - NEGI, Yuvraj Singh. *Synthesis and bio-evaluation of xylan-5-fluorouracil-1-acetic acid conjugates as prodrugs for colon cancer treatment. In CARBOHYDRATE POLYMERS. ISSN 0144-8617*, 2017, vol. 157, no., pp. 1442-1450., Registrované v: WOS

34. [1.1] SENF, Deborah - RUPRECHT, Colin - DE KRUIJFF, Goswinus H. M. - SIMONETTI, Sebastian O. - SCHUHMACHER, Frank - SEEBERGER, Peter H. - PFRENGLE, Fabian. *Active Site Mapping of Xylan-Deconstructing Enzymes with Arabinoxylan Oligosaccharides Produced by Automated Glycan Assembly. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539*, 2017,

vol. 23, no. 13, pp. 3197-3205., Registrované v: WOS

35. [1.1] SENTHILKUMAR, P. - DAWN, S. S. - SAMANVITHA, K. Sree - KUMAR, S. Sanjay - KUMAR, G. Narendra - SAMROT, Antony V. *Optimization and characterization of poly[R]hydroxyalkanoate of Pseudomonas aeruginosa SU-1 to utilize in nanoparticle synthesis for curcumin delivery. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-*

- 8181, 2017, vol. 12, no., pp. 292-298., Registrované v: WOS
36. [1.1] SILVA, Felipe F. - BRITES ALVES, Ana Maria - SERRANO, Maria de Lurdes - MENDES DE SOUSA, Antonio P. Isolation and purification of concentrated and non-concentrated hemicellulose alkaline extracts. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 173, no., pp. 233-239., Registrované v: WOS
37. [1.1] SMITH, Peter J. - WANG, Hsin-Tzu - YORK, William S. - PENA, Maria J. - URBANOWICZ, Breeanna R. Designer biomass for next-generation biorefineries: leveraging recent insights into xylan structure and biosynthesis. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
38. [1.1] TOMOO, Koji - MIKI, Yasuhiro - MORIOKA, Hideaki - SEIKE, Kiho - ISHIDA, Toshimasa - IKENISHI, Sadao - MIYAMOTO, Katsushiro - HASEGAWA, Tomokazu - YAMANO, Akihito - HAMADA, Kensaku - TSUJIBO, Hiroshi. Crystal structure of the solute-binding protein BxIE from *Streptomyces thermoviolaceus* OPC-520 complexed with xylobiose. In JOURNAL OF BIOCHEMISTRY. ISSN 0021-924X, 2017, vol. 161, no. 6, pp. 493-501., Registrované v: WOS
39. [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
40. [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase from *Bacillus halodurans* C-125. In JOURNAL OF APPLIED GLYCOSCIENCE. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS
41. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of *Dendrobium officinale* and anti-angiogenesis activities of its sulfated derivative. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS
42. [1.1] ZHANG, Xueqin - WANG, Huihui - LIU, Chuanfu - ZHANG, Aiping - REN, Junli. Synthesis of Thermoplastic XylanLactide Copolymer with AmidineMediated Organocatalyst in Ionic Liquid. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
43. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In PLANT AND CELL PHYSIOLOGY. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174., Registrované v: WOS
44. [1.1] ZHOU, Xuesong - LI, Weibin - SI, Jinghang. Development of pH sensitive polyacrylic acid grafted hemicellulose hydrogels for colon-specific controlled drug delivery. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 259, no., pp. E161-E161., Registrované v: WOS
45. [1.1] ZHU, Xiao Fang - WAN, Jiang Xue - WU, Qi - ZHAO, Xu Sheng - ZHENG, Shao Jian - SHEN, Ren Fang. PARVUS affects aluminium sensitivity by modulating the structure of glucuronoxylan in *Arabidopsis thaliana*. In PLANT CELL AND ENVIRONMENT. ISSN 0140-7791, 2017, vol. 40, no. 9, pp. 1916-1925., Registrované v: WOS
46. [1.2] Ashter, S. A. (2017). In Technology and applications of polymers derived from biomass (Elsevier, pp. 1-272), Registrované v: SCOPUS
47. [1.2] CHEN, Jiachuan - JIA, Tingpeng - YANG, Guihua - HE, Ming. Pre-extraction of Hemicelluloses from poplar chips and its effect on kraft pulping. In Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry. ISSN 02533200, 2017-03-01, 49, 2, pp. 30-40., Registrované v: SCOPUS
48. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
49. [1.2] DUSSAN, K. - DOOLEY, S. - MONAGHAN, R. F.D. New pseudo-components of hemicellulose and lignin. In European Biomass Conference and Exhibition Proceedings, 2017-06-01, 2017, 25thEUBCE, pp. 971-979., Registrované v: SCOPUS
50. [1.2] GENG, Wenhui - VENDITTI, Richard A. - PAWLAK, Joel J. - CHANG, Hou Min. Carboxymethylation of hemicellulose and hemicellulose-based hydrogels. In PEERS Conference 2017: Maximizing Success Through Innovation, 2017-01-01, 2017-November, pp. 358-367., Registrované v: SCOPUS
51. [1.2] LI, Rui - YANG, Guihua - CHEN, Jiachuan - HE, Ming. The characterization of hemicellulose extract from corn stalk with stepwise alkali extraction. In Palpu Chongi Gisul/Journal of Korea Technical Association of the Pulp and Paper Industry. ISSN 02533200, 2017-07-01, 49, 4, pp. 29-40., Registrované v: SCOPUS

52. [1.2] MORAIS DE CARVALHO, Danila - ABAD, Antonio Martinez - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTRÖM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronarabinoxylan from sugarcane bagasse and straw. In *Carbohydrate Polymers*. ISSN 01448617, 2017-01-20, 156, pp. 223-234., Registrované v: SCOPUS

53. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

ADCA179 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. (1.373 - IF1996). (1997 - Current Contents). ISSN 1350-4177.

Citácie:

1. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS

2. [1.1] LIU, Zaizhi - MO, Kailin - FEI, Shimin - ZU, Yuangang - YANG, Lei. Efficient approach for the extraction of proanthocyanidins from *Cinnamomum longepaniculatum* leaves using ultrasonic irradiation and an evaluation of their inhibition activity on digestive enzymes and antioxidant activity in vitro. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2017, vol. 40, no. 15, pp. 3100-3113., Registrované v: WOS

3. [1.1] WANG, Jing-yu - YANG, Yu-ling - TANG, Xiao-zhi - NI, Wen-xi - ZHOU, Lei. Effects of pulsed ultrasound on rheological and structural properties of chicken myofibrillar protein. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 38, no., pp. 225-233., Registrované v: WOS

ADCA180 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. (0.841 - IF1997). (1998 - Current Contents). ISSN 0021-8995.

Citácie:

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

2. [1.1] NAZ, Muhammad Yasin - SULAIMAN, Shaharin Anwar. Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. In *REVIEWS IN CHEMICAL ENGINEERING*. ISSN 0167-8299, 2017, vol. 33, no. 3, pp. 293-308., Registrované v: WOS

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

ADCA181 EBRINGEROVÁ, Anna - Kardošová, Alžbeta - HROMÁDKOVÁ, Zdenka - MALOVÍKOVÁ, Anna - HRÍBALOVÁ, 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.

Citácie:

1. [1.1] BARIK, Arundhati - PATNAIK, Tanushree - PARHI, P. - SWAIN, S. K. - DEY, R. K. Synthesis and characterization of new shellac-hydroxypropylmethylcellulose composite for pharmaceutical applications. In *POLYMER BULLETIN*. ISSN 0170-0839, 2017, vol. 74, no. 9, pp. 3467-3485., Registrované v: WOS

2. [1.1] CAI, Deqin - GUAN, Dongliang - DING, Kan - HUANG, Wei. Regioselective protection of xylose for efficient synthesis of arabino- α -1,3-xylosides. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2017, vol. 58, no. 45, pp. 4293-4295., Registrované v: WOS

3. [1.1] HUANG, Ju-qing - QI, Rui-ting - PANG, Mei-rong - LIU, Cong - LI, Guang-yu - ZHANG, Ying. Isolation, chemical characterization, and immunomodulatory activity of naturally acetylated hemicelluloses from bamboo shavings. In *JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE B*. ISSN 1673-1581, 2017, vol. 18, no. 2, pp. 138-151., Registrované v: WOS

ADCA182 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. (2.470 - IF2008). (2009 - Current Contents). ISSN 0039-7881.

Citácie:

1. [1.1] KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthesis of oligosaccharides related to cell wall polysaccharides of the fungi *Candida* and *Aspergillus*. In *RUSSIAN CHEMICAL REVIEWS*. ISSN 0036-021X, 2017, vol. 86, no. 11, pp. 1073-1126.,

- Registrované v: WOS
2. [1.1] KONISHI, Naruki - SHIRAHATA, Tatsuya - YOKOYAMA, Masaki - KATSUMI, Tatsuya - ITO, Yoshikazu - HIRATA, Nozomu - NISHINO, Takashi - MAKINO, Kazuishi - SATO, Noriko - NAGAI, Takayuki - KIYOHARA, Hiroaki - YAMADA, Haruki - KAJI, Eisuke - KOBAYASHI, Yoshinori. *Synthesis of Bisdesmosidic Oleanolic Acid Saponins via a Glycosylation-Deprotection Sequence under Continuous Microfluidic/Batch Conditions*. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 13, pp. 6703-6719., Registrované v: WOS
3. [1.1] ZHANG, Gao-Lan - YANG, Lin - ZHU, Jingjing - WEI, Mengman - YAN, Wanjun - XIONG, De-Cai - YE, Xin-Shan. *Synthesis and Antigenic Evaluation of Oligosaccharide Mimics of Vi Antigen from Salmonella typhi*. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 44, pp. 10670-10677., Registrované v: WOS
- ADCA183 EL-SHAAER, H.M. - ZAHRADNÍK, Pavel - LÁCOVÁ, M. - MATULOVÁ, Mária. Study of substituted formylchromones. In Collection of Czechoslovak Chemical Communications, 1994, vol. 59, p. 1673-1681. (0.382 - IF1993). (1994 - Current Contents, WOS). ISSN 0010-0765.
- Citácie:
1. [1.1] SAFRYGIN, Alexander V. - SOSNOVSKIKH, Vyacheslav Ya. *Synthesis and chemical properties of 2-acylchromones*. In RUSSIAN CHEMICAL REVIEWS. ISSN 0036-021X, 2017, vol. 86, no. 4, pp. 318-338., Registrované v: WOS
- ADCA184 FARKAS, Vladimír - SULOVÁ, Zdena - LEHOTSKÝ, Ján. Effect of light on the concentration of adenine nucleotides in Trichoderma viride. In Journal of General Microbiology, 1985, vol. 131, p. 317.
- Citácie:
1. [1.1] SULTAN, Abida - FRISVAD, Jens C. - ANDERSEN, Birgit - SVENSSON, Birte - FINNIE, Christine. *Investigation of the indigenous fungal community populating barley grains: Secretomes and xylanolytic potential*. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, 2017, vol. 169, no., pp. 153-164., Registrované v: WOS
- ADCA185 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. (3.269 - IF2009). (2010 - Current Contents). ISSN 0223-5234.
- Citácie:
1. [1.1] MENG, X. - JI, C.M. - SU, C. - SHEN, D. - LI, Y.X. - DONG, P.J. - YUAN, D. - YANG, M.Y. - BAI, S. - MENG, D.M. - FAN, Z.C. - YANG, Y. - YU, P. - ZHU, T. *Synthesis and immunogenicity of PG-tb1 monovalent glycoconjugate*. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, JUL 7 2017, vol. 134, p. 140-146., Registrované v: WOS
2. [1.1] VLASSI, E. - PAPAGIANNOPOULOS, A. - PISPAS, S. *Amphiphilic poly(2-oxazoline) copolymers as self-assembled carriers for drug delivery applications*. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, MAR 2017, vol. 88, p. 516-523., Registrované v: WOS
- ADCA186 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. (1.784 - IF2006). ISSN 0144-8617.
- Citácie:
1. [1.1] LIANG, Jue - STRUCKHOFF, Jessica J. - HAMILTON, Paul D. - RAVI, Nathan. *Preparation and Characterization of Biomimetic beta-Lens Crystallins Using Single-Chain Polymeric Nanoparticles*. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 31, pp. 7660-7668., Registrované v: WOS
- ADCA187 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. (2.596 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
1. [1.1] ARCURI, M. - DI BENEDETTO, R. - CUNNINGHAM, A. F. - SAUL, A. - MACLENNAN, C. A. - MICOLI, F. *The influence of conjugation variables on the design and immunogenicity of a glycoconjugate vaccine against Salmonella Typhi*. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
- ADCA188 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] VISHWANATHA, Akshay - D'SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. *Genes Controlling 2-deoxyglucose Induced Lysis and Formation of Reactive Oxygen Species in Schizosaccharomyces pombe*. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331,

- ADCA189 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS
 FARKAŠ, Vladimír - LIŠKOVÁ, Mária - BIELY, Peter. Novel media for detection of microbial producers of cellulase and xylanase. In FEMS Microbiology Letters, 1985, vol.28, p. 137-140. ISSN 0378-1097.
 Citácie:
 1. [1.1] SHRIVASTAVA, P. - KUMAR, R. - YANDIGERI, M. S. *In vitro* biocontrol activity of halotolerant *Streptomyces aureofaciens* K20: A potent antagonist against *Macrophomina phaseolina* (Tassi) Goid. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, 2017, vol. 24, no. 1, pp. 192-199., Registrované v: WOS
 2. [1.1] THAMPI, Anusree - BHAI, R. Suseela. Rhizosphere actinobacteria for combating *Phytophthora capsici* and *Sclerotium rolfsii*, the major soil borne pathogens of black pepper (*Piper nigrum* L.). In BIOLOGICAL CONTROL. ISSN 1049-9644, 2017, vol. 109, no., pp. 1-13., Registrované v: WOS
 3. [1.2] CHROUQI, L. - OUAHMANE, L. - JADRANE, I. - KOUSSA, T. - AL FEDDY, M. N. Screening of soil rhizobacteria isolated from wheat plants grown in the Marrakech region (Morocco, North Africa) for plant growth promoting activities. In Journal of Materials and Environmental Science. ISSN 20282508, 2017-01-01, 8, 9, pp. 3382-3390., Registrované v: SCOPUS
- ADCA190 FARKAŠ, Vladimír - LABUDOVÁ, I. - BAUER, Štefan - FERENCZY, L. Preparation of mutants of *Trichoderma viride* with increased production of cellulase. In Folia microbiologica, 1981, vol. 26, p. 129-132. ISSN 0015-5632.
 Citácie:
 1. [1.2] NEVALAINEN, K. M. Helena - PENTTILÄ, Merja E. - HARKKI, Anu - TEERI, Tuula T. - KNOWLES, Jonathan. The molecular biology of *Trichoderma* and its application to the expression of both homologous and heterologous genes. In Molecular Industrial Mycology: Systems and Applications for Filamentous Fungi, 2017-01-01, pp. 129-148., Registrované v: SCOPUS
- ADCA191 FARKAŠ, Vladimír - MACLACHLAN, G. Stimulation of pea 1,4-β-glucanase activity by oligosaccharides derived from xyloglucan. In Carbohydrate Research, 1988, vol. 184, p. 213-219. ISSN 0008-6215.
 Citácie:
 1. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
- ADCA192 FARKAŠ, Vladimír. Structure and biosynthesis of fungal cell walls: methodological approaches. In Folia microbiologica, 2003, vol. 48, p. 469-478. (0.979 - IF2002). (2003 - Current Contents). ISSN 0015-5632.
 Citácie:
 1. [1.1] KOSANIC, Marijana - RANKOVIC, Branislav - RANCIC, Aleksandar - STANOJKOVIC, Tatjana. Evaluation of metal contents and bioactivity of two edible mushrooms *Agaricus campestris* and *Boletus edulis*. In EMIRATES JOURNAL OF FOOD AND AGRICULTURE. ISSN 2079-052X, 2017, vol. 29, no. 2, pp. 98-103., Registrované v: WOS
- ADCA193 FARKAŠ, Vladimír. Biosynthesis of cell walls in fungi. In Microbiological Reviews, 1979, vol.43, p. 117-144. ISSN 0146-0749.
 Citácie:
 1. [1.1] BAI, Zhen - MA, Qiang - DAI, Yucheng - YUAN, Haisheng - YE, Ji - YU, Wantai. Spatial Heterogeneity of SOM Concentrations Associated with White-rot Versus Brown-rot Wood Decay. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
 2. [1.1] KORENKOVA, Lucia - URIK, Martin. Biosorbents. In BIOMATERIALS AS ADSORBENTS FOR METAL(LOID) WATER POLLUTANTS A REVIEW, 2017, vol., no., pp. 12-36., Registrované v: WOS
 3. [1.1] OJAGHIAN, Mohammad Reza - ZHANG, Jing-Ze - XIE, Guan-Lin - WANG, Qi - LI, Xiao-Lin - GUO, De-Ping. Efficacy of UV-C radiation in inducing systemic acquired resistance against storage carrot rot caused by *Sclerotinia sclerotiorum*. In POSTHARVEST BIOLOGY AND TECHNOLOGY. ISSN 0925-5214, 2017, vol. 130, no., pp. 94-102., Registrované v: WOS
 4. [1.2] Halász, A., & Lásztity, R. (2017). In Use of Yeast Biomass in Food Production (CRC Press, pp. 1-312), Registrované v: SCOPUS
- ADCA194 FARKAŠ, Vladimír - ŠESTÁK, Sergej - GREŠÍK, Miroslav - KOLAROVA, Nadežda - LABUDOVÁ, Ivica - BAUER, Štefan. Induction of cellulase in *Trichoderma reesei* grown on lactose. In Acta Biotechnologica, 1987, vol. 7, p. 425-429.
 Citácie:
 1. [1.1] IVANOVA, Christa - RAMONI, Jonas - AOUAM, Thiziri - FRISCHMANN, Alexa - SEIBOTH, Bernhard - BAKER, Scott E. - LE CROM, Stephane - LEMOINE, Sophie - MARGEOT, Antoine - BIDARD, Frederique. Genome sequencing and transcriptome analysis of *Trichoderma*

- reesei QM9978 strain reveals a distal chromosome translocation to be responsible for loss of vib1 expression and loss of cellulase induction. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS*
- ADCA195 FEDORONKO, Michal - KONIGSTEIN, Jozef - LINEK, Kazimír. Polarographic and preparative electroreduction of D,L-glyceraldehyde and dihydroxyacetone. In Collection of Czechoslovak Chemical Communications, 1965, vol. 30, p. 4297-4306. ISSN 0010-0765.
Citácie:
1. [1.1] JAMES, Olusola O. - SAUTER, Waldemer - SCHROEDER, Uwe. Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to Valerolactone. In CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 9, pp. 2015-2022., Registrované v: WOS
- ADCA196 FERENČÍK, Miroslav - KOTULOVÁ, D. - MASLER, Ladislav - BERGENDI, L. - ŠANDULA, Jozef - ŠTEFANOVIČ, J. Modulatory effect of glucans on the functional and biochemical activities of guinea-pig macrophages. In Methods and Findings in Experimental and Clinical Pharmacology, 1986, vol.8, p.163-166. ISSN 0379-0355.
Citácie:
1. [1.1] VETVICKA, V. - SIMA, P. Various roles of beta-glucan in invertebrates. In ISJ-INVERTEBRATE SURVIVAL JOURNAL. ISSN 1824-307X, 2017, vol. 14, no., pp. 488-493., Registrované v: WOS
- ADCA197 FILIP, Jaroslav - ECKSTEIN ANDICSOVÁ, Anita - VIKARTOVSKÁ, Alica, Welwardová - 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. (7.780 - IF2016). (2017 - Current Contents). ISSN 0956-5663.
Citácie:
1. [1.1] JI, Y.S. - GAI, P.P. - FENG, J. - WANG, L.L. - ZHANG, J.R. - ZHU, J.J. A Fe3O4-carbon nanofiber/gold nanoparticle hybrid for enzymatic biofuel cells with larger power output. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, JUN 14 2017, vol. 5, no. 22, p. 11026-11031., Registrované v: WOS
2. [1.1] MAZURENKO, I. - DE POULPIQUET, A. - LOJOU, E. Recent developments in high surface area bioelectrodes for enzymatic fuel cells. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, OCT 2017, vol. 5, no. 1, p. 74-84., Registrované v: WOS
3. [1.1] MAZURENKO, I. - WANG, X. - DE POULPIQUET, A. - LOJOU, E. H-2/O-2 enzymatic fuel cells: from proof-of-concept to powerful devices. In SUSTAINABLE ENERGY & FUELS. ISSN 2398-4902, SEP 2017, vol. 1, no. 7, p. 1475-1501., Registrované v: WOS
- ADCA198 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana, Blahutová - GEMEINER, Peter - TKÁČ, Ján. Electrochemistry of bilirubin oxidase and its use in preparation of a low cost enzymatic biofuel cell based on a renewable composite binder chitosan. In Electrochimica Acta, 2013, vol. 87, p. 366-374. (3.777 - IF2012). (2013 - Current Contents). ISSN 0013-4686.
Citácie:
1. [1.1] DINESH, Bose - SARASWATHI, Ramiah - KUMAR, Annamalai Senthil. Water based homogenous carbon ink modified electrode as an efficient sensor system for simultaneous detection of ascorbic acid, dopamine and uric acid. In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 233, no., pp. 92-104., Registrované v: WOS
2. [1.1] ENGEL, Adriana Both - HOLADE, Yaovi - CORNU, David - SERVAT, Karine - NAPPORN, Teko W. - KOKOH, K. Boniface - TINGRY, Sophie. Optimization of Chitosan Film-Templated Biocathode for Enzymatic Oxygen Reduction in Glucose Hybrid Biofuel Cell. In JOURNAL OF THE ELECTROCHEMICAL SOCIETY. ISSN 0013-4651, 2017, vol. 164, no. 2, pp. G29-G35., Registrované v: WOS
3. [1.1] KANG, Zepeng - JIAO, Kailong - YU, Chao - DONG, Ji - PENG, Ruiyun - HU, Zongqian - JIAO, Shuqiang. Direct electrochemistry and bioelectrocatalysis of glucose oxidase in CS/CNC film and its application in glucose biosensing and biofuel cells. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 8, pp. 4572-4579., Registrované v: WOS
4. [1.1] ZHAO, Cui-e - GAI, Panpan - SONG, Rongbin - CHEN, Ying - ZHANG, Jianrong - ZHU, Jun-Jie. Nanostructured material-based biofuel cells: recent advances and future prospects. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2017, vol. 46, no. 5, pp. 1545-1564., Registrované v: WOS
- ADCA199 FILIP, Jaroslav - ŠEFČOVIČOVÁ, Jana, Blahutová - 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. (3.722 - IF2010). (2011 - Current Contents). ISSN 0039-9140.
Citácie:

1. [1.1] CAI, Zhixiang - ZHANG, Hongbin - WEI, Yue - GONG, Fengsong. Hyaluronan-Inorganic Nanohybrid Materials for Biomedical Applications. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 6, pp. 1677-1696., Registrované v: WOS
 2. [1.1] HIKICHI, Atsushi - MUGURUMA, Hitoshi - INOUE, Hitoshi - OHSAWA, Tatsuya. Selective Determination of Nicotinamide Adenine Dinucleotide in the Presence of Ascorbic Acid and Uric Acid at a Long-Length Carbon Nanotube Electrode. In *ELECTROCHEMISTRY*. ISSN 1344-3542, 2017, vol. 85, no. 1, pp. 13-16., Registrované v: WOS
 3. [1.1] XU, Jiamei - SU, Wenqiong - LI, Zonglin - LIU, Wenjia - LIU, Shuopeng - DING, Xianting. A modularized and flexible sensor based on MWCNT/PDMS composite film for on-site electrochemical analysis. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2017, vol. 806, no., pp. 68-74., Registrované v: WOS
- ADCA200 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. (3.870 - IF2013). (2014 - Current Contents). ISSN 1567-5394.
- Citácie:
1. [1.1] ITOH, Tetsuji - SHIBUYA, Yuuta - YAMAGUCHI, Akira - HOSHIKAWA, Yasuto - TANAIKE, Osamu - TSUNODA, Tatsuo - HANAOKA, Taka-aki - HAMAKAWA, Satoshi - MIZUKAMI, Fujio - HAYASHI, Akari - KYOTANI, Takashi - STUCKY, Galen D. High-performance bioelectrocatalysts created by immobilization of an enzyme into carbon-coated composite membranes with nano-tailored structures. In *JOURNAL OF MATERIALS CHEMISTRY A*. ISSN 2050-7488, 2017, vol. 5, no. 38, pp. 20244-20251., Registrované v: WOS
 2. [1.1] LUCCA, Bruno Gabriel - PETRONI, Jacqueline Marques - FERREIRA, Valdir Souza. Voltammetric determination of insecticide thiodicarb through its electrochemical reduction using novel solid amalgam electrode fabricated with silver nanoparticles. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 246, no., pp. 748-756., Registrované v: WOS
 3. [1.1] WANG, Jian - LI, Yanfei - LI, Chao - ZENG, Xinpeng - TANG, Wenwei - CHEN, Xuejin. A voltammetric study on the interaction between isoproterenol and cardiomyocyte DNA by using a glassy carbon electrode modified with carbon nanotubes, polyaniline and gold nanoparticles. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 8, pp. 2999-3006., Registrované v: WOS
- ADCA201 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. (1.956 - IF2013). (2014 - Current Contents). ISSN 1452-3981.
- Citácie:
1. [1.1] SABA, Naheed - JAWAID, Mohammad - AL-OTHMAN, Othman. An Overview on Polylactic Acid, its Cellulosic Composites and Applications. In *CURRENT ORGANIC SYNTHESIS*. ISSN 1570-1794, 2017, vol. 14, no. 2, pp. 156-170., Registrované v: WOS
- ADCA202 FILIP, Jaroslav - TKÁČ, Ján. Effective bioelectrocatalysis of bilirubin oxidase on electrochemically reduced graphene oxide. In *Electrochemistry Communications*, 2014, vol. 49, p. 70-74. (4.287 - IF2013). (2014 - Current Contents). ISSN 1388-2481.
- Citácie:
1. [1.1] JADON, Nimisha - JAIN, Rajeev - ARIBAM, Nirupama Guru - CHAUHAN, Priya. Review-Monitoring of Endogenous Antioxidants: An Electroanalytical Approach. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 4, pp. H266-H277., Registrované v: WOS
 2. [1.1] KARIMI, Anahita - ANDREESCU, Silvana. CeO₂-Assisted Biocatalytic Nanostructures for Laccase-Based Biocathodes and Biofuel Cells. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 9, pp. G92-G98., Registrované v: WOS
 3. [1.2] SHEN, Fei - CAO, Xianyi - PANKRATOV, Dmitry - ZHANG, Jingdong - CHI, Qijin. Nanoengineering of Graphene-Supported Functional Composites for Performance-Enhanced Enzymatic Biofuel Cells. In *Graphene Bioelectronics*, 2017-11-21, pp. 219-240., Registrované v: SCOPUS
- ADCA203 FILIP, Jaroslav - TKÁČ, Ján. Is graphene worth using in biofuel cells? In *Electrochimica Acta*, 2014, vol. 136, p. 340-354. (4.086 - IF2013). (2014 - Current Contents). ISSN 0013-4686.
- Citácie:
1. [1.1] ELMEKAWY, Ahmed - HEGAB, Hanaa M. - LOSIC, Dusan - SAINT, Christopher P. - PANT, Deepak. Applications of graphene in microbial fuel cells: The gap between promise and reality. In *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*. ISSN 1364-0321, 2017, vol. 72, no., pp. 1389-1403., Registrované v: WOS
 2. [1.1] FAN, Mengjie - ZHANG, Wei - SUN, Jingyun - CHEN, Liuliu - LI, Peiwen - CHEN, Yingwen - ZHU, Shemin - SHEN, Shubao. Different modified multi-walled carbon nanotube-based anodes to improve the performance of microbial fuel cells. In *INTERNATIONAL JOURNAL OF*

HYDROGEN ENERGY. ISSN 0360-3199, 2017, vol. 42, no. 36, pp. 22786-22795., Registrované v: WOS

3. [1.1] HUI, Yuchen - MA, Xiaoyan - QU, Fengjin - CHEN, Fang - CHEN, Ying. Three-Dimensional Nickel Foam Based Enzymatic Electrode and Its Glucose/O-2 Biofuel Cell with High Power Density. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 13, pp. G112-G120., Registrované v: WOS

4. [1.1] KAFI, A. K. M. - YUSOFF, M. M. - CHOUCAIR, Mohammad - CROSSLEY, Maxwell J. A conductive crosslinked graphene/cytochrome c networks for the electrochemical and biosensing study. In *JOURNAL OF SOLID STATE ELECTROCHEMISTRY*. ISSN 1432-8488, 2017, vol. 21, no. 10, pp. 2761-2767., Registrované v: WOS

5. [1.1] KARIMI, Anahita - ANDREESCU, Silvana. CeO₂-Assisted Biocatalytic Nanostructures for Laccase-Based Biocathodes and Biofuel Cells. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 9, pp. G92-G98., Registrované v: WOS

6. [1.1] MAZURENKO, I. - DE POULPIQUET, A. - LOJOU, E. Recent developments in high surface area bioelectrodes for enzymatic fuel cells. In *CURRENT OPINION IN ELECTROCHEMISTRY*. ISSN 2451-9103, 2017, vol. 5, no. 1, pp. 74-84., Registrované v: WOS

7. [1.1] MAZURENKO, I. - WANG, X. - DE POULPIQUET, A. - LOJOU, E. H-2/O-2 enzymatic fuel cells: from proof-of-concept to powerful devices. In *SUSTAINABLE ENERGY & FUELS*. ISSN 2398-4902, 2017, vol. 1, no. 7, pp. 1475-1501., Registrované v: WOS

8. [1.1] QIU, Hua-Jun - GUAN, Yongxin - LUO, Pan - WANG, Yu. Recent advance in fabricating monolithic 3D porous graphene and their applications in biosensing and biofuel cells. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 89, no., pp. 85-95., Registrované v: WOS

9. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms *Gluconobacter*. In *NANOTECHNOLOGIES IN RUSSIA*. ISSN 1995-0780, 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS

10. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms *Gluconobacter*. In *NANOTECHNOLOGIES IN RUSSIA*. ISSN 1995-0780, 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS

11. [1.1] VIRDIS, Bernardino - DENNIS, Paul G. The nanostructure of microbially-reduced graphene oxide fosters thick and highly-performing electrochemically-active biofilms. In *JOURNAL OF POWER SOURCES*. ISSN 0378-7753, 2017, vol. 356, no., pp. 556-565., Registrované v: WOS

12. [1.2] BRUN, Nicolas - BACCOUR, Mohamed - FLEXER, Victoria. Nanocarbon-based enzymatic electrodes. In *Functional Electrodes for Enzymatic and Microbial Electrochemical Systems*, 2017-01-01, pp. 341-379., Registrované v: SCOPUS

13. [1.2] MOHANAKRISHNA, G. - KALATHIL, Shafeer - PANT, Deepak. Reactor design for bioelectrochemical systems. In *Microbial Fuel Cell: A Bioelectrochemical System that Converts Waste to Watts*, 2017-12-01, pp. 209-227., Registrované v: SCOPUS

ADCA204 FRAŇOVÁ, Lucia - PUCHART, Vladimír - BIELY, Peter. β -Glucuronidase-coupled assays of glucuronoyl esterases. In *Analytical Biochemistry*, 2016, vol. 510, p. 114-119. (2.243 - IF2015). (2016 - Current Contents). ISSN 0003-2697.

Citácie:

1. [1.1] ZANG, Yuping - GUO, Na - JIAO, Jiao - WANG, Xiqing - GAI, Qingyan - XU, Wenjing - FU, Yujie. Application of magnetically immobilized edible fungus for the biotransformation of panax notoginseng saponin Rb1 to Rd and Rg3. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2017, vol. 1061, no., pp. 306-313., Registrované v: WOS

ADCA205 FREIRE, F. - CUESTA, I. - CORZANA, F. - REVUELTA, J. - GONZÁLEZ, C. - HRICOVÍNÍ, Miloš - BASTIDA, A. - JIMÉNEZ-BARBERO, J. - ASENSIO, J.L. A simple NMR analysis of the protonation equilibrium that accompanies aminoglycoside recognition: Dramatic alternations in the neomycin-B protonation state upon binding to a 23-mer RNA aptamer. In *Chemical Communications*, 2007, issue 2, p. 174-176.

Citácie:

1. [1.1] JOHN, Torsten - VOO, Zhi Xiang - KUBEIL, Clemens - ABEL, Bernd - GRAHAM, Bim - SPICCIA, Leone - MARTIN, Lisandra L. Effects of guanidino modified aminoglycosides on mammalian membranes studied using a quartz crystal microbalance. In *MEDCHEMCOMM*. ISSN

- ADCA206 2040-2503, 2017, vol. 8, no. 5, pp. 1112-1120., Registrované v: WOS
 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.
 Citácie:
 1. [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS
 2. [1.1] KOTENA, Zahrabatoul Mosapour - BIN MOHAMAD, Saharuddin. Bifurcated hydrogen bond in rare sugar by computational study. In MOLECULAR CRYSTALS AND LIQUID CRYSTALS. ISSN 1542-1406, 2017, vol. 646, no. 1, pp. 31-40., Registrované v: WOS
 3. [1.1] MATHEWS, Patrick D. - MERTINS, Omar. Dispersion of chitosan in liquid crystalline lamellar phase: Production of biofriendly hydrogel of nano cubic topology. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 850-857., Registrované v: WOS
 4. [1.1] SAHOO, Jitendra Kumar - KUMAR, Aniket - RATH, Juhi - MOHANTY, Tanuja - DASH, Priyabrat - SAHOO, Harekrushna. Guar gum-coated iron oxide nanocomposite as an efficient adsorbent for Congo red dye. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, 2017, vol. 95, no., pp. 342-354., Registrované v: WOS
 5. [1.1] STUBENRAUCH, Cosima - HAMANN, Martin - PREISIG, Natalie - CHAUHAN, Vinay - BORDES, Romain. On how hydrogen bonds affect foam stability. In ADVANCES IN COLLOID AND INTERFACE SCIENCE. ISSN 0001-8686, 2017, vol. 247, no., pp. 435-443., Registrované v: WOS
 6. [1.2] BOUTTIER-FIGUEROA, D. C. - QUEVEDO-LÓPEZ, M. A. - ROSAS-DURAZO, A. - SOTELO-LERMA, M. Hydrothermal technique for isolation of galactomannan from seeds of sonoran mezquite (*Prosopis spp.*). In Revista Mexicana de Ingeniera Quimica. ISSN 16652738, 2017-08-01, 16, 2, pp. 457-465., Registrované v: SCOPUS
- ADCA207 FUJIMOTO, Zui - ICHINOSE, Hitomi - BIELY, Peter - KANEKO, Satoshi. Crystallization and preliminary crystallographic analysis of the glycoside hydrolase family 115 alfa-glucuronidase from *Streptomyces pristinaespiralis*. In Acta Crystallographica Section F, 2011, vol. F67, p. 68-71. (0.563 - IF2010). ISSN 1744-3091.
 Citácie:
 1. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 alpha-glucuronidase and GH11 xylanase from *Paenibacillus sp JDR-2*: potential roles in processing glucuronoxylans. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
 2. [1.1] YAN, Ruoyu - VUONG, Thu V. - WANG, Weijun - MASTER, Emma R. Action of a GH115 alpha-glucuronidase from *Amphibacillus xylanus* at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 22-28., Registrované v: WOS
- ADCA208 FUSKA, J. - PROKSA, Bohumil - WILLIAMSON, J. - ROSAZZA, J.P. Microbiological and chemical dehydrogenation of Withaferin A. In Folia Microbiologica, 1987, vol. 32, p. 112-115. ISSN 0015-5632.
 Citácie:
 1. [1.1] DHAMI, Jasdeep - CHANG, Edwin - GAMBHIR, Sanjiv S. Withaferin A and its potential role in glioblastoma (GBM). In JOURNAL OF NEURO-ONCOLOGY. ISSN 0167-594X, 2017, vol. 131, no. 2, pp. 201-211., Registrované v: WOS
- ADCA209 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] GUBIANI, Juliana R. - WIJERATNE, E. M. Kithsiri - SHI, Taoda - ARAUJO, Angela R. - ARNOLD, A. Elizabeth - CHAPMAN, Eli - GUNATILAKA, A. A. Leslie. An epigenetic modifier induces production of (10'; S)-verruculide B, an inhibitor of protein tyrosine phosphatases by *Phoma sp nov LG0217*, a fungal endophyte of *Parkinsonia microphylla*. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2017, vol. 25, no. 6, pp. 1860-1866., Registrované v: WOS
 2. [1.1] LEON, Alejandra - DEL-ANGEL, Mayela - LUISA AVILA, Jose - DELGADO, Guillermo. Phthalides: Distribution in Nature, Chemical Reactivity, Synthesis, and Biological Activity. In PROGRESS IN THE CHEMISTRY OF ORGANIC NATURAL PRODUCTS, VOL 104. ISSN 2191-7043, 2017, vol. 104, no., pp. 127-246., Registrované v: WOS

3. [1.1] NGUYEN, Dung M. T. - DO, Lien M. T. - NGUYEN, Vy T. - CHAVASIRI, Warinthorn - MORTIER, Jacques - NGUYEN, Phung P. K. Phenolic Compounds from the Lichen *Lobaria orientalis*. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 2, pp. 261-268., Registrované v: WOS
- ADCA210 FUSKA, J. - PROKSA, B. - UHRÍN, Dušan. The antibiotics PSX-1 produced by *Penicillium stipitatum* is identical with botryodiplodine. In *Folia microbiologica*, 1988, vol. 33, p. 238-240. ISSN 0015-5632.
Citácie:
1. [1.1] KOUL, Mytre - SINGH, Shashank. *Penicillium spp.: prolific producer for harnessing cytotoxic secondary metabolites*. In *ANTI-CANCER DRUGS*. ISSN 0959-4973, 2017, vol. 28, no. 1, pp. 11-30., Registrované v: WOS
- ADCA211 GAJDOŠOVÁ, A. - PETRULÁKOVÁ, Z. - HAVRLETOVÁ, M. - ČERVENÁ, V. - HOZOVÁ, B. - ŠTURDÍK, E. - KOGAN, Grigorij. The content of water-soluble and water-insoluble beta-D-glucans in selected oats and barley varieties. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 70, s. 46-52. (1.784 - IF2006). ISSN 0144-8617.
Citácie:
1. [1.1] MITMESSER, S. - COMBS, M. *Prebiotics: Inulin and Other Oligosaccharides*. In *MICROBIOTA IN GASTROINTESTINAL PATHOPHYSIOLOGY: IMPLICATIONS FOR HUMAN HEALTH, PREBIOTICS, PROBIOTICS, AND DYSBIOSIS*, 2017, vol., no., pp. 201-208., Registrované v: WOS
2. [1.1] YANG, Ling - YU, Peiqiang. *Synchrotron-based and global-sourced molecular (micro)spectroscopy contributions to advances in new hullless barley (with structure alteration) research on molecular structure, molecular nutrition, and nutrient delivery*. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION*. ISSN 1040-8398, 2017, vol. 57, no. 1, pp. 224-236., Registrované v: WOS
3. [1.2] LOSKUTOV, I. G. - POLONSKIY, V. I. *Content of β -glucans in oat grain as a perspective direction of breeding for health products and fodder*. In *Sel'skokhozyaistvennaya Biologiya*. ISSN 01316397, 2017-01-01, 52, 4, pp. 646-657., Registrované v: SCOPUS
4. [1.2] LOSKUTOV, I. G. - POLONSKIY, V. I. *Content of β -glucans in oat grain as a perspective direction of breeding for health products and fodder*. In *Sel'skokhozyaistvennaya Biologiya*. ISSN 01316397, 2017-01-01, 52, 4, pp. 646-657., Registrované v: SCOPUS
- ADCA212 GAJDOŠOVÁ, Silvia - SPÍCHAL, Lukáš - KAMÍNEK, Miroslav - HOYEROVÁ, Klára - NOVÁK, Ondřej - DOBREV, Petre I. - GALUSZKA, Petr - KLÍMA, Petr - GAUDINOVÁ, Alena - ŽIŽKOVÁ, Eva - HANUŠ, Jan - DANČÁK, Martin - TRÁVNÍČEK, Bohumil - PEŠEK, Bedřich - KRUPÍČKA, Martin - VANĚKOVÁ, Radomíra - STRNAD, Miroslav - MOTYKA, Václav. Distribution, biological activities, metabolism, and the conceivable function of cis-zeatin-type cytokinins in plants. In *Journal of experimental botany*, 2011, vol. 62, p. 2827-2840. (4.818 - IF2010). (2011 - Current Contents). ISSN 0022-0957.
Citácie:
1. [1.1] ADLER, Sophie - VERDEIL, Jean-Luc - CONEJERO, Genevieve - ZAHARIA, Irina L. - SARRAZIN, Amelie - HOAREAU, Julien - FOCK-BASTIDE, Isabelle - NOIROT, Michel. *Impact of the laurina mutation in Coffea arabica L. on semi-dwarfism, cell number and hormonal profiles in hypocotyls of seedlings growing under daylight*. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2015, vol. 29, no. 4, pp. 1197-1205., Registrované v: WOS
2. [1.1] GOGGIN, Danica E. - EMERY, R. J. Neil - KUREPIN, Leonid V. - POWLES, Stephen B. *A potential role for endogenous microflora in dormancy release, cytokinin metabolism and the response to fluridone in Lolium rigidum seeds*. In *ANNALS OF BOTANY*. ISSN 0305-7364, 2015, vol. 115, no. 2, pp. 293-301., Registrované v: WOS
3. [1.1] KESHISHIAN, Erika A. - RASHOTTE, Aaron M. *Plant cytokinin signalling*. In *PLANT HORMONE SIGNALLING*. ISSN 0071-1365, 2015, vol. 58, no., pp. 13-27., Registrované v: WOS
4. [1.1] KOESLIN-FINDEKLEE, Fabian - BECKER, Martin A. - VAN DER GRAAFF, Eric - ROITSCH, Thomas - HORST, Walter J. *Differences between winter oilseed rape (Brassica napus L.) cultivars in nitrogen starvation-induced leaf senescence are governed by leaf-inherent rather than root-derived signals*. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2015, vol. 66, no. 13, pp. 3669-3681., Registrované v: WOS
5. [1.1] MORRISON, Erin N. - EMERY, R. J. Neil - SAVILLE, Barry J. *Phytohormone Involvement in the Ustilago maydis-Zea mays Pathosystem: Relationships between Abscissic Acid and Cytokinin Levels and Strain Virulence in Infected Cob Tissue*. In *PLOS ONE*. ISSN 1932-6203, 2015, vol. 10, no. 6, pp., Registrované v: WOS
6. [1.1] MORRISON, Erin N. - KNOWLES, Sarah - HAYWARD, Allison - THORN, R. Greg - SAVILLE, Barry J. - EMERY, R. J. N. *Detection of phytohormones in temperate forest fungi predicts consistent abscissic acid production and a common pathway for cytokinin biosynthesis*. In

- MYCOLOGIA. ISSN 0027-5514, 2015, vol. 107, no. 2, pp. 245-257., Registrované v: WOS
7. [1.1] MUTHAMILARASAN, Mehanathan - PRASAD, Manoj. Genetic Determinants of Drought Stress Tolerance in *Setaria*. In GENETICS AND GENOMICS OF SETARIA, 2017, vol. 19, no., pp. 267-289., Registrované v: WOS
8. [1.1] TAMESHIGE, Toshiaki - HIRAKAWA, Yuki - TORII, Keiko U. - UCHIDA, Naoyuki. Cell walls as a stage for intercellular communication regulating shoot meristem development. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2015, vol. 6, no., pp., Registrované v: WOS
9. [1.1] YURKOV, Andrey - VESELOVA, Svetlana - JACOBI, Lidia - STEPANOVA, Galina - YEMELYANOV, Vladislav - KUDOYAROVA, Guzel - SHISHOVA, Maria. The effect of inoculation with arbuscular mycorrhizal fungus *Rhizophagus irregularis* on cytokinin content in a highly mycotrophic *Medicago lupulina* line under low phosphorus level in the soil. In PLANT SOIL AND ENVIRONMENT. ISSN 1214-1178, 2017, vol. 63, no. 11, pp. 519-524., Registrované v: WOS
10. [1.1] ZHANG, Hui - GUIGUET, Antoine - DUBREUIL, Geraldine - KISIALA, Anna - ANDREAS, Peter - EMERY, R. J. Neil - HUGUET, Elisabeth - BODY, Melanie - GIRON, David. Dynamics and origin of cytokinins involved in plant manipulation by a leaf-mining insect. In INSECT SCIENCE. ISSN 1672-9609, 2017, vol. 24, no. 6, pp. 1065-1078., Registrované v: WOS
11. [1.1] ZUR, Iwona - DUBAS, Ewa - KRZEWSKA, Monika - WALIGORSKI, Piotr - DZIURKA, Michal - JANOWIAK, Franciszek. Hormonal requirements for effective induction of microspore embryogenesis in triticale (*x Triticosecale* Wittm.) anther cultures. In PLANT CELL REPORTS. ISSN 0721-7714, 2015, vol. 34, no. 1, pp. 47-62., Registrované v: WOS
12. [1.2] AN, Xianjin - XIAO, Baohua - DI, Xinyue - DONG, Hui - TANG, Haiming. Research progress on aging of organic pollutants in geosorbents: a review. In Acta Geochimica. ISSN 20960956, 2017-03-01, 36, 1, pp. 27-43., Registrované v: SCOPUS
13. [1.2] NGUYEN, Quoc Thien - KISIALA, Anna - ANDREAS, Peter - NEIL EMERY, R. J. - NARINE, Suresh. Soybean seed development: Fatty acid and phytohormone metabolism and their interactions. In Current Genomics. ISSN 13892029, 2016-06-01, 17, 3, pp. 241-260., Registrované v: SCOPUS

ADCA213

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. (5.228 - IF2015). (2016 - Current Contents). ISSN 2045-2322.

Citácie:

1. [1.1] ANDBERG, Martina - MOLLERUP, Filip - PARIKKA, Kirsti - KOUTANIEMI, Sanna - BOER, Harry - JUVONEN, Minna - MASTER, Emma - TENKANEN, Maija - KRUUS, Kristiina. A Novel Colletotrichum graminicola Raffinose Oxidase in the AA5 Family. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS
2. [1.1] BISSARO, Bastien - ROHR, Asmund K. - MULLER, Gerdt - CHYLENSKI, Piotr - SKAUGEN, Morten - FORSBERG, Zarah - HORN, Svein J. - VAAJE-KOLSTAD, Gustav - ELJESINK, Vincent G. H. Oxidative cleavage of polysaccharides by monocopper enzymes depends on H₂O₂. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 10, pp. 1123-+, Registrované v: WOS
3. [1.1] FRANDSEN, Kristian E. H. - POULSEN, Jens-Christian N. - TANDRUP, Tobias - LO LEGGIO, Leila. Unliganded and substrate bound structures of the cellobiohydrol active lytic polysaccharide monooxygenase LsAA9A at low pH. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 187-190., Registrované v: WOS
4. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
5. [1.1] MOLLERS, K. B. - MIKKELSEN, H. - SIMONSEN, T. I. - CANNELLA, D. - JOHANSEN, K. S. - BJERRUM, M. J. - FELBY, C. On the formation and role of reactive oxygen species in light-driven LPMO oxidation of phosphoric acid swollen cellulose. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 182-186., Registrované v: WOS
6. [1.1] MONCLARO, Antonielle Vieira - FERREIRA FILHO, Edivaldo Ximenes. Fungal lytic polysaccharide monooxygenases from family AA9: Recent developments and application in lignocellulose breakdown. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 771-778., Registrované v: WOS

ADCA214

GEMEINER, Peter - KURILLOVÁ, Ľubica - MALOVÍKOVÁ, Anna - TÓTH, D. - TOMAŠOVIČOVÁ, D. Properties and spherical calcium pectate and alginate gels and their use in diffusion chromatography, solid preparations and immobilization of enzymes and cells. In Folia

Microbiologica, 1989, vol. 34, p. 214-227. ISSN 0015-5632.

Citácie:

1. [1.1] JAFARY, Fariba - VARSHOSAZ, Jaleh - PANJEHPOUR, Mojtaba - YAGHMAEI, Parichehr. Immobilization of Alkaline Phosphatase Using Chitosan Nanoparticles. In RUSSIAN JOURNAL OF APPLIED CHEMISTRY. ISSN 1070-4272, 2015, vol. 88, no. 5, pp. 891-897., Registrované v: WOS

ADCA215 GEMEINER, Peter - ŠTEFUCA, V. - BÁLEŠ, V. Biochemical engineering of biocatalysts immobilized on cellulosic materials. In Enzyme and Microbial Technology, 1993, vol. 15, p. 551-566. ISSN 0141-0229.

Citácie:

1. [1.2] DUMITRIU, Severian - VIDAL, Pierre F. - CHORNET, Esteban. Hydrogels based on polysaccharides. In Polysaccharides in Medicinal Applications, 2017-01-01, pp. 125-241., Registrované v: SCOPUS

ADCA216 GEMEINER, Peter - BREIER, Albert. Aldehydic derivatives of bead cellulose-Relationship between the matrix structure and function in immobilization of enzymes catalyzing hydrolysis of high molecular substrates. In Biotechnol.Bioeng, 1982, vol. 24, p. 2573-2583.

Citácie:

1. [1.2] Lundblad, R. L. (2016). In Chemical Modification of Biological Polymers (CRC Press, pp. 1-406), Registrované v: SCOPUS

ADCA217 GEMEINER, Peter - MISLOVIČOVÁ, Danica - TKÁČ, Ján - ŠVITEL, Juraj - PÄTOPRSTÝ, Vladimír - HRABÁROVÁ, Eva - KOGAN, Grigorij - KOŽAR, Tibor. Lectinomics II. A highway to biomedical/clinical diagnostics. In Biotechnology Advances, 2009, vol. 27, no. 1, p. 1-15. (6.110 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0734-9750.

Citácie:

1. [1.1] CUI, Bo - LI, Lu - ZENG, Qiyan - LIN, Faquan - YIN, Lijun - LIAO, Liejun - HUANG, Min - WANG, Jingping. A novel lectin from Artocarpus lingnanensis induces proliferation and Th1/Th2 cytokine secretion through CD45 signaling pathway in human T lymphocytes. In JOURNAL OF NATURAL MEDICINES. ISSN 1340-3443, 2017, vol. 71, no. 2, pp. 409-421., Registrované v: WOS

2. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS

3. [1.1] FIGUEIROA, Evelynne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS

4. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Lable-free electrochemical analysis of biomacromolecules. In APPLIED MATERIALS TODAY. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS

5. [1.1] PAVLIKOVÁ, Lucia - SERES, Mario - HANO, Milan - BOHACOVA, Viera - SEVČIKOVÁ, Ivana - KYCA, Tomas - BREIER, Albert - SULOVA, Zdena. L1210 Cells Overexpressing ABCB1 Drug Transporters Are Resistant to Inhibitors of the N- and O-glycosylation of Proteins. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS

6. [1.1] PINEDO, Marcela - GENOULA, Melanie - XIMENA SILVEYRA, Maria - CARVALHO, Andre De Oliveira - REGENTE, Mariana - DEL RIO, Marianela - SOARES, Julia Ribeiro - GOMES, Valdirene Moreira - DE LA CANAL, Laura. Anti-Neuroblastoma Properties of a Recombinant Sunflower Lectin. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 1, pp., Registrované v: WOS

7. [1.1] POIROUX, Guillaume - BARRE, Annick - VAN DAMME, Els J. M. - BENOIST, Herve - ROUGE, Pierre. Plant Lectins Targeting O-Glycans at the Cell Surface as Tools for Cancer Diagnosis and Therapy. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS

8. [1.1] SAMAH, Saoud - FATAH, Cherifi - JEAN-MARC, Berjeaud - SAFIA, Kellou-Tairi - FATIMA, Laraba-Djebbari. Purification and characterization of Cc-Lec, C-type lactose-binding lectin: A platelet aggregation and blood-clotting inhibitor from Cerastes cerastes venom. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 336-350., Registrované v: WOS

9. [1.1] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - BABUSHKINA, Tatyana A. - YAMSKOV, Igor A. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Silver- and gold-labeled colloidal and crosslinked glycopolymers based on glycol glycosynthons and maleic anhydride copolymers for lectin binding. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 16, pp., Registrované v: WOS
10. [1.1] SARTIM, Marco A. - PINHEIRO, Matheus P. - DE PADUA, Ricardo A. P. - SAMPAIO, Suely V. - CRISTINA NONATO, M. Structural and binding studies of a C-type galactose-binding lectin from *Bothrops jararacussu* snake venom. In TOXICON. ISSN 0041-0101, 2017, vol. 126, no., pp. 59-69., Registrované v: WOS
11. [1.2] SAMOILOVA, N. A. - KRAYUKHINA, M. A. - LIKHOSHERSTOV, L. M. - YAMSKOV, I. A. - PISKAREV, V. E. Lectins: A new approach to their sensing and isolation. In Advances in Chemistry Research, 2017-10-01, 41, pp. 91-143., Registrované v: SCOPUS
- ADCA218 GEMEINER, Peter - POLAKOVIC, M. - MISLOVIČOVÁ, Danica - ŠTEFUCA, V. Cellulose as an (bio) affinity carrier: properties, design and application. In Journal of Chromatography. B. Biomedical Applications, 1998, vol. 715, no. 1, p. 245-271. (1.588 - IF1997). (1998 - Current Contents, MEDLINE). ISSN 0378-4347.
- Citácie:
1. [1.1] SQUISSATO, Andre L. - LIMA, Alexandre F. - ALMEIDA, Eduardo S. - PASQUINI, Daniel - RICHTER, Eduardo M. - MUNOZ, Rodrigo A. A. Eucalyptus pulp as an adsorbent for metal removal from biodiesel. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 95, no., pp. 1-5., Registrované v: WOS
2. [1.2] MISHRA, Rupesh K. - SHARMA, Vinay. Biotic strategies for toxic heavy metal decontamination. In Recent Patents on Biotechnology. ISSN 1872-2083, 2017-12-01, 11, 3, pp. 218-228., Registrované v: SCOPUS
- ADCA219 GILLI, R. - KACURÁKOVÁ, Marta - MATHLOUTHI, M. - NAVARINI, L. - PAOLETTI, S. FTIR studies of sodium hyaluronate and its oligomers in the amorphous solid-phase and in aqueous-solution. In Carbohydrate Research, 1994, vol. 263, no. 2, p. 315-326. ISSN 0008-6215.
- Citácie:
1. [1.1] BANG, Sumi - DAS, Dipankar - YU, Jiyun - NOH, Insup. Evaluation of MC3T3 Cells Proliferation and Drug Release Study from Sodium Hyaluronate-1,4-butanediol Diglycidyl Ether Patterned Gel. In NANOMATERIALS. ISSN 2079-4991, 2017, vol. 7, no. 10, pp., Registrované v: WOS
2. [1.1] CAI, Zhixiang - ZHANG, Fei - WEI, Yue - ZHANG, Hongbin. Freeze Thaw-Induced Gelation of Hyaluronan: Physical Cryostructure Correlated with Intermolecular Associations and Molecular Conformation. In MACROMOLECULES. ISSN 0024-9297, 2017, vol. 50, no. 17, pp. 6647-6658., Registrované v: WOS
3. [1.1] HAFSA, Jawhar - CHAOUCH, Mohamed Aymen - CHARFEDDINE, Bassem - RIHOUEY, Christophe - LIMEM, Khalifa - LE CERF, Didier - ROUATBI, Sonia - MAJDOUB, Hatem. Effect of ultrasonic degradation of hyaluronic acid extracted from rooster comb on antioxidant and antiglycation activities. In PHARMACEUTICAL BIOLOGY. ISSN 1388-0209, 2017, vol. 55, no. 1, pp. 156-163., Registrované v: WOS
4. [1.1] LEPORE, Maria - PORTACCIO, Marianna - DELFINO, Ines - SIRONI, Laura - LA GATTA, Annalisa - D'AGOSTINO, Antonella - IZZO, E. - SCHIRALDI, Chiara. Physico-optical properties of a crosslinked hyaluronic acid scaffold for biomedical applications. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 35, pp., Registrované v: WOS
5. [1.1] MOHAMED, Hossam Taha - UNTEREINER, Valerie - SOCKALINGUM, Ganesh D. - BREZILLON, Stephane. Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 309-323., Registrované v: WOS
6. [1.1] PAN, Nicole Caldas - BRAGA PEREIRA, Hanny Cristina - CORRADI DA SILVA, Maria de Lourdes - DALBERTO VASCONCELOS, Ana Flora - PEDRINE COLABONE CELLIGOI, Maria Antonia. Improvement Production of Hyaluronic Acid by *Streptococcus zooepidemicus* in Sugarcane Molasses. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 1, pp. 276-293., Registrované v: WOS
7. [1.1] TRAVLOU, Nikolina A. - SECOR, Jeff - BANDOSZ, Teresa J. Highly luminescent S-doped carbon dots for the selective detection of ammonia. In CARBON. ISSN 0008-6223, 2017, vol. 114, no., pp. 544-556., Registrované v: WOS
8. [1.1] ZHANG, Qiang - CHEN, Shu - YOU, Renchuan - TARIQ, Zeeshan - HUANG, Jingjing - LI, Mingzhong - YAN, Shuqin. Silk fibroin/hyaluronic acid porous scaffold for dermal wound healing. In FIBERS AND POLYMERS. ISSN 1229-9197, 2017, vol. 18, no. 6, pp. 1056-1063., Registrované v: WOS
- ADCA220 GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - MORAVČÍK, R. Stabilization effect of lignin in

natural rubber. In *Polymer Degradation and Stability*, 2006, vol. 91, p. 229-233. (1.749 - IF2005). (2006 - Current Contents). ISSN 0141-3910.

Citácie:

1. [1.1] DATTA, Janusz - PARCHETA, Paulina - SUROWKA, Joanna. Softwood-lignin/natural rubber composites containing novel plasticizing agent: Preparation and characterization. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 675-685., Registrované v: WOS
2. [1.1] DATTA, Janusz - PARCHETA, Paulina. A comparative study on selective properties of Kraft lignin-natural rubber composites containing different plasticizers. In *IRANIAN POLYMER JOURNAL*. ISSN 1026-1265, 2017, vol. 26, no. 6, pp. 453-466., Registrované v: WOS
3. [1.1] DIOP, Amadou - ADJALLE, Kokou - BOENS, Benjamin - MONTPLAISIR, Daniel - BARNABE, Simon. Synthesis and characterization of lignin-melamine-formaldehyde resin. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, 2017, vol. 30, no. 9, pp. 1255-1266., Registrované v: WOS
4. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
5. [1.1] KIRSCHWENG, Balazs - VOROS, Benedek - TATRAALJAI, Dora - ZSUGA, Miklos - FOLDES, Eniko - PUKANSZKY, Bela. Natural antioxidants as melt stabilizers for PE: Comparison of silymarin and quercetin. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 90, no., pp. 456-466., Registrované v: WOS
6. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS
7. [1.1] LUO, Shupin - CAO, Jinzhen - SUN, Wenjing. Evaluation of Kraft Lignin as Natural Compatibilizer in Wood Flour/Polypropylene Composites. In *POLYMER COMPOSITES*. ISSN 0272-8397, 2017, vol. 38, no. 11, pp. 2387-2394., Registrované v: WOS
8. [1.1] TIAN, Xiaofei - FANG, Zhen - SMITH, Richard L. - WU, Zhenqiang - LIU, Mingyou. Properties, Chemical Characteristics and Application of Lignin and Its Derivatives. In *PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN*. ISSN 2214-1537, 2016, vol., no., pp. 3-33., Registrované v: WOS

ADCA221

GREGOROVÁ, Adriana - KOŠÍKOVÁ, Božena - STAŠKO, A. Radical scavenging capacity of lignin and its effect on processing stabilization of virgin and recycled polypropylene. In *Journal of Applied Polymer Science*, 2007, vol. 106, p. 1626-1631. (1.306 - IF2006). (2007 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] GUILHEN, Augusto - GADIOLI, Renan - FERNANDES, Felipe C. - WALDMAN, Walter R. - PAOLI, Marco Aurelio De. High-density green polyethylene biocomposite reinforced with cellulose fibers and using lignin as antioxidant. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 35, pp., Registrované v: WOS
2. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
3. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS

ADCA222

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. (1.685 - IF2004). (2005 - Current Contents). ISSN 0141-3910.

Citácie:

1. [1.1] FARIS, Abbas Hasan - RAHIM, Afidah Abdul - IBRAHIM, Mohamad Nasir Mohamad - HUSSIN, M. Hazwan - ALKURDI, Adel Mustafa - SALEHABADI, Ali. Investigation of oil palm based Kraft and auto-catalyzed organosolv lignin susceptibility as a green wood adhesives. In *INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES*. ISSN 0143-7496, 2017, vol. 74, no., pp. 115-122., Registrované v: WOS
2. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
3. [1.1] KLAPISZEWSKI, Lukasz - TOMASZEWSKA, Jolanta - SKORCZEWSKA, Katarzyna - JESIONOWSKI, Teofil. Preparation and Characterization of Eco-Friendly Mg(OH)(2)/Lignin Hybrid Material and Its Use as a Functional Filler for Poly(Vinyl Chloride). In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 7, pp., Registrované v: WOS
4. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In

- QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS*
5. [1.1] LUO, Shupin - CAO, Jinzhen - MCDONALD, Armando G. Esterification of industrial lignin and its effect on the resulting poly(3-hydroxybutyrate-co-3-hydroxyvalerate) or polypropylene blends. In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 281-291., Registrované v: WOS*
6. [1.1] LUO, Shupin - CAO, Jinzhen - SUN, Wenjing. Evaluation of Kraft Lignin as Natural Compatibilizer in Wood Flour/Polypropylene Composites. In *POLYMER COMPOSITES. ISSN 0272-8397, 2017, vol. 38, no. 11, pp. 2387-2394., Registrované v: WOS*
7. [1.1] NIARAKI, Pouria Rezaee - LATIBARI, Ahmad Jahan - RASHNO, Arash - TAJDINI, Ajang. The interaction of delignification and fiber characteristics on the mechanical properties of old corrugated container fiber/polypropylene composite. In *SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS. ISSN 0792-1233, 2017, vol. 24, no. 1, pp. 35-40., Registrované v: WOS*
8. [1.2] DIAS, Bernardo Zandomenico - CALMON, João Luiz - DE ALVAREZ, Cristina Engel. Physical, mechanical and fire properties of thermoplastic composites produced from recycled plastic matrices and filled with lignocellulosic residues: A review. In *Journal of Solid Waste Technology and Management. ISSN 10881697, 2017-05-01, 43, 2, pp. 102-121., Registrované v: SCOPUS*
- ADCA223 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.*
- Citácie:
1. [1.1] JOSE GARCIA-JIMENEZ, Maria - GIL-CABALLERO, Sergio - CANALES, Angeles - JIMENEZ-BARBERO, Jesus - DE PAZ, Jose L. - NIETO, Pedro M. Interactions between a Heparin Trisaccharide Library and FGF-1 Analyzed by NMR Methods. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS*
2. [1.1] ZHAO, Yuejie - SINGH, Arunima - XU, Yongmei - ZONG, Chengli - ZHANG, Fuming - BOONS, Geert-Jan - LIU, Jian - LINHARDT, Robert J. - WOODS, Robert J. - AMSTER, I. Jonathan. Gas-Phase Analysis of the Complex of Fibroblast GrowthFactor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY. ISSN 1044-0305, 2017, vol. 28, no. 1, pp. 96-109., Registrované v: WOS*
- ADCA224 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. (5.270 - IF2006). (2007 - Current Contents). ISSN 1381-6128.*
- Citácie:
1. [1.1] HUANG, Chahua - LIU, Yang - BEENKEN, Andrew - JIANG, Lin - GAO, Xiang - HUANG, Zhifeng - HSU, Anna - GROSS, Garrett J. - WANG, Yi-Gang - MOHAMMADI, Moosa - SCHULTZ, Jo El J. A novel fibroblast growth factor-1 ligand with reduced heparin binding protects the heart against ischemia-reperfusion injury in the presence of heparin co-administration. In *CARDIOVASCULAR RESEARCH. ISSN 0008-6363, 2017, vol. 113, no. 13, pp. 1585-1602., Registrované v: WOS*
2. [1.2] Pizzo, S. V., Lundblad, R. L., & Willis, M. S. (2016). In *Proteolysis in the Interstitial Space. (CRC Press, pp. 1-297), Registrované v: SCOPUS*
- ADCA225 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. (3.368 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0006-2960.*
- Citácie:
1. [1.1] AHRENS, Lucas A. J. - VONWIL, Daniel - CHRISTENSEN, Jon - SHASTRI, V. Prasad. Gelatin device for the delivery of growth factors involved in endochondral ossification. In *PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 4, pp., Registrované v: WOS*
2. [1.1] BECCATI, Daniela - LECH, Mirosław - OZUG, Jennifer - GUNAY, Nur Sibel - WANG, Jing - SUN, Elaine Y. - PRADINES, Joel R. - FARUTIN, Victor - SHRIVER, Zachary - KAUNDINYA, Ganesh V. - CAPILA, Ishan. An integrated approach using orthogonal analytical techniques to characterize heparan sulfate structure. In *GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 1, pp. 107-117., Registrované v: WOS*
3. [1.1] LIMA, Marcelo A. - CAVALHEIRO, Renan P. - VIANA, Gustavo M. - MENEGHETTI, Maria C. Z. - RUDD, Timothy R. - SKIDMORE, Mark A. - POWELL, Andrew K. - YATES, Edwin

A. F-19 labelled glycosaminoglycan probes for solution NMR and non-linear (CARS) microscopy. In GLYCOCONJUGATE JOURNAL. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 405-410., Registrované v: WOS

4. [1.1] MACKIE, Alan R. - GOYCOOLEA, Francisco M. - MENCHICCHI, Bianca - CAMELLA, Carla Marcella - SAPORITO, Francesca - LEE, Seunghwan - STEPHANSEN, Karen - CHRONAKIS, Ioannis S. - HIORTH, Marianne - ADAMCZAK, Malgorzata - WALDNER, Max - NIELSEN, Hanne Morck - MARCELLONI, Luciano. Innovative Methods and Applications in Mucoadhesion Research. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2017, vol. 17, no. 8, pp., Registrované v: WOS

ADCA226

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. (2.469 - IF2009). (2010 - Current Contents). ISSN 0021-8561.

Citácie:

1. [1.1] BURUIANA, Cristian-Teodor - GOMEZ, Belen - VIZIREANU, Camelia - GARROTE, Gil. Manufacture and evaluation of xylooligosaccharides from corn stover as emerging prebiotic candidates for human health. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, 2017, vol. 77, no., pp. 449-459., Registrované v: WOS

2. [1.1] GOMEZ, Belen - MIGUEZ, Beatriz - YANEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 131-161., Registrované v: WOS

3. [1.1] JIANG, Sui-Xin - ZHAO, Shuai - LU, Chun-Yan - XUE, Jian-Long - DUAN, Cheng-Jie - FENG, Jia-Xun. A combined process is used for efficient isolation and purification of xylobiose from xylanase-hydrolysed sugarcane bagasse xylan hydrolysate. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 109, no., pp. 637-643., Registrované v: WOS

4. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In FOOD BIOTECHNOLOGY. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS

ADCA227

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. (3.458 - IF2010). (2011 - Current Contents). ISSN 0308-8146.

Citácie:

1. [1.1] GOMEZ, Belen - MIGUEZ, Beatriz - YANEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In WATER EXTRACTION OF BIOACTIVE COMPOUNDS: FROM PLANTS TO DRUG DEVELOPMENT, 2017, vol., no., pp. 131-161., Registrované v: WOS

2. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS

3. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS

4. [1.1] PU, Jianghua - ZHAO, Xia - XIAO, Lin - ZHAO, Haitao. Development and validation of a HILIC-ELSD method for simultaneous analysis of non-substituted and acetylated xylo-oligosaccharides. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2017, vol. 139, no., pp. 232-237., Registrované v: WOS

5. [1.1] RUIZ, Encarnacion - GULLON, Beatriz - MOURA, Patricia - CARVALHEIRO, Florbela - EIBES, Gemma - CARA, Cristobal - CASTRO, Eulogio. Bifidobacterial growth stimulation by oligosaccharides generated from olive tree pruning biomass. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 149-156., Registrované v: WOS

6. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass, 2017-06-01, pp. 45-94., Registrované v: SCOPUS

ADCA228

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. (3.376 - IF2015). (2016 - Current Contents). ISSN 0175-7598.

Citácie:

1. [1.1] CASA-VILLEGAS, Mary - MARIN-NAVARRO, Julia - POLAINA, Julio. Synergies in

- coupled hydrolysis and fermentation of cellulose using a Trichoderma reesei enzyme preparation and a recombinant Saccharomyces cerevisiae strain. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, 2017, vol. 33, no. 7, pp., Registrované v: WOS*
2. [1.1] DRUZHININA, Irina S. - KUBICEK, Christian P. Genetic engineering of Trichoderma reesei cellulases and their production. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, 2017, vol. 10, no. 6, pp. 1485-1499., Registrované v: WOS
3. [1.1] LI, Chengcheng - LIN, Fengming - ZHOU, Le - QIN, Lei - LI, Bingzhi - ZHOU, Zhihua - JIN, Mingjie - CHEN, Zhan. Cellulase hyper-production by Trichoderma reesei mutant SEU-7 on lactose. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
4. [1.1] LI, Zhonghai - LIU, Guodong - QU, Yinbo. Improvement of cellulolytic enzyme production and performance by rational designing expression regulatory network and enzyme system composition. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 245, no., pp. 1718-1726., Registrované v: WOS
5. [1.1] MENDEZ-LITER, J. A. - GIL-MUNOZ, J. - NIETO-DOMINGUEZ, M. - BARRIUSO, J. - DE EUGENIO, L. I. - MARTINEZ, M. J. A novel, highly efficient beta-glucosidase with a cellulose-binding domain: characterization and properties of native and recombinant proteins. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
6. [1.1] WANG, Xu - WU, Yanbo - ZHOU, Yu. Transglycosylation, a new role for multifunctional cellulase in overcoming product inhibition during the cellulose hydrolysis. In BIOENGINEERED. ISSN 2165-5979, 2017, vol. 8, no. 2, pp. 129-132., Registrované v: WOS
7. [1.1] XU, Xin-Qi - HAN, Wei - WU, Xiao-Bing - XIE, Yong - LIN, Juan - CHEN, Qing-Xi. Inactivation kinetics and conformation change of Hypocrea orientalis beta-glucosidase with guanidine hydrochloride. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2017, vol. 124, no. 2, pp. 143-149., Registrované v: WOS
- ADCA229 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.
Citácie:
1. [1.1] MARUTA, Akiho - YAMANE, Mirei - MATSUBARA, Midori - SUZUKI, Shiho - NAKAZAWA, Masami - UEDA, Mitsuhiro - SAKAMOTO, Tatsuji. A novel alpha-galactosidase from Fusarium oxysporum and its application in determining the structure of the gum arabic side chain. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 103, no., pp. 25-33., Registrované v: WOS
- ADCA230 HAGEN, I. - ECKER, M. - LAGORCE, A. - FRANCOIS, J.M. - ŠESTÁK, Sergej - RACHEL, R. - GROSSMANN, G. - HAUSER, N.C. - HOHEISEL, J.D. - TANNER, W. - STRAHL, S. Sed1p and Srl1p are required to compensate for cell wall instability in Saccharomyces cerevisiae mutants defective in multiple GPI-anchored mannoproteins. In Molecular Microbiology, 2004, vol. 52, p. 1413-1425. ISSN 0950-382X.
Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. Q01589. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q01589>, Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. Q08673. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q08673>, Registrované v: WOS
3. [1.1] Group Author(s): Uniprot Consortium. Q12127. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q12127>, Registrované v: WOS
4. [1.1] STEWART, Graham G. The Structure and Function of the Yeast Cell Wall, Plasma Membrane and Periplasm. In BREWING AND DISTILLING YEASTS, 2017, vol., no., pp. 55-75., Registrované v: WOS
- ADCA231 HANES, J. - ŠIMÚTH, Jozef. Identification and partial characterization of the major royal jelly protein of the honey bee (Apis mellifera). In Journal of Apicultural Research, 1992, vol. 31, p. 22-26. ISSN 0021-8839.
Citácie:
1. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele - CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In ONCOLOGY REPORTS. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrované v: WOS
2. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three Apis species with long amplicon sequencing. In DNA RESEARCH. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287., Registrované v: WOS

3. [1.1] MANDACARU, Samuel C. - DO VALE, Luis H. F. - VAHIDI, Siavash - XIAO, Yiming - SKINNER, Owen S. - RICART, Carlos A. O. - KELLEHER, Neil L. - DE SOUSA, Marcelo Valle - KONERMANN, Lars. Characterizing the Structure and Oligomerization of Major Royal Jelly Protein 1 (MRJP1) by Mass Spectrometry and Complementary Biophysical Tools. In *BIOCHEMISTRY*. ISSN 0006-2960, 2017, vol. 56, no. 11, pp. 1645-1655., Registrované v: WOS
- ADCA232 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 mammalian protein kinases. In *Journal of Molecular Biology*, 1994, vol.244, p. 665-672. ISSN 0022-2836.
- Citácie:
- [1.1] Author(s): Uniprot Consortium. P22518. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P22518>, Registrované v: WOS
 - [1.1] BATES, David O. - MORRIS, Jonathan C. - OLTEAN, Sebastian - DONALDSON, Lucy F. Pharmacology of Modulators of Alternative Splicing. In *PHARMACOLOGICAL REVIEWS*. ISSN 0031-6997, 2017, vol. 69, no. 1, pp. 63-79., Registrované v: WOS
 - [1.1] Group Author(s): Uniprot Consortium. P49759. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P49759>, Registrované v: WOS
 - [1.1] Group Author(s): Uniprot Consortium. P49760. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P49760>, Registrované v: WOS
 - [1.1] Group Author(s): Uniprot Consortium. P49761. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P49761>, Registrované v: WOS
 - [1.1] HATTING, Maximilian - RINES, Amy K. - LUO, Chi - TABATA, Mitsuhsa - SHARABI, Kfir - HALL, Jessica A. - VERDEGUER, Francisco - TRAUTWEIN, Christian - PUIGSERVER, Pere. Adipose Tissue CLK2 Promotes Energy Expenditure during High-Fat Diet Intermittent Fasting. In *CELL METABOLISM*. ISSN 1550-4131, 2017, vol. 25, no. 2, pp. 428-437., Registrované v: WOS
 - [1.1] MURAR, Miroslav - DOBIAS, Juraj - SRAMEL, Peter - ADDOVA, Gabriela - HANQUET, Gilles - BOHAC, Andrej. Novel CLK1 inhibitors based on N-aryloxazol-2-amine skeleton A possible way to dual VEGFR2 TK/CLK ligands. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2017, vol. 126, no., pp. 754-761., Registrované v: WOS
 - [1.1] RUIZ-VELASCO, Mariana - KUMAR, Manjeet - LAI, Mang Ching - BHAT, Pooja - SOLIS-PINSON, Ana Belen - REYES, Alejandro - KLEINSORG, Stefan - NOH, Kyung-Min - GIBSON, Toby J. - ZAUGG, Judith B. CTCF-Mediated Chromatin Loops between Promoter and Gene Body Regulate Alternative Splicing across Individuals. In *CELL SYSTEMS*. ISSN 2405-4712, 2017, vol. 5, no. 6, pp. 628-+, Registrované v: WOS
- ADCA233 HANES, Jozef - KLAUDINY, Jaroslav - VON DER KAMMER H - SCHEIT K.H. Characterization by cDNA cloning of the mRNA of human ribosomal protein L8. In *Biochemical and biophysical research communications*, 1993, vol. 197, p.1223-1228. ISSN 0006-291X.
- Citácie:
- [1.1] Group Author(s): Uniprot Consortium. P62917. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P62917>, Registrované v: WOS
- ADCA234 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. (4.450 - IF2011). (2012 - Current Contents). ISSN 0022-3263.
- Citácie:
- [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio-alpha-D-cellobioside for preparation of heparin thiodisaccharide building blocks. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS
- ADCA235 HANSEN, Steen Uldall - BARÁTH, Marek - SALAMEH, Bader A.B. - PRITCHARD, Robin G. - STIMPSON, William T. - GARDINER, John M. - JAYSON, Gordon C. Scalable Synthesis of L-Iduronic Acid Derivatives via Stereocontrolled Cyanohydrin Reaction for Synthesis of Heparin-Related Disaccharides. Bader A.B. Salameh, Robin G. Pritchard, William T. Stimpson, John M. Gardiner, Gordon C. Jayson. In *Organic Letters*, 2009, vol.11, no.20, pp.4528-4531.
- Citácie:
- [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio-alpha-D-cellobioside for preparation of heparin thiodisaccharide building blocks. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS
- ADCA236 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. (4.721 - IF2014). (2015 - Current Contents). ISSN 0022-3263.

Citácie:

1. [1.1] SHEERIN, Kevin - GUAZZELLI, Lorenzo - OSCARSON, Stefan. Large scale synthesis and regioselective protection schemes of ethyl 2-azido-2-deoxy-1-thio-alpha-D-cellobioside for preparation of heparin thiodisaccharide building blocks. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 440-441, no., pp. 16-31., Registrované v: WOS

ADCA237

HERMANN, M.C. - VRŠANSKÁ, Mária - JURÍČKOVÁ, M. - HIRSCH, Ján - BIELY, Peter - KUBICEK, C.P. The beta-D-xylosidase of *Trichoderma reesei* is a multifunctional beta-D-xyloxyhydrolase. In *Biochemical Journal*, 1997, vol.321, p. 375-381. ISSN 0264-6021.

Citácie:

1. [1.1] LONG, Chuannan - CUI, Jingjing - LI, Hailong - LIU, Jian - GAN, Lihui - ZENG, Bin - LONG, Minnan. Improvement in xylooligosaccharides production by knockout of the beta-xyll gene in *Trichoderma orientalis* EU7-22. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.2] KUMAR, Santhosh - ARUMUGAM, Nanthakumar - PERMAUL, Kugenthiren - SINGH, Suren. Thermostable enzymes and their industrial applications. In *Microbial Biotechnology: An Interdisciplinary Approach*, 2016-12-01, pp. 115-162., Registrované v: SCOPUS

ADCA238

HIRSCH, Ján - PETRÁKOVÁ, Eva - FEATHER, M.S. The reaction of some dicarbonyl sugars with aminoguanidine. In *Carbohydrate Research*, 1992, vol. 232, p. 125-130. (1.299 - IF1991). ISSN 0008-6215.

Citácie:

1. [1.1] LUND, Marianne N. - RAY, Colin A. Control of Maillard Reactions in Foods: Strategies and Chemical Mechanisms. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 23, pp. 4537-4552., Registrované v: WOS

ADCA239

HOSANG, K. - KNOKE, I. - KLAUDINY, Jaroslav - WEMPE, F. - WUTTKE, W. - SCHEIT, K.H. Porcine luteal cells express monocyte chemoattractant protein-2 (MCP-2) - analysis by CDNA cloning and Northern analysis. In *Biochemical and biophysical research communications*, 1994, vol. 205, p. 148-153. ISSN 0006-291X.

Citácie:

1. [1.1] Group Author(s): Uniprot Consortium. P49873. In: *UniProt Knowledgebase Source* URL: <http://www.uniprot.org/uniprot/P49873>, Registrované v: WOS

ADCA240

HOSANG, K. - KNOKE, I. - KLAUDINY, Jaroslav - WEMPE, F. - WUTTKE, W. - SCHEIT, K.H. Porcine luteal cells express monocyte chemoattractant protein-1 (MCP-1) - analysis by polymerase chain reaction and CDNA cloning. In *Biochemical and biophysical research communications*, 1994, vol. 199, p. 962-968. ISSN 0006-291X.

Citácie:

1. [1.1] Group Author(s): Uniprot Consortium. P42831. In: *UniProt Knowledgebase Source* URL: <http://www.uniprot.org/uniprot/P42831>, Registrované v: WOS

ADCA241

HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: evaluation of antioxidative effect of cysteine-derived compounds. In *Chemistry & biodiversity*, 2012, vol. 9, no. 2, p. 309-317. (1.804 - IF2011). (2012 - Current Contents). ISSN 1612-1872.(VEGA č. 2/0011/11 : Štúdium pôsobenia reaktívnych foriem kyslíka a dusíka na vysokomolekulový hyaluronan, 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. VEGA č. 2/0083/09 : Energetický metabolismus mozgu sledovaný pomocou magnetickej rezonancie ako podklad pre štúdium mechanizmov hypoxicko-ischemického poškodenia mozgu novorodenca. ITMS 26240220040 : Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení).

Citácie:

1. [1.2] PIZZO, S.V. - LUNDBLAD, R.L. - WILLIS, M.S. Proteolysis in the interstitial space. (Book Chapter). In *PROTEOLYSIS IN THE INTERSTITIAL SPACE*. CRC Press, 2016, p. 1-297. ISBN 978-146657208-9;978-146657207-2, Registrované v: SCOPUS

2. [3.1] HSU, L.J. - CHIANG, M.F. - SZE, C.I. - SU, W.P. - YAP, Y.V. - LEE, I.T. - KUO, H.L. - CHANG, N.S. HYAL-2-WWOX-SMAD4 Signaling in Cell Death and Anticancer Response. In *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*. ISSN 2296-634X (Electronic), 2016, vol. 4, art. no. 141, 11 p. doi: 10.3389/fcell.2016.00141

ADCA242

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. (2.332 - IF2011). (2012 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] HALAY, Erkan - AY, Emriye - SALVA, Emine - AY, Kadir - KARAYILDIRIM, Tamer. Syntheses of 1,2,3-triazole-bridged pyranose sugars with purine and pyrimidine nucleobases and evaluation of their anticancer potential. In NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS. ISSN 1525-7770, 2017, vol. 36, no. 9, pp. 598-619., Registrované v: WOS
2. [1.1] WU, Shaoping - YANG, Lili - SUN, Wenji - SI, Longlong - XIAO, Sulong - WANG, Qi - DECHOUX, Luc - THORIMBERT, Serge - SOLLOGOUB, Matthieu - ZHOU, Demin - ZHANG, Yongmin. Design, synthesis and biological evaluation of gentiopicricoside derivatives as potential antiviral inhibitors. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 130, no., pp. 308-319., Registrované v: WOS

ADCA243 HRICOVÍNI, Michal - HRICOVÍNI, Miloš. Photochemically-induced anti-syn isomerization of quinazolinone derived Schiff's bases: EPR, NMR and DFT analysis. In Tetrahedron, 2017, vol. 73, p. 252-261. (2.651 - IF2016). (2017 - Current Contents). ISSN 0040-4020.

Citácie:

1. [1.1] BEYAZIT, Neslihan - ÇAKMAK, Didem - DEMETGUL, Cahit. Chromone-based Schiff base metal complexes as catalysts for catechol oxidation: Synthesis, kinetics and electrochemical studies. In TETRAHEDRON. ISSN 0040-4020, 2017, vol. 73, no. 19, pp. 2774-2779., Registrované v: WOS
2. [1.1] KHAN, Salman A. - ASIRI, Abdullah M. Physicochemical properties of novel methyl 2-[(E)-[(2-hydroxynaphthalen-1-yl)methylidene]amino]-4,5,6,7-tetrahydro-1-benzothiophene-3-carboxylate as turn-off fluorometric chemosensor for detection Fe³⁺ ion. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 243, no., pp. 85-90., Registrované v: WOS

ADCA244 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.

Citácie:

1. [1.1] DE WILDT, William - KOOLJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. Extended Physicochemical Characterization of the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS
2. [1.1] MOURIER, Pierre A. J. - GUICHARD, Olivier Y. - HERMAN, Frederic - SIZUN, Philippe - VISKOV, Christian. New Insights in Thrombin Inhibition Structure-Activity Relationships by Characterization of Octadecasaccharides from Low Molecular Weight Heparin. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS
3. [1.1] WANG, Xu. NMR Studies of Protein-Glycosaminoglycan Interactions. In NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY. ISSN 2044-253X, 2017, vol. 10, no., pp. 250-268., Registrované v: WOS
4. [1.1] YANG, Jiyuan - CHI, Lianli. Characterization of structural motifs for interactions between glycosaminoglycans and proteins. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 54-63., Registrované v: WOS

ADCA245 HRICOVÍNI, Miloš - GUERRINI, M. - BISIO, A. Structure of heparin-derived tetrasaccharide complexed to the plasma protein antithrombin derived from NOEs, J-couplings and chemical shifts. In European Journal of Biochemistry, 1999, vol. 261, p. 789-801. (3.249 - IF1998). (1999 - Current Contents). ISSN 0014-2956.

Citácie:

1. [1.1] MOTHERE, Mouna - SINGABRAYA, Dominique - DRIGUEZ, Pierre-Alexandre - SENERIZ, Fernando - PAPY-GARCIA, Dulce. Poly(ethylene glycol acrylate)-functionalized hydrogels for heparan sulfate oligosaccharide recognition. In JOURNAL OF MOLECULAR RECOGNITION. ISSN 0952-3499, 2017, vol. 30, no. 3, pp., Registrované v: WOS

ADCA246 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. (1.703 - IF2006). (2007 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] HUANG, Teng-Yi - IRENE, Deli - ZULUETA, Medel Manuel L. - TAI, Tzu-Jui - LAIN, Shih-Han - CHENG, Cheng-Po - TSAI, Ping-Xi - LIN, Shu-Yi - CHEN, Zhi-Geng - KU, Chiao-Chu - HSIAO, Chwan-Deng - CHYAN, Chia-Lin - HUNG, Shang-Cheng. Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2017, vol. 56, no. 15, pp. 4192-4196., Registrované v: WOS

ADCA247 HRICOVÍNI, Miloš - DRIGUEZ, Pierre-Alexandre - MALKINA, Olga. NMR and DFT analysis of

trisaccharide from heparin repeating sequence. In *Journal of Physical Chemistry B*, 2014, vol. 118, no. 41, p. 11931-11942. (3.377 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.

Citácie:

1. [1.1] HUANG, Teng-Yi - IRENE, Deli - ZULUETA, Medel Manuel L. - TAI, Tzu-Jui - LAIN, Shih-Han - CHENG, Cheng-Po - TSAI, Ping-Xi - LIN, Shu-Yi - CHEN, Zhi-Geng - KU, Chiao-Chu - HSIAO, Chwan-Deng - CHYAN, Chia-Lin - HUNG, Shang-Cheng. *Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2017, vol. 56, no. 15, pp. 4192-4196., Registrované v: WOS
2. [1.1] HUANG, Teng-Yi - IRENE, Deli - ZULUETA, Medel Manuel L. - TAI, Tzu-Jui - LAIN, Shih-Han - CHENG, Cheng-Po - TSAI, Ping-Xi - LIN, Shu-Yi - CHEN, Zhi-Geng - KU, Chiao-Chu - HSIAO, Chwan-Deng - CHYAN, Chia-Lin - HUNG, Shang-Cheng. *Structure of the Complex between a Heparan Sulfate Octasaccharide and Mycobacterial Heparin-Binding Hemagglutinin. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2017, vol. 56, no. 15, pp. 4192-4196., Registrované v: WOS
3. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. *Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS
4. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. *Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS
5. [1.1] MOHAMED, Slim Hadj - TRABELSI, Mahmoud - CHAMPAGNE, Benoit. *Assigning the stereochemistry of syn and anti beta-trimethylsiloxy-alpha-trimethylsilyl alkanolic acid silyl esters using GIAO H-1 NMR chemical shift calculations. In JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2017, vol. 1141, no., pp. 436-440., Registrované v: WOS
6. [1.1] MOHAMED, Slim Hadj - TRABELSI, Mahmoud - CHAMPAGNE, Benoit. *Assigning the stereochemistry of syn and anti beta-trimethylsiloxy-alpha-trimethylsilyl alkanolic acid silyl esters using GIAO H-1 NMR chemical shift calculations. In JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2017, vol. 1141, no., pp. 436-440., Registrované v: WOS

ADCA248 HRICOVÍNI, Miloš. Effect of solvent and counterions upon structure and NMR spin - spin coupling constants in heparin disaccharide. In *Journal of physical chemistry B. Materials, surfaces, interfaces, and biophysical*, 2011, vol. 115, p. 1503-1511. (3.603 - IF2010). (2011 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.

Citácie:

1. [1.1] ALIPOUR, Mojtaba. *How reliable are Minnesota density functionals for modeling phosphorus-hydrogen NMR spin-spin coupling constants? In THEORETICAL CHEMISTRY ACCOUNTS*. ISSN 1432-881X, 2017, vol. 137, no. 1, pp., Registrované v: WOS

ADCA249 HRICOVÍNI, Miloš. Solution structure of heparin pentasaccharide: NMR and DFT analysis. In *Journal of Physical Chemistry B*, 2015, vol. 119, p. 12397-12409. (3.302 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.

Citácie:

1. [1.1] CHASHMNIAM, Saeed - TAFAZZOLI, Mohsen. *Conformation of repaglinide: A solvent dependent structure. In JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2017, vol. 1143, no., pp. 388-396., Registrované v: WOS
2. [1.1] CHASHMNIAM, Saeed - TAFAZZOLI, Mohsen. *NMR investigation and theoretical calculations of the solvent effect on the conformation of valsartan. In JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2017, vol. 1148, no., pp. 73-80., Registrované v: WOS
3. [1.1] DE WILDT, William - KOOLJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. *Extended Physicochemical Characterization of the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS
4. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. *Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS

- ADCA250 HRICOVÍNIOVÁ, Zuzana. Surfactants of biological origin: The role of Mo(VI) and microwaves in the synthesis of xylan-based non-ionic surfactants. In *Carbohydrate Polymers*, 2016, vol. 144, p. 297-304. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.
Citácie:
1. [1.1] MANHAS, Sanjay - TAYLOR, Mark S. Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 21, pp. 11406-11417., Registrované v: WOS
- ADCA251 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.
Citácie:
1. [1.1] GHIMIRE, Prakriti Sharma - JIN, Cheng. Genetics, Molecular, and Proteomics Advances in Filamentous Fungi. In *CURRENT MICROBIOLOGY*. ISSN 0343-8651, 2017, vol. 74, no. 10, pp. 1226-1236., Registrované v: WOS
2. [1.1] RODRIGUES, Alexandre Gomes. Endo-beta-1,4-xylanase: An Overview of Recent Developments. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 125-149., Registrované v: WOS
3. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
- ADCA252 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. (2006 - Current Contents). ISSN 0264-6021.
Citácie:
1. [1.1] OUYANG, Hanlin - XU, Feng. The Role and Applications of beta-Glucosidases in Biomass Degradation and Bioconversion. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 47-75., Registrované v: WOS
2. [1.1] TORKI, M. - MIRZAEI, M. - HABIBIAN, M. Effects of Barley Cultivar and Dietary Supplemental enzyme on Performance, Egg Quality Traits, and Selected Blood Parameters of Laying Hens. In *POULTRY SCIENCE JOURNAL*. ISSN 2345-6604, 2016, vol. 4, no. 1, pp. 1-12., Registrované v: WOS
3. [1.1] VOSS-FELS, Kai P. - QIAN, Lunwen - PARRA-LONDONO, Sebastian - UPTMOOR, Ralf - FRISCH, Matthias - KEEBLE-GAGNERE, Gabriel - APPELS, Rudi - SNOWDON, Rod J. Linkage drag constrains the roots of modern wheat. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2017, vol. 40, no. 5, pp. 717-725., Registrované v: WOS
- ADCA253 HRMOVÁ, Mária - BIELY, Peter - VRŠANSKÁ, Mária. Cellulose degrading and xylan-degrading enzymes of *Aspergillus terreus* and *Aspergillus niger*. In *Enzyme and Microbial Technology*, 1989, vol. 11, p. 610-616. ISSN 0141-0229.
Citácie:
1. [1.1] BARTON-PUDLIK, Joanna - CZAJA, Krystyna - GRZYMEK, Marek - LIPOK, Jacek. Evaluation of wood-polyethylene composites biodegradability caused by filamentous fungi. In *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*. ISSN 0964-8305, 2017, vol. 118, no., pp. 10-18., Registrované v: WOS
2. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS
3. [1.1] TERESA ALVAREZ-ZUNIGA, Maria - SANTIAGO-HERNANDEZ, Alejandro - RODRIGUEZ-MENDOZA, Johan - CAMPOS, Jorge E. - PAVON-OROZCO, Patricia - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. Taxonomic identification of the thermotolerant and fast-growing fungus *Lichtheimia ramosa* H71D and biochemical characterization of the thermophilic xylanase LrXynA. In *AMB EXPRESS*. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA254 HRMOVÁ, Mária - DROBNICA, L. Induction of mycelial type of development in *Candida albicans* by the antibiotic monorden and N-acetyl-D-glucosamine. In *Mycopathologia*, 1982, vol. 76, p. 55-64. ISSN 0301-486X.
Citácie:
1. [1.1] PATAKI, Emese - SIPICZKI, Matthias - MIKLOS, Ida. Schizosaccharomyces pombe rsv1 Transcription Factor and its Putative Homologues Preserved their Functional Homology and are

- Evolutionarily Conserved. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2017, vol. 74, no. 6, pp. 710-717., Registrované v: WOS*
- ADCA255 HRMOVÁ, Mária - FARKAŠ, Vladimír - HARVEY, A.J. - LAHNSTEIN, J. - WISCHMANN, B. - KAEWTHAI, N. - EZCURRA, I. - TEERI, T.T. - FINCHER, G.B. Substrate specificity and catalytic mechanism of a xyloglucan xyloglucosyl transferase HvXET6 from barley (*Hordeum vulgare* L.). In FEBS Journal, 2009, vol. 276, p. 437-456. (3.139 - IF2008). (2009 - Current Contents). ISSN 1742-464X.
- Citácie:
1. [1.1] HURA, Tomasz - DZIURKA, Michal - HURA, Katarzyna - OSTROWSKA, Agnieszka - DZIURKA, Kinga - GADZINOWSKA, Joanna. Wheat and rye genome confer specific phytohormone profile features and interplay under water stress in two phenotypes of triticale. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 118, no., pp. 494-509., Registrované v: WOS
- ADCA256 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. (6.963 - IF1997). (1998 - Current Contents). ISSN 0021-9258.
- Citácie:
1. [1.1] EZEILO, Uchenna Regina - ZAKARIA, Iffah Izzati - HUYOP, Fahrul - WAHAB, Roswanira Abdul. Enzymatic breakdown of lignocellulosic biomass: the role of glycosyl hydrolases and lytic polysaccharide monooxygenases. In BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT. ISSN 1310-2818, 2017, vol. 31, no. 4, pp. 647-662., Registrované v: WOS
2. [1.1] KUUSK, Silja - VALJAMAE, Priit. When substrate inhibits and inhibitor activates: implications of beta-glucosidases. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
3. [1.1] OUYANG, Hanlin - XU, Feng. The Role and Applications of beta-Glucosidases in Biomass Degradation and Bioconversion. In MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS. ISSN 2363-7609, 2016, vol. 3, no., pp. 47-75., Registrované v: WOS
4. [1.1] SINHA, Sushant K. - GOSWAMI, Shubhashish - DAS, Shibashis - DATTA, Supratim. Exploiting non-conserved residues to improve activity and stability of *Halothermothrix orenii* beta-glucosidase. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1455-1463., Registrované v: WOS
5. [1.2] KHAIRUDIN, Nurulbahiyah Ahmad - SHAMELI, Kamyar - MIYAKE, Mikio - MAZLAN, Nur Shima Fadhilah. Insight into cellopentaose binding mode in glycone and aglycone binding site of Beta-Glucosidase B: A molecular dynamics approach. In Journal of Engineering and Applied Sciences. ISSN 1816949X, 2017-01-01, 12, specialissue12, pp. 9440-9443., Registrované v: SCOPUS
- ADCA257 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] BENOCCI, Tiziano - AGUILAR-PONTES, Maria Victoria - ZHOU, Miaomiao - SEIBOTH, Bernhard - DE VRIES, Ronald P. Regulators of plant biomass degradation in ascomycetous fungi. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
2. [1.1] GHIMIRE, Prakriti Sharma - JIN, Cheng. Genetics, Molecular, and Proteomics Advances in Filamentous Fungi. In CURRENT MICROBIOLOGY. ISSN 0343-8651, 2017, vol. 74, no. 10, pp. 1226-1236., Registrované v: WOS
3. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99., Registrované v: WOS
4. [1.1] TERESA ALVAREZ-ZUNIGA, Maria - SANTIAGO-HERNANDEZ, Alejandro - RODRIGUEZ-MENDOZA, Johan - CAMPOS, Jorge E. - PAVON-OROZCO, Patricia - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. Taxonomic identification of the thermotolerant and fast-growing fungus *Lichtheimia ramosa* H71D and biochemical characterization of the thermophilic xylanase LrXynA. In AMB EXPRESS. ISSN 2191-0855, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA258 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. (5.808 - IF2006). (2007

- Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] MCGREGOR, Nicholas - YIN, Victor - TUNG, Ching-Chieh - VAN PETEGEM, Filip - BRUMER, Harry. Crystallographic insight into the evolutionary origins of xyloglucan endotransglucosylases and endohydrolases. In *PLANT JOURNAL*. ISSN 0960-7412, 2017, vol. 89, no. 4, pp. 651-670., Registrované v: WOS
2. [1.1] SHARPLES, Sandra C. - NGUYEN-PHAN, Tu C. - FRY, Stephen C. Xyloglucan endotransglucosylase/hydrolases (XTHs) are inactivated by binding to glass and cellulosic surfaces, and released in active form by a heat-stable polymer from cauliflower florets. In *JOURNAL OF PLANT PHYSIOLOGY*. ISSN 0176-1617, 2017, vol. 218, no., pp. 135-143., Registrované v: WOS
3. [1.1] SHINOHARA, Naoki - SUNAGAWA, Naoki - TAMURA, Satoru - YOKOYAMA, Ryusuke - UEDA, Minoru - IGARASHI, Kiyohiko - NISHITANI, Kazuhiko. The plant cell-wall enzyme AtXTH3 catalyses covalent cross-linking between cellulose and cello-oligosaccharide. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA259

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.

Citácie:

1. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS
2. [1.1] IVETIC, Darjana Z. - OMORJAN, Radovan P. - DORDEVIC, Tatjana R. - ANTOV, Mirjana G. The Impact of Ultrasound Pretreatment on the Enzymatic Hydrolysis of Cellulose from Sugar Beet Shreds: Modeling of the Experimental Results. In *ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY*. ISSN 1944-7442, 2017, vol. 36, no. 4, pp. 1164-1172., Registrované v: WOS
3. [1.1] SOURKI, Abdollah Hematian - KOOCHKEI, Arash - ELAHI, Mohammad. Ultrasound-assisted extraction of beta-D-glucan from hull-less barley: Assessment of physicochemical and functional properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 95, no., pp. 462-475., Registrované v: WOS
4. [1.1] TAVAKOLPOUR, Yousef - MOOSAVI-NASAB, Marzieh - NIAKOUSARI, Mehrdad - HAGHIGHI-MANESH, Soroush - HASHEMI, Seyed Mohammad Bagher - KHANEGHAH, Amin Mousavi. COMPARISON OF FOUR EXTRACTION METHODS FOR ESSENTIAL OIL FROM THYMUS DAENENSIS SUBSP LANCIFOLIUS AND CHEMICAL ANALYSIS OF EXTRACTED ESSENTIAL OIL. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2017, vol. 41, no. 4, pp., Registrované v: WOS
5. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. MODELING AND OPTIMIZATION OF ULTRASOUND ASSISTED EXTRACTION PARAMETERS USING RESPONSE SURFACE METHODOLOGY FOR WATER SOLUBLE POLYSACCHARIDE EXTRACTION FROM HAZELNUT SKIN. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
6. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In *Current Advances in Biopolymer Processing and Characterization*, 2017-01-01, pp. 49-75., Registrované v: SCOPUS

ADCA260

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.

Citácie:

1. [1.1] LANEZ, Touhami - BEN HAOUA, Khaoula. THE EFFECT OF SOXHLET AND ULTRASONIC-ASSISTED EXTRACTION ON ANTIOXIDANT COMPONENTS AND ANTIOXIDANT PROPERTIES OF SELECTED SOUTH ALGERIAN RED POTATOES CULTIVARS. In *SCIENTIFIC STUDY AND RESEARCH-CHEMISTRY AND CHEMICAL ENGINEERING BIOTECHNOLOGY FOOD INDUSTRY*. ISSN 1582-540X, 2017, vol. 18, no. 4, pp. 435-448., Registrované v: WOS
2. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS
3. [1.1] Pan, Feng; Yao, Yunxin; Tang, Xin; Wu, Wei. Physicochemical property and antioxidant activity of exopolysaccharide produced by endophytic fungal *Fusarium redolens* 6WBY3 isolated from *Fritillaria unibracteata* var. *wabuensis*. In: *Weishengwu Xuebao* Volume: 57 Issue: 2 Pages: 240-253, Registrované v: WOS

4. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS
5. [1.1] YANG, Na - ZHANG, Nannan - JIN, Yamei - JIN, Zhengyu - XU, Xueming. Development of a fluidic system for efficient extraction of mulberry leaves polysaccharide using induced electric fields. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2017, vol. 172, no., pp. 318-325., Registrované v: WOS
6. [1.1] YANG, Shangying - LI, Ying - JIA, Dongying - YAO, Kai - LIU, Weijuan. The synergy of Box-Behnken designs on the optimization of polysaccharide extraction from mulberry leaves. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 99, no., pp. 70-78., Registrované v: WOS
7. [1.1] ZHOU, J. - DU, X-H. - DONG, L-M. Separation and identification of esters from ultrasonic extraction of Shengli lignite in a toluene/ethanol mixed solvent. In *ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS*. ISSN 1556-7036, 2017, vol. 39, no. 11, pp. 1097-1101., Registrované v: WOS
8. [1.1] ZHOU, J. - SHI, C-L. Ultrasonic extraction of Xinjiang Changyan coal and GC/MS analysis of its soluble compounds. In *ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS*. ISSN 1556-7036, 2017, vol. 39, no. 5, pp. 514-519., Registrované v: WOS
9. [1.2] LANEZ, Touhami - BEN HAOUA, Khaoula. The effect of soxhlet and ultrasonic-assisted extraction on antioxidant components and antioxidant properties of selected south Algerian red potatoes cultivars. In *Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry*. ISSN 1582540X, 2017-01-01, 18, 4, pp. 435-448., Registrované v: SCOPUS

ADCA261

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.

Citácie:

1. [1.1] CHEMAT, Smain - AISSA, Abdallah - BOUMECHHOUR, Abdenour - AROUS, Omar - AIT-AMAR, Hamid. Extraction mechanism of ultrasound assisted extraction and its effect on higher yielding and purity of artemisinin crystals from *Artemisia annua* L. leaves. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 34, no., pp. 310-316., Registrované v: WOS
2. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS
3. [1.1] LI, Kexin - MA, Haile - LI, Shujun - ZHANG, Cunsheng - DAI, Chunhua. Effect of Ultrasound on Alkali Extraction Protein from Rice Dreg Flour. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2017, vol. 40, no. 2, pp., Registrované v: WOS
4. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS
5. [1.1] NIPHADKAR, Sonali S. - RATHOD, Virendra K. Extraction of acetyl 11-keto-beta-boswellic acids (AKBA) from *Boswellia serrata* using ultrasound. In *SEPARATION SCIENCE AND TECHNOLOGY*. ISSN 0149-6395, 2017, vol. 52, no. 6, pp. 997-1005., Registrované v: WOS
6. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. Characterization of xylan from rice bran and finger millet seed coat for functional food applications. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2017, vol. 75, no., pp. 296-305., Registrované v: WOS
7. [1.1] PEREIRA, Marlene G. - HAMERSKI, Fabiane - ANDRADE, Eriel F. - SCHEER, Agnes de P. - CORAZZA, Marcos L. Assessment of subcritical propane, ultrasound-assisted and Soxhlet extraction of oil from sweet passion fruit (*Passiflora alata* Curtis) seeds. In *JOURNAL OF SUPERCRITICAL FLUIDS*. ISSN 0896-8446, 2017, vol. 128, no., pp. 338-348., Registrované v: WOS
8. [1.1] RUTHES, Andrea C. - MARTINEZ-ABAD, Antonio - TAN, Hwei-Ting - BULONE, Vincent - VILAPLANA, Francisco. Sequential fractionation of feruloylated hemicelluloses and oligosaccharides from wheat bran using subcritical water and xylanolytic enzymes. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 8, pp. 1919-1931., Registrované v: WOS
9. [1.2] SAFIN, Ruslan R. - NAZIPOVA, Farida V. - KHASANSHIN, Ruslan R. - VORONIN,

Alexander E. Pre-treatment of vegetable waste in the production of composite materials. In *Key Engineering Materials*. ISSN 10139826, 2017-01-01, 743 KEM, pp. 53-57., Registrované v: SCOPUS

ADCA262

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. ISSN 1350-4177.

Citácie:

1. [1.1] BEN ROMDHANE, Molka - KRICHEN, Fatma - GHAZALA, Imen - ELLOUZ-CHAABOUNI, Semia - HADDAR, Anissa. EFFECT OF EXTRACTION METHODS ON CHEMICAL COMPOSITION, ANGIOTENSIN I-CONVERTING ENZYME INHIBITORY AND ANTIOXIDANT ACTIVITY OF COFFEE RESIDUE. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
2. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleracea*). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS
3. [1.1] EGOVA, E. Yu. - KHMELEV, V. N. - MOROZHENKO, Yu. V. - REZNICHENKO, I. Yu. PRODUCTION OF VEGETABLE "MILK" FROM OIL CAKES USING ULTRASONIC CAVITATION. In *FOODS AND RAW MATERIALS*. ISSN 2308-4057, 2017, vol. 5, no. 2, pp. 24-35., Registrované v: WOS
4. [1.1] FRITSCH, Caroline - STAEBLER, Andreas - HAPPEL, Anton - CUBERO MARQUEZ, Miguel Angel - AGUILO-AGUAYO, Ingrid - ABADIAS, Maribel - GALLUR, Miriam - CIGOGNINI, Ilaria Maria - MONTANARI, Angela - JOSE LOPEZ, Maria - SUAREZ-ESTRELLA, Francisca - BRUNTON, Nigel - LUENGO, Elisa - SISTI, Laura - FERRI, Maura - BELOTTI, Gianluca. Processing, Valorization and Application of Bio-Waste Derived Compounds from Potato, Tomato, Olive and Cereals: A Review. In *SUSTAINABILITY*. ISSN 2071-1050, 2017, vol. 9, no. 8, pp., Registrované v: WOS
5. [1.1] KAYA, Esra - TUNCEL, Necati Baris - TUNCEL, Nese Yilmaz. The effect of ultrasound on some properties of pulse hulls. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE*. ISSN 0022-1155, 2017, vol. 54, no. 9, pp. 2779-2788., Registrované v: WOS
6. [1.1] LI, Kexin - MA, Haile - LI, Shujun - ZHANG, Cunsheng - DAI, Chunhua. Effect of Ultrasound on Alkali Extraction Protein from Rice Dreg Flour. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2017, vol. 40, no. 2, pp., Registrované v: WOS
7. [1.1] SALIH, G. A. - AHMAD-RAUS, R. - SHABAN, M. N. - ABDULLAH, N. Extraction and purification of cytotoxic compounds from *Premna serratifolia* L. (bebuas) for human breast cancer treatment. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2017, vol. 24, no., pp. S281-S286., Registrované v: WOS
8. [1.1] YILMAZ, Tuncay - TAVMAN, Sebnem. MODELING AND OPTIMIZATION OF ULTRASOUND ASSISTED EXTRACTION PARAMETERS USING RESPONSE SURFACE METHODOLOGY FOR WATER SOLUBLE POLYSACCHARIDE EXTRACTION FROM HAZELNUT SKIN. In *JOURNAL OF FOOD PROCESSING AND PRESERVATION*. ISSN 0145-8892, 2017, vol. 41, no. 2, pp., Registrované v: WOS
9. [1.2] DAS, Amit K. - ADSARE, Sachin R. - DAS, Madhuchhanda - KULTHE, Pankaj S. - GANESAN, P. Advanced techniques in extraction of phenolics from cereals, pulses, fruits, and vegetables. In *Plant Secondary Metabolites: Volume II: Stimulation, Extraction, and Utilization*, 2017-01-01, pp. 27-76., Registrované v: SCOPUS
10. [1.2] NAVYA, Pagolu - KHORA, Samantha S. Ultrasonic-enhanced and hot water extraction of antioxidant sulfated polysaccharides from *Codium tomentosum* stackhouse, 1797. In *Biomedical Research (India)*. ISSN 0970938X, 2017-01-01, 28, 20, pp. 8616-8623., Registrované v: SCOPUS
11. [1.2] YOO, Sang Hun - CHANG, Yoon Hyuk. Effects of extraction methods on in vitro biological capacities and rheological properties of polysaccharides from red pepper stems. In *Preventive Nutrition and Food Science*. ISSN 22871098, 2017-09-01, 22, 3, pp. 223-230., Registrované v: SCOPUS
12. [1.2] ZHUANG, Xuhui - ZHAO, Chen - LIU, Keshun - RUBINELLI, Peter M. - RICKE, Steven C. - ATUNGULU, Griffiths G. Cereal Grain Fractions as Potential Sources of Prebiotics: Current Status, Opportunities, and Potential Applications. In *Food and Feed Safety Systems and Analysis*, 2017-10-16, pp. 173-191., Registrované v: SCOPUS

ADCA263

HROMÁDKOVÁ, Zdenka - PAULSEN, Berit Smestad - POLOVKA, Martin - KOŠŤÁLOVÁ, 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. (3.479 - IF2012). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] FRITSCH, Caroline - STAEBLER, Andreas - HAPPEL, Anton - CUBERO MARQUEZ,

- Miguel Angel - AGUILO-AGUAYO, Ingrid - ABADIAS, Maribel - GALLUR, Miriam - CIGOGNINI, Ilaria Maria - MONTANARI, Angela - JOSE LOPEZ, Maria - SUAREZ-ESTRELLA, Francisca - BRUNTON, Nigel - LUENGO, Elisa - SISTI, Laura - FERRI, Maura - BELOTTI, Gianluca. Processing, Valorization and Application of Bio-Waste Derived Compounds from Potato, Tomato, Olive and Cereals: A Review. In *SUSTAINABILITY*. ISSN 2071-1050, 2017, vol. 9, no. 8, pp., Registrované v: WOS
2. [1.1] HAN, Wenfang - LI, Jiangtao - DING, Yuqin - XIONG, Shanbai - ZHAO, Siming. Structural Features, Antitumor and Antioxidant Activities of Rice Bran Polysaccharides Using Different Extraction Methods. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2017, vol. 82, no. 10, pp. 2403-2410., Registrované v: WOS
3. [1.1] KIM, Hoon - HONG, Hee-Do - SHIN, Kwang-Soon. Structure elucidation of an immunostimulatory arabinoxylan-type polysaccharide prepared from young barley leaves (*Hordeum vulgare* L.). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 282-293., Registrované v: WOS
4. [1.1] LI, Jie - DU, Jinhua - WU, Xiaoying - ZHANG, Zhao';An - ZHANG, Kaili. Changes in crude arabinoxylan during cloudy wheat beer brewing on a production scale. In *JOURNAL OF THE INSTITUTE OF BREWING*. ISSN 0046-9750, 2017, vol. 123, no. 2, pp. 192-198., Registrované v: WOS
5. [1.1] SHEN, Ting - WANG, Gongcheng - YOU, Long - ZHANG, Liang - REN, Haiwei - HU, Weicheng - QIANG, Qian - WANG, Xinfeng - JIA, Lilian - GU, Zhengzhong - ZHAO, Xiangxiang. Polysaccharide from wheat bran induces cytokine expression via the toll-like receptor 4-mediated p38 MAPK signaling pathway and prevents cyclophosphamide-induced immunosuppression in mice. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2017, vol. 61, no., pp., Registrované v: WOS
6. [1.1] WANG, Zhi-Jun - XIE, Jian-Hua - NIE, Shao-Ping - XIE, Ming-Yong. Review on cell models to evaluate the potential antioxidant activity of polysaccharides. In *FOOD & FUNCTION*. ISSN 2042-6496, 2017, vol. 8, no. 3, pp. 915-926., Registrované v: WOS

ADCA264

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. (1.966 - IF2013). (2014 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] GRABOWSKA, Karolina - PODOLAK, Irma - GALANTY, Agnieszka - ZMUDZKI, Pawel - KOCZURKIEWICZ, Paulina - PISKA, Kamil - PEKALA, Elzbieta - JANECZKO, Zbigniew. Two new triterpenoid saponins from the leaves of *Impatiens parviflora* DC. and their cytotoxic activity. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 96, no., pp. 71-79., Registrované v: WOS
2. [1.1] HUANG, Chao - CAO, Xiyue - CHEN, Xingfu - FU, Yuping - ZHU, Yingguo - CHEN, Zhengli - LUO, Qihui - LI, Lixia - SONG, Xu - JIA, Renyong - YIN, Zhongqiong - FENG, Bin - ZOU, Yuanfeng. A pectic polysaccharide from *Ligusticum chuanxiong* promotes intestine antioxidant defense in aged mice. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 915-922., Registrované v: WOS
3. [1.1] LI, Shuhong - GAO, Ang - DONG, Shuang - CHEN, Ye - SUN, Shuang - LEI, Zhongfang - ZHANG, Zhenya. Purification, antitumor and immunomodulatory activity of polysaccharides from soybean residue fermented with *Morchella esculenta*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 96, no., pp. 26-34., Registrované v: WOS
4. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo *Phyllostachys aurea*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS
5. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvald - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI, Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of *Ligusticum chuanxiong*. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS
6. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvald - INNGJERDINGEN, Kari Tvete - HUANG, Chao - LEI, Fei-Yi - SONG, Xu - LI, Lixia - YE, Gang - ETICHA, Lemlem Dugassa - YIN, Zhongqiong - PAULSEN, Berit Smestad. Polysaccharides with immunomodulating activity from roots of *Gentiana crassicaulis*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 172, no., pp. 306-314., Registrované v: WOS

- ADCA265 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. (1.000 - IF1998). (1999 - Current Contents). ISSN 1350-4177.
Citácie:
1. [1.1] ALZORQI, Ibrahim - SUDHEER, Surya - LU, Ting-Jang - MANICKAM, Sivakumar. Ultrasonically extracted beta-D-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 35, no., pp. 531-540., Registrované v: WOS
2. [1.1] TOHTAHON, Zeynep - ZHANG, Lu - HAN, Jianxin - XIE, Xing - TU, Zongcai - YUAN, Tao. Extraction optimization, structural characterization and bioactivity evaluation of triterpenoids from hawthorn (*Crataegus cuneata*) fruits. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2017, vol. 41, no. 4, pp., Registrované v: WOS
3. [1.2] MARTINS, Rodrigo M. - FREITAS, Luis Victor D. - MONTES, Ana Carolina R. - FREITAS, Luis Alexandre P. The extraction of bioactives from plants. In *Recent Developments in Phytomedicine Technology*, 2017-01-01, pp. 93-123., Registrované v: SCOPUS
- ADCA266 HROŇSKÁ, 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. (0.892 - IF2015). ISSN 1024-2422.
Citácie:
1. [1.1] VERA, Carlos - GUERRERO, Cecilia - WILSON, Lorena - ILLANES, Andres. Optimization of reaction conditions and the donor substrate in the synthesis of hexyl-beta-D-galactoside LE. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 58, no., pp. 128-136., Registrované v: WOS
- ADCA267 HUCÍK, M. - BUČKO, Marek - GEMEINER, Peter - ŠTEFUCA, V. - VIKARTOVSKÁ, Alica - Welwardová - MIHOVILOVIČ, M.D. - RUDROFF, F. - IQBAL, N. - CHORVÁT, Dušan Jr. - LACÍK, Igor. Encapsulation of recombinant E. coli expressing cyclopentanone monooxygenase in polyelectrolyte complex capsules for Baeyer-Villiger biooxidation of 8-oxabicyclo (3.2.1)oct-6-en-3-one. In *Biotechnology Letters*, 2010, vol. 32, p. 675-680. (1.636 - IF2009). (2010 - Current Contents). ISSN 0141-5492.
Citácie:
1. [1.1] CORTEZ, S. - NICOLAU, A. - FLICKINGER, M.C. - MOTA, M. Biocoatings: A new challenge for environmental biotechnology. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, MAY 15 2017, vol. 121, p. 25-37., Registrované v: WOS
- ADCA268 HUDEC, J. - BURDOVÁ, M. - KOPIDA, Ľ. - KOMORA, L. - MACHO, V. - KOGAN, Grigorij - TURIANICA, Ivan - KOCHANOVÁ, R. - LOŽEK, Otto - HABÁN, M. - CHLEBO, Peter. Antioxidant capacity changes and phenolic profile of *Echinacea purpurea*, nettle (*Urtica dioica* L.), and dandelion (*Taraxacum officinale*) after application of polyamine and phenolic biosynthesis regulators. In *Journal of agricultural and food chemistry*, 2007, vol. 55, p. 5689-5696. (2007 - Current Contents). ISSN 0021-8561.
Citácie:
1. [1.1] AWAD, Elham - AWAAD, Amani. Role of medicinal plants on growth performance and immune status in fish. In *FISH & SHELLFISH IMMUNOLOGY*. ISSN 1050-4648, 2017, vol. 67, no., pp. 40-54., Registrované v: WOS
2. [1.1] BILAL, Muhammad - RASHEED, Tahir - IQBAL, Hafiz M. N. - HU, Hongbo - WANG, Wei - ZHANG, Xuehong. Macromolecular agents with antimicrobial potentialities: A drive to combat antimicrobial resistance. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 554-574., Registrované v: WOS
3. [1.1] JAHANIAN, Elaheh - JAHANIAN, Rahman - RAHMANI, Hamid-Reza - ALIKHANI, Masoud. Dietary supplementation of *Echinacea purpurea* powder improved performance, serum lipid profile, and yolk oxidative stability in laying hens. In *JOURNAL OF APPLIED ANIMAL RESEARCH*. ISSN 0971-2119, 2017, vol. 45, no. 1, pp. 45-51., Registrované v: WOS
4. [1.1] JEDREJEK, Dariusz - KONTEK, Bogdan - LIS, Bernadetta - STOCHMAL, Anna - OLAS, Beata. Evaluation of antioxidant activity of phenolic fractions from the leaves and petals of dandelion in human plasma treated with H₂O₂ and H₂O₂/Fe. In *CHEMICO-BIOLOGICAL INTERACTIONS*. ISSN 0009-2797, 2017, vol. 262, no., pp. 29-37., Registrované v: WOS
5. [1.1] KHALID, Muhammad - BILAL, Muhammad - HASSANI, Danial - ZAMAN, Shah - HUANG, Danfeng. Characterization of ethno-medicinal plant resources of karamar valley Swabi, Pakistan. In *JOURNAL OF RADIATION RESEARCH AND APPLIED SCIENCES*. ISSN 1687-8507, 2017, vol. 10, no. 2, pp. 152-163., Registrované v: WOS
6. [1.1] OMUR, Ali Dogan - APAYDIN YILDIRIM, Betul - KANDEMIR, Fatih Mehmet - AKMAN, Orhan - AKTAS SENOC AK, Esra - AKSU, Emrah Hicazi. Can *Taraxacum officinale* (Dandelion)

- Extract be an Alternative of Paracetamol in Inflammatory and Painful Cases? An Evaluation with Regard to Biochemical and Reproductive Parameters. In KAFKAS UNIVERSITÉS VETERINER FAKULTÉS DERGISI. ISSN 1300-6045, 2017, vol. 23, no. 1, pp. 47-54., Registrované v: WOS*
7. [1.1] QURESHI, S. - ADIL, S. - ABD EL-HACK, M. E. - ALAGAWANY, M. - FARAG, M. R. Beneficial uses of dandelion herb (*Taraxacum officinale*) in poultry nutrition. In *WORLD'S POULTRY SCIENCE JOURNAL. ISSN 0043-9339, 2017, vol. 73, no. 3, pp. 591-602., Registrované v: WOS*
8. [1.1] XUE, Yansong - ZHANG, Shuming - DU, Min - ZHU, Mei-Jun. Dandelion extract suppresses reactive oxidative species and inflammasome in intestinal epithelial cells. In *JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 29, no., pp. 10-18., Registrované v: WOS*
9. [1.1] ZEKOVIC, Zoran - CVETANOVIC, Aleksandra - SVARC-GAJIC, Jaroslava - GORJANOVIC, Stanislava - SUZNEVIC, Desanka - MASKOVIC, Pavle - SAVIC, Sasa - RADOJKOVIC, Marija - DUROVIC, Sasa. Chemical and biological screening of stinging nettle leaves extracts obtained by modern extraction techniques. In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 108, no., pp. 423-430., Registrované v: WOS*
- ADCA269 HUMENÍK, K. - KUTSCHKY, P. - VALKOVÁ, K. - HORVÁTH, B. - KOVÁČIK, Vladimír - BEKEŠOVÁ, Slávka. Synthesis of β -D-glucopyranosides of 6-substituted 2-(indol-3-yl)benzothiazoles. In *Collection of Czechoslovak Chemical Communications, 1975, vol. 70, p. 72-84. ISSN 0010-0765.*
- Citácie:
1. [1.1] LIMA, David B. - PENTEADO, Filipe - VIEIRA, Marcelo M. - ALVES, Diego - PERIN, Gelson - SANTI, Claudio - LENARDAO, Eder J. *alpha-Keto Acids as Acylating Agents in the Synthesis of 2-Substituted Benzothiazoles and Benzoselenazoles. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2017, vol., no. 26, pp. 3830-3836., Registrované v: WOS*
- ADCA270 HURAN, Jozef - VALOVIČ, Albín - BOHÁČEK, Pavol - SHVETSOV, V.N. - KOBZEV, A.P. - BORZAKOV, S.B. - KLEINOVÁ, Angela - SEKÁČOVÁ, Mária - ARBET, Juraj - SASINKOVÁ, Vlasta. The effect of neutron irradiation on the properties of SiC and SiC(N) layer prepared by plasma enhanced chemical vapor deposition. In *Applied Surface Science, 2013, vol. 269, p. 88-91. (2.112 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0169-4332.*
- Citácie:
1. [1.1] WANG, R.X. - LI, W.Y. - ZHANG, C. - REN, C.Y. - OSTRIKOV, K. - SHAO, T. In *PLASMA PROCESSES AND POLYMERS. JUL 2017, vol. 14, no. 7., Registrované v: WOS*
2. [1.2] Baskar, S., Nalini, R.P. *International Journal of Mechanical Engineering and Technology 8 (2017), pp. 250-256, Registrované v: SCOPUS*
- ADCA271 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. (6.834 - IF2014). (2015 - Current Contents). ISSN 1359-7345.*
- Citácie:
1. [1.1] BLEL, Nesrine - FOURATI, Najla - SOUIRI, Mina - ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. *Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS*
- ADCA272 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 Bioelectronics, 2016, vol. 79, p. 644-649. (7.476 - IF2015). (2016 - Current Contents). ISSN 0956-5663.*
- Citácie:
1. [1.1] CUI, Yue. *Electronic Materials, Devices, and Signals in Electrochemical Sensors. In IEEE TRANSACTIONS ON ELECTRON DEVICES. ISSN 0018-9383, 2017, vol. 64, no. 6, pp. 2467-2477., Registrované v: WOS*
2. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. *Main streams in the Construction of Biosensors and Their Applications. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS*
3. [1.1] YEUNG, Sing Yee - MUCHA, Annabell - DESHMUKH, Ravindra - BOUTRUS, Malak - ARNEBRANT, Thomas - SELLERGREN, Boerje. *Reversible Self-Assembled Monolayers (rSAMs): Adaptable Surfaces for Enhanced Multivalent Interactions and Ultrasensitive Virus Detection. In ACS CENTRAL SCIENCE. ISSN 2374-7943, 2017, vol. 3, no. 11, pp. 1198-1207., Registrované v: WOS*
- ADCA273 HUSHEGYI, András - TKÁČ, Ján. Are glycan biosensors an alternative to glycan microarrays? In

Analytical Methods, 2014, vol. 6, p. 6610-6620. (1.938 - IF2013). (2014 - Current Contents). ISSN 1759-9660.

Citácie:

1. [1.1] PERGOLIZZI, Giulia - DEDOLA, Simone - FIELD, Robert A. *Contemporary glycoconjugation chemistry*. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 1-46., Registrované v: WOS

2. [1.1] TAO, Shun - JIA, Tian-Wei - YANG, Yang - CHU, Li-Qiang. *BSA-Sugar Conjugates as Ideal Building Blocks for SPR-Based Glycan Biosensors*. In ACS SENSORS. ISSN 2379-3694, 2017, vol. 2, no. 1, pp. 57-60., Registrované v: WOS

ADCA274 HÝROŠOVÁ, Eva - FIŠERA, Lubor - REISSIG, Hans-Ulrich - AL-HARRRASI, Ahmed - KOŇŠ, Miroslav. *From sugars to modified nucleosides*. Hans-Ulrich Reissig, Ahmed Al-Harrasi, Miroslav Koňš. In ARKIVOC, 2009, ix, pp.122-142.

Citácie:

1. [1.1] MULLAPUDI, Venkannababu - BHOGADE, Ravindra B. - DESHPANDE, Mukund V. - RAMANA, Chepuri V. *Phenol Oxidative Dearomatization of Modified Nucleoside Templates: A Simple Access to the C7-Spiroannulated Octosyl Acid Framework*. In SYNTHESIS-STUTTGART. ISSN 0039-7881, 2017, vol. 49, no. 18, pp. 4221-4228., Registrované v: WOS

ADCA275 CHOCHOLOVÁ, Erika, Došeková - FILIP, Jaroslav - BERTŮK, Tomáš - BOTH, Peter - KASÁK, Peter - TKÁČ, Ján. *Nanotechnology in glycomics: Applications in diagnostics, therapy, imaging, and separation processes*. In Medicinal Research Reviews, 2017, vol. 37, p. 514-626. (8.763 - IF2016). (2017 - Current Contents). ISSN 0198-6325.

Citácie:

1. [1.1] SUN, Pengfei - YUAN, Pengcheng - WANG, Gaina - DENG, Weixing - TIAN, Sichao - WANG, Chao - LU, Xiaomei - HUANG, Wei - FAN, Quli. *High Density Glycopolymers Functionalized Perylene Diimide Nanoparticles for Tumor-Targeted Photoacoustic Imaging and Enhanced Photothermal Therapy*. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 10, pp. 3375-3386., Registrované v: WOS

2. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. *Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid*. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS

ADCA276 CHOI, Ji Won - SYNYSYA, 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. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] LIU, Wei - HU, Cheng - LIU, Yameng - DAI, Shijie - LU, Weisheng - LV, Xing - YAO, Wenbing - GAO, Xiangdong. *Preparation, characterization, and alpha-glycosidase inhibition activity of a carboxymethylated polysaccharide from the residue of Sarcandra glabra (Thunb.) Nakai*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 454-464., Registrované v: WOS

2. [1.1] PEL, Pisey - CHAE, Hee-Sung - NHOEK, Piseth - KIM, Young-Mi - CHIN, Young-Won. *Chemical Constituents with Proprotein Convertase Subtilisin/Kexin Type 9 mRNA Expression Inhibitory Activity from Dried Immature Morus alba Fruits*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 26, pp. 5316-5321., Registrované v: WOS

3. [1.1] TAO, Yang - WANG, Yilin - YANG, Jun - WANG, Qi - JIANG, Na - DINH-TOI CHU - HAN, Yongbin - ZHOU, Jianzhong. *Chemical composition and sensory profiles of mulberry wines as fermented with different Saccharomyces cerevisiae strains*. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, 2017, vol. 20, no., pp. 2006-2021., Registrované v: WOS

4. [1.1] YUAN, Qingxia - ZHAO, Longyan. *The Mulberry (Morus alba L.) Fruit-A Review of Characteristic Components and Health Benefits*. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 48, pp. 10383-10394., Registrované v: WOS

ADCA277 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.

Citácie:

1. [1.1] IZQUIERDO-VEGA, J.A. - MORALES-GONZALEZ, J.A. - SANCHEZ-GUTIERREZ, M. - BETANZOS-CABRERA, G. - SOSA-DELGADO, S.M. - SUMAYA-MARTINEZ, M.T. - MORALES-GONZALEZ, A. - PANIAGUA-PEREZ, R. - MADRIGAL-BUJAIAR, E. - MADRIGAL-SANTILLAN, E. *Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides*. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, art. no. 102.,

- Registrované v: WOS*
- ADCA278 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.
- Citácie:*
1. [1.1] IZQUIERDO-VEGA, J.A. - MORALES-GONZLEZ, J.A. - SANCHEZ-GUTIERREZ, M. - BETANZOS-CABRERA, G. - SOSA-DELGADO, S.M. - SUMAYA-MARTINEZ, M.T. - MORALES-GONZLEZ, A. - PANIAGUA-PEREZ, R. - MADRIGAL-BUJAIAR, E. - MADRIGAL-SANTILLAN, E. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, FEB 2017, vol. 9, no. 2, article number 102, *Registrované v: WOS*
2. [1.1] KIELISZEK, M. - KOT, A. M. - BZDUCHA-WROBEL, A. - BLAZEJAK, S. - GIENKA, I. - KURCZ, A. Biotechnological use of Candida yeasts in the food industry: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2017, vol. 31, no. 4, p. 185-198., *Registrované v: WOS*
- ADCA279 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef. Ultrasonication: the way to achieve antimutagenic effect of carboxymethyl-chitin-glucan by oral administration. In Mutation research : genetic toxicology and environmental mutagenesis, 1998, vol. 412, no. 1, p. 83-89. ISSN 1383-5718.
- Citácie:*
1. [1.1] IZQUIERDO-VEGA, J.A. - MORALES-GONZLEZ, J.A. - SANCHEZ-GUTIERREZ, M. - BETANZOS-CABRERA, G. - SOSA-DELGADO, S.M. - SUMAYA-MARTINEZ, M.T. - MORALES-GONZLEZ, A. - PANIAGUA-PEREZ, R. - MADRIGAL-BUJAIAR, E. - MADRIGAL-SANTILLAN, E. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, art. no. 102., *Registrované v: WOS*
- ADCA280 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 acetylxylosterases on eucalypt sulfite dissolving pulp. In Journal of Biotechnology, 2000, vol. 83, p. 231-244. ISSN 0168-1656.
- Citácie:*
1. [1.1] Sillanpää, M., & Ncibi, C. (2017). In A Sustainable Bioeconomy: The Green Industrial Revolution (Springer, pp. 1-343), *Registrované v: WOS*
2. [1.1] ZHAO, Lingfeng - YUAN, Zhaoyang - KAPU, Nuwan Sella - CHANG, Xue Feng - BEATSON, Rodger - TRAJANO, Heather L. - MARTINEZ, D. Mark. Increasing efficiency of enzymatic hemicellulose removal from bamboo for production of high-grade dissolving pulp. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, 2017, vol. 223, no., pp. 40-46., *Registrované v: WOS*
- ADCA281 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. (3.840 - IF2014). (2015 - Current Contents). ISSN 2046-2069.
- Citácie:*
1. [1.1] ZOPPE, J.O. - ATAMAN, N.C. - MOCNY, P. - WANG, J. - MORAES, J. - KLOK, H.A. Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes. In CHEMICAL REVIEWS. ISSN 0009-2665, FEB 8 2017, vol. 117, no. 3, p. 1105-1318., *Registrované v: WOS*
2. [1.2] WANG, L. - PING, X. - SUN, K. - CHEN, Q. - PAN, K. Advances in the Modification of Graphene Oxide by Atom Transfer Radical Polymerization. (2017) Gaofenzi Cailiao Kexue Yu Gongcheng/Polymeric Materials Science and Engineering, 33 (2), p. 184-190., *Registrované v: Scopus*
- ADCA282 ILČÍKOVÁ, Markéta - TKÁČ, Ján - KASÁK, Peter. Switchable materials containing polyzwitterion moieties. In Polymers : Open Access Polymer Science Journal, 2015, vol. 7, p. 2344-2370. (3.681 - IF2014). (2015 - Current Contents). ISSN 2073-4360.
- Citácie:*
1. [1.1] MAJI, Tanmoy - BANERJEE, Sanjib - BOSE, Avijit - MANDAL, Tarun K. A stimuli-responsive methionine-based zwitterionic methacryloyl sulfonium sulfonate monomer and the corresponding antifouling polymer with tunable thermosensitivity. In POLYMER CHEMISTRY. ISSN 1759-9954, 2017, vol. 8, no. 20, pp. 3164-3176., *Registrované v: WOS*
2. [1.1] WEI, Ting - TANG, Zengchao - YU, Qian - CHEN, Hong. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2017, vol. 9, no. 43, pp. 37511-37523.,

Registrované v: WOS

3. [1.1] YU, Yunlong - VANCOS, G. Julius - DE BEER, Sissi. Substantially enhanced stability against degrafting of zwitterionic PMPC brushes by utilizing PGMA-linked initiators. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 89, no., pp. 221-229.,

Registrované v: WOS

- ADCA283 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. (1.500 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1452-3981.

Citácie:

1. [1.1] LI, Chuan - HSIEH, J. H. - LEE, Y. T. Effects of radio frequency power on the microstructures and properties of plasma polymerized polypyrrole thin films. In *VACUUM*. ISSN 0042-207X, 2017, vol. 140, no., pp. 132-138., Registrované v: WOS

2. [1.1] LI, Chuan - HSIEH, J. H. - LEE, Y. T. Fabrication and structural characterization of plasma polymerized polypyrrole thin film. In *SURFACE & COATINGS TECHNOLOGY*. ISSN 0257-8972, 2017, vol. 320, no., pp. 206-212., Registrované v: WOS

- ADCA284 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.

Citácie:

1. [1.1] CRESPO, Helena - GUILLEN, Hugo - DE PABLO-MAISO, Lorena - GOMEZ-ARREBOLA, Carmen - RODRIGUEZ, Gregorio - GLARIA, Idoia - DE ANDRES, Damian - REINA, Ramses. *Lentinula edodes* beta-glucan enriched diet induces pro- and anti-inflammatory macrophages in rabbit. In *FOOD & NUTRITION RESEARCH*. ISSN 1654-6628, 2017, vol. 61, no., pp., Registrované v: WOS

2. [1.1] VIEIRA SPIM, Sara Rosicler - CORREA CHRISPIM DE OLIVEIRA, Bruna Giovanna - LEITE, Fernanda Gomes - GERENUTTI, Marli - GROTO, Denise. Effects of *Lentinula edodes* consumption on biochemical, hematologic and oxidative stress parameters in rats receiving high-fat diet. In *EUROPEAN JOURNAL OF NUTRITION*. ISSN 1436-6207, 2017, vol. 56, no. 7, pp. 2255-2264., Registrované v: WOS

3. [1.1] WANG, Jinglin - LI, Weiyong - HUANG, Xiao - LIU, Ying - LI, Qiang - ZHENG, Ziming - WANG, Kaiping. A polysaccharide from *Lentinus edodes* inhibits human colon cancer cell proliferation and suppresses tumor growth in athymic nude mice. In *ONCOTARGET*. ISSN 1949-2553, 2017, vol. 8, no. 1, pp. 610-623., Registrované v: WOS

4. [1.1] ZHANG, Yong - LIU, Wei - XU, Chunping - HUANG, Wei - HE, Peixin. Characterization and Antiproliferative Effect of Novel Acid Polysaccharides from the Spent Substrate of Shiitake Culinary-Medicinal Mushroom *Lentinus edodes* (Agaricomycetes) Cultivation. In *INTERNATIONAL JOURNAL OF MEDICINAL MUSHROOMS*. ISSN 1521-9437, 2017, vol. 19, no. 5, pp. 395-403., Registrované v: WOS

5. [1.2] SNEHA, C. - TOMY, Minnu. Yield evaluation of oyster mushroom on dust waste of some common timber species. In *Wood is Good: Current Trends and Future Prospects in Wood Utilization*, 2017-01-20, pp. 391-395., Registrované v: SCOPUS

6. [1.2] SÁNCHEZ, Carmen. Bioactives from mushroom and their application. In *Food Bioactives: Extraction and Biotechnology Applications*, 2017-04-07, pp. 23-57., Registrované v: SCOPUS

- ADCA285 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. (4.147 - IF2014). (2015 - Current Contents). ISSN 0263-4929.

Citácie:

1. [1.1] FANG, Chao - ZHANG, Yuewen - SHEN, Weixia - SUN, Shishuai - ZHANG, Zhuangfei - XUE, Lisha - JIA, Xiaopeng. Synthesis and characterization of HPHT large single-crystal diamonds under the simultaneous influence of oxygen and hydrogen. In *CRYSTENGCOMM*. ISSN 1466-8033, 2017, vol. 19, no. 38, pp. 5727-5734., Registrované v: WOS

2. [1.1] HE, Detao - LIU, Yongsheng - GAO, Changgui - CHEN, Chunfei - HU, Zhaochu - GAO, Shan. SiC-dominated ultra-reduced mineral assemblage in carbonatitic xenoliths from the Dalihu basalt, Inner Mongolia, China. In *AMERICAN MINERALOGIST*. ISSN 0003-004X, 2017, vol. 102, no. 1-2, pp. 312-320., Registrované v: WOS

3. [1.1] SCHORN, S. - DIENER, J. F. A. Details of the gabbro-to-eclogite transition determined from microtextures and calculated chemical potential relationships. In *JOURNAL OF METAMORPHIC GEOLOGY*. ISSN 0263-4929, 2017, vol. 35, no. 1, pp. 55-75., Registrované v:

- WOS
4. [1.1] ZHANG, Ru Y. - LIOU, Juhn G. - LO, Ching-Hua. Raman spectra of polycrystalline microdiamond inclusions in zircons, and ultrahigh-pressure metamorphism of a quartzofeldspathic rock from the Erzgebirge terrane, Germany. In *INTERNATIONAL GEOLOGY REVIEW*. ISSN 0020-6814, 2017, vol. 59, no. 5-6, pp. 779-792., Registrované v: WOS
- ADCA286 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. (0.778 - IF2001). ISSN 0010-0765.
- Citácie:
1. [1.1] BALATI, Ali - GHANBARI, Mohammad - BEHZAD, Sara Karimi - AMINI, Mostafa M. Functionalization of Graphene Oxide with 9-aminoanthracene for the Adsorptive Removal of Persistent Aromatic Pollutants from Aqueous Solution. In *ACTA CHIMICA SLOVENICA*. ISSN 1318-0207, 2017, vol. 64, no. 2, pp. 479-490., Registrované v: WOS
- ADCA287 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. (1.824 - IF2016). (2017 - Current Contents). ISSN 0882-0139.
- Citácie:
1. [1.1] RITTENHOUSE-OLSON, Kate. Letter from the Editor 2017. In *IMMUNOLOGICAL INVESTIGATIONS*. ISSN 0882-0139, 2017, vol. 46, no. 8, pp. 759-764., Registrované v: WOS
- ADCA288 JIN, Lan - HRICOVÍN, Miloš - DEAKIN, Jon A. - LYON, Malcolm - UHRIN, D. Residual dipolar coupling investigation of a heparin tetrasaccharides confirms the limited effect of flexibility of the iduronic acid on the molecular shape of heparin. Jon A. Deakin, Malcolm Lyon, D. Uhrin. In *Glycobiology*, 2009, vol. 19, no.11, pp.1185-1196. ISSN 0959-6658.
- Citácie:
1. [1.1] HUGHES, Ashley - MENEGHETTI, Maria - HUANG, Teng-Yi - HUNG, Shang-Cheng - ELLI, Stefano - GUERRINI, Marco - RUDD, Timothy - LIMA, Marcelo - YATES, Edwin. Investigating the relationship between temperature, conformation and calcium binding in heparin model oligosaccharides. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 438, no., pp. 58-64., Registrované v: WOS
2. [1.1] PRESTEGARD, James H. - ELETISKY, Alexander. Paramagnetic, RDC and RCSA Constraints in the Structural Analysis of Glycans. In *NMR IN GLYCOSCIENCE AND GLYCOTECHNOLOGY*. ISSN 2044-253X, 2017, vol. 10, no., pp. 123-149., Registrované v: WOS
- ADCA289 JOHANSSON, K. - EL-AHMAD, M. - FRIEMANN, R. - JORNVALL, H. - MARKOVIČ, Oskar - EKLUND, Robert C. Crystal structure of plant pectin methylesterase. In *FEBS Letters*, 2002, vol. 514, p. 243-249. ISSN 1873-3468.
- Citácie:
1. [1.1] ASLER, Ivana Lescic - STEFANIC, Petra Peharec - BALEN, Biljana - ALLMAIER, Guenter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIC, Biserka. Horseradish esterases: detection, purification and identification. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 130, no. 1, pp. 13-24., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. P83218. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P83218>, Registrované v: WOS
3. [1.1] HOCQ, Ludvine - PELLOUX, Jerome - LEFEBVRE, Valerie. Connecting Homogalacturonan-Type Pectin Remodeling to Acid Growth. In *TRENDS IN PLANT SCIENCE*. ISSN 1360-1385, 2017, vol. 22, no. 1, pp. 20-29., Registrované v: WOS
4. [1.1] KATSAROS, G. J. - ALEXANDRAKIS, Z. S. - TAOUKIS, P. S. Kinetic Assessment of High Pressure Inactivation of Different Plant Origin Pectinmethylesterase Enzymes. In *FOOD ENGINEERING REVIEWS*. ISSN 1866-7910, 2017, vol. 9, no. 3, pp. 170-189., Registrované v: WOS
5. [1.1] MCBRIDE, Zachary - CHEN, Donglai - REICK, Christy - XIE, Jun - SZYMANSKI, Daniel B. Global Analysis of Membrane-associated Protein Oligomerization Using Protein Correlation Profiling. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2017, vol. 16, no. 11, pp. 1972-1989., Registrované v: WOS
6. [1.1] SENECHAL, Fabien - HABRYLO, Olivier - HOCQ, Ludvine - DOMON, Jean-Marc - MARCELO, Paulo - LEFEBVRE, Valerie - PELLOUX, Jerome - MERCADANTE, Davide. Structural and dynamical characterization of the pH-dependence of the pectin methylesterase-pectin methylesterase inhibitor complex. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 52, pp. 21538-21547., Registrované v: WOS
7. [1.2] LEŠČIĆ ASLER, Ivana - PEHAREC ŠTEFANIĆ, Petra - BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIC, Biserka. Horseradish

- ADCA290 *esterases: detection, purification and identification. In Plant Cell, Tissue and Organ Culture. ISSN 01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS*
- 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. (7.476 - IF2015). (2016 - Current Contents). ISSN 0956-5663.
- Citácie:
- [1.1] DING, Fei - GAO, Yangguang - HE, Xianran. Recent progresses in biomedical applications of aptamer-functionalized systems. In BIOORGANIC & MEDICINAL CHEMISTRY LETTERS. ISSN 0960-894X, 2017, vol. 27, no. 18, pp. 4256-4269., Registrované v: WOS
 - [1.1] HU, Jingping - YE, Mao - ZHOU, Zhiguang. Aptamers: novel diagnostic and therapeutic tools for diabetes mellitus and metabolic diseases. In JOURNAL OF MOLECULAR MEDICINE-JMM. ISSN 0946-2716, 2017, vol. 95, no. 3, pp. 249-256., Registrované v: WOS
 - [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
 - [1.1] SONKER, Mukul - SAHORE, Vishal - WOOLLEY, Adam T. Recent advances in microfluidic sample preparation and separation techniques for molecular biomarker analysis: A critical review. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2017, vol. 986, no., pp. 1-11., Registrované v: WOS
 - [1.1] SYPABEKOVA, Marzhan - BEKMURZAYEVA, Aliya - WANG, Ronghui - LI, Yanbin - NOGUES, Claude - KANAYEVA, Damira. Selection, characterization, and application of DNA aptamers for detection of Mycobacterium tuberculosis secreted protein MPT64. In TUBERCULOSIS. ISSN 1472-9792, 2017, vol. 104, no., pp. 70-78., Registrované v: WOS
 - [1.1] ZHAO, Dan - YI, Xiaoqing - YUAN, Gongdao - ZHUO, Renxi - LI, Feng. Design and Construction of a Smart Targeting Drug Delivery System Based on Phototriggered Competition of Host-Guest Interaction. In MACROMOLECULAR BIOSCIENCE. ISSN 1616-5187, 2017, vol. 17, no. 9, pp., Registrované v: WOS
- ADCA291 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. (4.097 - IF2014). (2015 - Current Contents). ISSN 0925-4005.
- Citácie:
- [1.1] BLEL, Nesrine - FOURATI, Najla - SOUIRI, Mina - ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS
 - [1.1] DO, Tram T. N. - TOAN VAN PHI - TIN PHAN NGUY - WAGNER, Patrick - EERSELS, Kasper - VESTERGAARD, Mun';delanji C. - TRUONG, Lien T. N. Anisotropic In Situ-Coated AuNPs on Screen-Printed Carbon Surface for Enhanced Prostate-Specific Antigen Impedimetric Aptasensor. In JOURNAL OF ELECTRONIC MATERIALS. ISSN 0361-5235, 2017, vol. 46, no. 6, pp. 3542-3552., Registrované v: WOS
 - [1.1] ERTURK, Gizem - MATTIASSON, Bo. Molecular Imprinting Techniques Used for the Preparation of Biosensors. In SENSORS. ISSN 1424-8220, 2017, vol. 17, no. 2, pp., Registrované v: WOS
 - [1.1] HASANZADEH, Mohammad - SHADJOU, Nasrin. What are the reasons for low use of graphene quantum dots in immunosensing of cancer biomarkers? In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. ISSN 0928-4931, 2017, vol. 71, no., pp. 1313-1326., Registrované v: WOS
 - [1.1] HEYDARI-BAFROOEI, Esmaeil - SHAMSZADEH, Nazgol Sadat. Electrochemical bioassay development for ultrasensitive aptasensing of prostate specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 91, no., pp. 284-292., Registrované v: WOS
 - [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
 - [1.1] ISLAMOV, Meirbek - SYPABEKOVA, Marzhan - KANAYEVA, Damira - ROJAS-SOLORZANO, Luis. CFD Modeling of Chamber Filling in a Micro-Biosensor for Protein Detection. In BIOSENSORS-BASEL. ISSN 2079-6374, 2017, vol. 7, no. 4, pp., Registrované v: WOS
 - [1.1] JIN, Shunru - YE, Zunzhong - WANG, Yixian - YING, Yibin. A Novel Impedimetric Microfluidic Analysis System for Transgenic Protein Cry1Ab Detection. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

9. [1.1] SATTARAHMADY, Naghmeh - RAHI, Amid - HELI, Hossein. A signal-on built in-marker electrochemical aptasensor for human prostate-specific antigen based on a hairbrush-like gold nanostructure. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
 10. [1.1] SUN, Kai - XIA, Ning - ZHAO, Lijuan - LIU, Ke - HOU, Wenjing - LIU, Lin. Aptasensors for the selective detection of alpha-synuclein oligomer by colorimetry, surface plasmon resonance and electrochemical impedance spectroscopy. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 245, no., pp. 87-94., Registrované v: WOS
 11. [1.1] SYPABEKOVA, Marzhan - BEKMURZAYEVA, Aliya - WANG, Ronghui - LI, Yanbin - NOGUES, Claude - KANAYEVA, Damira. Selection, characterization, and application of DNA aptamers for detection of Mycobacterium tuberculosis secreted protein MPT64. In *TUBERCULOSIS*. ISSN 1472-9792, 2017, vol. 104, no., pp. 70-78., Registrované v: WOS
 12. [1.1] WANG, Junchun - GUO, Jinjin - ZHANG, Junjun - ZHANG, Wenjuan - ZHANG, Yuzhong. RNA aptamer-based electrochemical aptasensor for C-reactive protein detection using functionalized silica microspheres as immunoprobes. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 95, no., pp. 100-105., Registrované v: WOS
 13. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
 14. [1.2] SINGH, Suman - DEEP, Akash - MOHANTA, Girish - MEENA, Vijay Kumar. Developments in the electrochemical bionanosensors for the predictive diagnosis of prostate and breast cancer. In *Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis*, 2017-12-30, pp. 253-278., Registrované v: SCOPUS
 15. [1.2] SIONTOROU, Christina G. - NIKOLELI, Georgia Paraskevi D. - NIKOLELIS, Dimitrios P. - KARAPETIS, Stephanos - TZAMTZIS, Nikolaos - BRATAKOU, Spyridoula. Point-of-care and implantable biosensors in cancer research and diagnosis. In *Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis*, 2017-12-30, pp. 115-132., Registrované v: SCOPUS
- ADCA292 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. (5.401 - IF2016). (2017 - Current Contents). ISSN 0925-4005.
- Citácie:
1. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
- ADCA293 JÚDOVÁ, J. - ŠUTKA, R. - KLAUDINY, Jaroslav - LIŠKOVÁ, Desana - OW, D.W. - ŠIMÚTH, Jozef. Transformation of tobacco plants with cDNA encoding honeybee royal jelly MRJP1. In *Biologia Plantarum : international journal*, 2004, vol. 48, p. 185-191. (0.919 - IF2003). ISSN 0006-3134.
- Citácie:
1. [1.1] YOU, Zhengying - QIAN, Qiujie - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In *TRANSGENIC RESEARCH*. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS
 2. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical composition of royal jelly. In *Bee Products Chemical and Biological Properties*, 2017-09-05, pp. 181-190., Registrované v: SCOPUS
 3. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of AmMRJP5 Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS
- ADCA294 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. (3.360 - IF2013). (2014 - Current Contents). ISSN 1439-7641.
- Citácie:
1. [1.1] HAYES, Joseph M. Computer-Aided Discovery of Glycogen Phosphorylase Inhibitors Exploiting Natural Products. In *DISCOVERY AND DEVELOPMENT OF ANTIDIABETIC AGENTS FROM NATURAL PRODUCTS: NATURAL PRODUCT DRUG DISCOVERY*, 2017, vol., no., pp. 29-62., Registrované v: WOS

ADCA295

2. [1.1] STRAVODIMOS, George A. - CHETTER, Ben A. - KYRIAKIS, Efthimios - KANTSADI, Anastassia L. - CHATZILEONTIADOU, Demetra S. M. - SKAMNAKI, Vassiliki T. - KATO, Atsushi - HAYES, Joseph M. - LEONIDAS, Demetres D. *Phytogenic Polyphenols as Glycogen Phosphorylase Inhibitors: The Potential of Triterpenes and Flavonoids for Glycaemic Control in Type 2 Diabetes*. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 4, pp. 384-403., Registrované v: WOS

KACURÁKOVÁ, 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] ALTANGEREL, Narangerel - WALKER, John W. - GONZALEZ, Piedad Mayagoitia - BAILEY, Derek W. - ESTELL, Rick E. - SCULLY, Marlan O. *Comparison of Near Infrared Reflectance Spectroscopy and Raman Spectroscopy for Predicting Botanical Composition of Cattle Diets*. In *RANGELAND ECOLOGY & MANAGEMENT*. ISSN 1550-7424, 2017, vol. 70, no. 6, pp. 781-786., Registrované v: WOS

2. [1.1] AZUMA, Wakana - NAKASHIMA, Satoru - YAMAKITA, Eri - ISHII, H. Roaki - KURODA, Keiko. *Water retained in tall Cryptomeria japonica leaves as studied by infrared micro-spectroscopy*. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2017, vol. 37, no. 10, pp. 1367-1378., Registrované v: WOS

3. [1.1] BAUM, Andreas - DOMINIAK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. *Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis*. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS

4. [1.1] BENITEZ-GUERRERO, Monica - PEREZ-MAQUEDA, Luis A. - ARTIAGA, Ramon - SANCHEZ-JIMENEZ, Pedro E. - PASCUAL-COSP, Jose. *Structural and Chemical Characteristics of Sisal Fiber and Its Components: Effect of Washing and Grinding*. In *JOURNAL OF NATURAL FIBERS*. ISSN 1544-0478, 2017, vol. 14, no. 1, pp. 26-39., Registrované v: WOS

5. [1.1] BORGHESE, Roberto - BRUCALÉ, Marco - FORTUNATO, Gianuario - LANZI, Massimiliano - MEZZI, Alessio - VALLE, Francesco - CAVALLINI, Massimiliano - ZANNONI, Davide. *Extracellular production of tellurium nanoparticles by the photosynthetic bacterium Rhodobacter capsulatus*. In *JOURNAL OF HAZARDOUS MATERIALS*. ISSN 0304-3894, 2016, vol. 309, no., pp. 202-209., Registrované v: WOS

6. [1.1] CHEN, Changjie - CHEN, Guicui - LI, Xin - GUO, Hongyun - WANG, Guohe. *The influence of chemical treatment on the mechanical properties of windmill palm fiber*. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 4, pp. 1611-1620., Registrované v: WOS

7. [1.1] CHENG, H. N. - BISWAS, Atanu. *Novel polyurethanes from Xylan and TDI: Preparation and characterization*. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*. ISSN 0065-7727, 2017, vol. 253, no., pp., Registrované v: WOS

8. [1.1] GHOSHAL, G. - SHIVHARE, U. S. - BANERJEE, U. C. *Rheological properties and microstructure of xylanase containing whole wheat bread dough*. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE*. ISSN 0022-1155, 2017, vol. 54, no. 7, pp. 1928-1937., Registrované v: WOS

9. [1.1] SAPINA, Maria - JIMENEZ-RELINQUE, Eva - NEVSHUPA, Roman - ROMAN, Elisa - CASTELLOTE, Marta. *Degradation of pollen on nanofunctionalized photocatalytic materials*. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2017, vol. 92, no. 1, pp. 210-216., Registrované v: WOS

10. [1.1] SINGH, R. D. - BHUYAN, K. - BANERJEE, J. - MUIR, J. - ARORA, A. *Hydrothermal and microwave assisted alkali pretreatment for fractionation of arecanut husk*. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 102, no., pp. 65-74., Registrované v: WOS

11. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. *Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Plantago ovata Using Gamma Irradiation Spectroscopy*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

12. [1.1] WANG, Zhijun - XIE, Jianhua - YANG, Yujiao - ZHANG, Fan - WANG, Shengnan - WU, Ting - SHEN, Mingyue - XIE, Mingyong. *Sulfated Cyclocarya paliurus polysaccharides markedly attenuates inflammation and oxidative damage in lipopolysaccharide-treated macrophage cells and mice*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

13. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In *Bioactive Polysaccharides* (Elsevier, pp. 1-554), Registrované v: SCOPUS

- ADCA296 14. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
- KAČURÁKOVÁ, Marta - EBRINGEROVÁ, Anna - HIRSCH, Ján - HROMADKOVÁ, Zdena. Infrared study of arabinoxylans. In *Journal of the Science of Food and Agriculture*, 1994, vol. 66, no. 3, p. 423-427.
- Citácie:
- [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS
 - [1.1] BENDAOUD, Amine - MAIGRET, Jean-Eudes - LEROY, Eric - CATHALA, Bernard - LOURDIN, Denis. Cellulose-Xyloglucan Composite Film Processing Using Ionic Liquids as Co-Solvents. In *PROCEEDINGS OF PPS-32: THE 32ND INTERNATIONAL CONFERENCE OF THE POLYMER PROCESSING SOCIETY*. ISSN 0094-243X, 2017, vol. 1914, no., pp., Registrované v: WOS
 - [1.1] LIU, Zhijun - LI, Dianxin - DAI, Hongjie - HUANG, Huihua. Enhanced properties of tea residue cellulose hydrogels by addition of graphene oxide. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2017, vol. 244, no., pp. 110-116., Registrované v: WOS
 - [1.1] LIU, Zhijun - LI, Dianxin - DAI, Hongjie - HUANG, Huihua. Preparation and characterization of papain embedded in magnetic cellulose hydrogels prepared from tea residue. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2017, vol. 232, no., pp. 449-456., Registrované v: WOS
 - [1.1] SAHOO, Jitendra Kumar - KUMAR, Aniket - RATH, Juhi - MOHANTY, Tanuja - DASH, Priyabrat - SAHOO, Harekrushna. Guar gum-coated iron oxide nanocomposite as an efficient adsorbent for Congo red dye. In *DESALINATION AND WATER TREATMENT*. ISSN 1944-3994, 2017, vol. 95, no., pp. 342-354., Registrované v: WOS
 - [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in *Plantago ovata* Using Gamma Irradiation Spectroscopy. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
 - [1.1] XU, Gui-Bin - KONG, Wei-Qing - LIU, Chuan-Fu - SUN, Run-Cang - REN, Jun-Li. Synthesis and Characteristic of Xylan-grafted-polyacrylamide and Application for Improving Pulp Properties. In *MATERIALS*. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
 - [1.1] ZENG, Ganmin - HAN, Jing - DAI, Beibei - LIU, Xiaohui - LI, Jinkun - CHEN, Chuntao - YANG, Jiazhi - SUN, Dongping. Preparation and Characterization of Alkaline Anion Exchange Membrane for Fuel Cells Application. In *JOURNAL OF NANOTECHNOLOGY*. ISSN 1687-9503, 2017, vol., no., pp., Registrované v: WOS
 - [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
 - [1.2] ZHOU, Hui Fang - YANG, Gui Hua - CHEN, Jia Chuan - KONG, Fan Gong - WANG, Qiang. Improvement of APMP Pulp Properties by Using Cinnamoylated Xylans as Additive. In *Chung-kuo Tsao Chih/China Pulp and Paper*. ISSN 0254508X, 2017-02-01, 36, 2, pp. 1-5., Registrované v: SCOPUS
- ADCA297 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.
- Citácie:
- [1.1] ARFAT, Yasir Ali - EJAZ, Mohammed - JACOB, Harsha - AHMED, Jasim. Deciphering the potential of guar gum/Ag-Cu nanocomposite films as an active food packaging material. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 65-71., Registrované v: WOS
 - [1.1] BONNIER-FIGUEROA, D. C. - QUEVEDO-LOPEZ, M. A. - ROSAS-DURAZO, A. - SOTELO-LERMA, M. HYDROTHERMAL TECHNIQUE FOR ISOLATION OF GALACTOMANNAN FROM SEEDS OF SONORAN MEZQUITE (*Prosopis* spp.). In *REVISTA MEXICANA DE INGENIERIA QUIMICA*. ISSN 1665-2738, 2017, vol. 16, no. 2, pp. 457-465., Registrované v: WOS
 - [1.1] CHENG, He-Li - LIU, Hao - FENG, Qing-Hua - XIE, Yi-Min - ZHAN, Huai-Yu. Preparation, characterization and in vitro anticoagulant activity of corn stover xylan sulfates. In

JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2017, vol. 28, no. 3, pp. 271-283., Registrované v: WOS

4. [1.1] CHENG, Heli - FENG, Qinghua - WANG, Duan - WANG, Peng - LIU, Hao - ZHAN, Huaiyu - LIU, Yu - XIE, Yimin. SEPARATION, PURIFICATION AND CHARACTERIZATION OF CORN STOVER HEMICELLULOSES. In *CELLULOSE CHEMISTRY AND TECHNOLOGY*. ISSN 0576-9787, 2017, vol. 51, no. 3-4, pp. 215-222., Registrované v: WOS

5. [1.1] DE CARVALHO, Danila Moraes - MARTINEZ-ABAD, Antonio - EVTUGUIN, Dmitry V. - COLODETTE, Jorge Luiz - LINDSTROM, Mikael E. - VILAPLANA, Francisco - SEVASTYANOVA, Olena. Isolation and characterization of acetylated glucuronoarabinoxylan from sugarcane bagasse and straw. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 223-234., Registrované v: WOS

6. [1.1] HUANG, Xiuji - HU, Ning - WANG, Xiaoying - ZHANG, Yu Shrike - SUN, Runcang. Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 3, pp. 2648-2655., Registrované v: WOS

7. [1.1] LI, Weibing - ZHOU, Xuesong. Modification of the water-insoluble hemicelluloses via free radical copolymerization in diluted alkali aqueous medium. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2017, vol. 37, no. 3, pp. 191-200., Registrované v: WOS

8. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS

9. [1.1] LUO, Yiping - FAN, Jiajun - BUDARIN, Vitaliy L. - HU, Changwei - CLARK, James H. Microwave-assisted hydrothermal selective dissolution and utilisation of hemicellulose in *Phyllostachys heterocycla* cv. *pubescens*. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 20, pp. 4889-4899., Registrované v: WOS

10. [1.1] MAANI, Bahareh - ALIM, Mazdak - SHOKOOHI, Shirin - FAZELI, Fatemeh. Substitution of modified starch with hydrogen peroxide-modified rice bran in salad dressing formulation: physicochemical, texture, rheological and sensory properties. In *JOURNAL OF TEXTURE STUDIES*. ISSN 0022-4901, 2017, vol. 48, no. 3, pp. 205-214., Registrované v: WOS

11. [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In *FOOD BIOTECHNOLOGY*. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS

12. [1.1] PALANIAPPAN, Ayyappan - YUVARAJ, Shanmuga Sundharam - SONAIMUTHU, Saravanan - ANTONY, Usha. Characterization of xylan from rice bran and finger millet seed coat for functional food applications. In *JOURNAL OF CEREAL SCIENCE*. ISSN 0733-5210, 2017, vol. 75, no., pp. 296-305., Registrované v: WOS

13. [1.1] YANG, Sheng - HE, Wei-Tao - FU, Yi - ZHANG, Yue - YUAN, Tong-Qi - SUN, Run-Cang. A bio-based coating onto the surface *Populus* fiber for oil spillage cleanup applications. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 98, no., pp. 38-45., Registrované v: WOS

14. [1.2] ROVKINA, K. I. - KRIVOSHCHEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seedling *medicago sativa* (fabaceae) flora of the Krasnoyarsk territory. In *Khimiya Rastitel'nykh Syr'yev*. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS

15. [1.2] SAFOU-TCHIAMA, R. - ANDZI BARHÉ, T. - SOULOUNGANGA, P. - AKAGAH, A. G. - DE JESO, B. A comparative study of the syringyl, guaiacyl and hydroxyl groups units distribution in some African tropical hardwoods; lignin by Py-GC/MS and spectroscopic techniques. In *Journal of Materials and Environmental Science*. ISSN 20282508, 2017-01-01, 8, 7, pp. 2530-2540., Registrované v: SCOPUS

ADCA298

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. (0.987 - IF1999). (2000 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] ABDULLAH, Amira Raudhah - HAPIDIN, Hermizi - ABDULLAH, Hasmah. Phytochemical analysis of *Quercus infectoria* galls extracts using FTIR, LC-MS and MS/MS analysis. In *RESEARCH JOURNAL OF BIOTECHNOLOGY*. ISSN 2278-4535, 2017, vol. 12, no. 12, pp. 55-61., Registrované v: WOS

2. [1.1] AGUSTIN-SALAZAR, Sarai - GAMEZ-MEZA, Nohemi - ANGEL MEDINA-JUAREZ, Luis - MALINCONICO, Mario - CERRUTI, Pierfrancesco. Stabilization of Polylactic Acid and Polyethylene with Nutshell Extract: Efficiency Assessment and Economic Evaluation. In *ACS*

- SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 4607-4618., Registrované v: WOS
3. [1.1] ALI, Gomaa A. M. - DIVYASHREE, A. - SUPRIYA, S. - CHONG, Kwok Feng - ETHIRAJ, Anita S. - REDDY, M. V. - ALGARNI, H. - HEGDE, Gurumurthy. Carbon nanospheres derived from *Lablab purpureus* for high performance supercapacitor electrodes: a green approach. In *DALTON TRANSACTIONS*. ISSN 1477-9226, 2017, vol. 46, no. 40, pp. 14034-14044., Registrované v: WOS
4. [1.1] ALMOHAMMED, Fouad - KOUBAA, Mohamed - KHELFA, Anissa - NAKAYA, Matheus - MHEMDI, Houcine - VOROBIEV, Eugene. Pectin recovery from sugar beet pulp enhanced by high-voltage electrical discharges. In *FOOD AND BIOPRODUCTS PROCESSING*. ISSN 0960-3085, 2017, vol. 103, no., pp. 95-103., Registrované v: WOS
5. [1.1] AN, Liangliang - WANG, Guanhua - JIA, Hongyu - LIU, Cuiyun - SUI, Wenjie - SI, Chuanling. Fractionation of enzymatic hydrolysis lignin by sequential extraction for enhancing antioxidant performance. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 99, no., pp. 674-681., Registrované v: WOS
6. [1.1] ASHI, Davoud Salarb - NOGHABI, Mostafa Shahidi - BAZZAZ, Bibi Sedigheh Fazly - SHAHABI-GHAHFARROKHI, Iman - JAFARI, Behrouz - AHMADI, Reza. Eco-friendly soluble soybean polysaccharide/nanoclay Na⁺ bionanocomposite: Properties and characterization. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 169, no., pp. 524-532., Registrované v: WOS
7. [1.1] ASTORECA, A. - ORTEGA, L. - FIGOLI, C. - CARDOS, M. - CAVAGLIERI, L. - BOSCH, A. - ALCONADA, T. Analytical techniques for deoxynivalenol detection and quantification in wheat destined for the manufacture of commercial products. In *WORLD MYCOTOXIN JOURNAL*. ISSN 1875-0710, 2017, vol. 10, no. 2, pp. 111-120., Registrované v: WOS
8. [1.1] BARSBERG, S. T. - LEE, Y.I. - RASMUSSEN, H. N. Development of C-lignin with G/S-lignin and lipids in orchid seed coats an unexpected diversity exposed by ATR-FT-IR spectroscopy. In *SEED SCIENCE RESEARCH*. ISSN 0960-2585, 2017, vol. 28, no. 1, pp. 41-51., Registrované v: WOS
9. [1.1] BAUM, Andreas - DOMINIAK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS
10. [1.1] BEGUM, Rokeya - YUSOF, Yus Aniza - AZIZ, Mohammad Gulzarul - UDDIN, M. Burhan. Structural and functional properties of pectin extracted from jackfruit (*Artocarpus heterophyllus*) waste: Effects of drying. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no., pp. S190-S201., Registrované v: WOS
11. [1.1] BEHBAHANI, Behrooz Alizadeh - YAZDI, Farideh Tabatabaei - SHAHIDI, Fakhri - HESARINEJAD, Mohammad Ali - MORTAZAVI, Seyed Ali - MOHEBBI, Mohebbat. Plantago major seed mucilage: Optimization of extraction and some physicochemical and rheological aspects. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 155, no., pp. 68-77., Registrované v: WOS
12. [1.1] BEN SALEM, Yosra - AMRI, Safa - HAMMI, Khaoula Mkadmini - ABDELHAMID, Amal - LE CERF, Didier - BOURAOUI, Abderrahman - MAJDOUB, Hatem. Physico-chemical characterization and pharmacological activities of sulfated polysaccharide from sea urchin, *Paracentrotus lividus*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 97, no., pp. 8-15., Registrované v: WOS
13. [1.1] BENDAOU, Amine - KEHRBUSCH, Rene - BARANOV, Anton - DUCHEMIN, Benoit - MAIGRET, Jean Eudes - FALOURD, Xavier - STAIGER, Mark P. - CATHALA, Bernard - LOURDIN, Denis - LEROY, Eric. Nanostructured cellulose-xyloglucan blends via ionic liquid/water processing. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 168, no., pp. 163-172., Registrované v: WOS
14. [1.1] BENDAOU, Amine - MAIGRET, Jean-Eudes - LEROY, Eric - CATHALA, Bernard - LOURDIN, Denis. Cellulose-Xyloglucan Composite Film Processing Using Ionic Liquids as Co-Solvents. In *PROCEEDINGS OF PPS-32: THE 32ND INTERNATIONAL CONFERENCE OF THE POLYMER PROCESSING SOCIETY*. ISSN 0094-243X, 2017, vol. 1914, no., pp., Registrované v: WOS
15. [1.1] BEREZIN, K. V. - LIKHTER, A. M. - SHAGAUTDINOVA, I. T. - CHERNAVINA, M. L. - NOVOSELOVA, A. V. FT-IR and DFT study of lemon peel. In *SARATOV FALL MEETING 2016 OPTICAL TECHNOLOGIES IN BIOPHYSICS AND MEDICINE XVIII*. ISSN 0277-786X, 2017, vol. 10336, no., pp., Registrované v: WOS
16. [1.1] BEREZIN, K. V. - SHAGAUTDINOVA, I. T. - CHERNAVINA, M. L. - NOVOSELOVA, A. V. - DVORETSKII, K. N. - LIKHTER, A. M. The experimental vibrational infrared spectrum of

- lemon peel and simulation of spectral properties of the plant cell wall. In *OPTICS AND SPECTROSCOPY*. ISSN 0030-400X, 2017, vol. 123, no. 3, pp. 495-500., Registrované v: WOS
17. [1.1] BRAHEM, Marwa - RENARD, Catherine M. G. C. - GOUBLE, Barbara - BUREAU, Sylvie - LE BOURVELLEC, Carine. Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 152-164., Registrované v: WOS
18. [1.1] BUTLER, Holly J. - ADAMS, Steven - MCAINSH, Martin R. - MARTIN, Francis L. Detecting nutrient deficiency in plant systems using synchrotron Fourier-transform infrared microspectroscopy. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2017, vol. 90, no., pp. 46-55., Registrované v: WOS
19. [1.1] CHEN, Xiao-Qiang - ZHANG, Zhi-Fa - GAO, Zhi-Ming - HUANG, Yi - WU, Zheng-Qi. Physicochemical properties and cell-based bioactivity of Pu',erh tea polysaccharide conjugates. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 1294-1301., Registrované v: WOS
20. [1.1] CHEON, Hwayeong - YANG, Hee-Jin - SON, Joo-Hiuk. Toward Clinical Cancer Imaging Using Terahertz Spectroscopy. In *IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS*. ISSN 1077-260X, 2017, vol. 23, no. 4, pp., Registrované v: WOS
21. [1.1] CORSELLO, F. A. - BOLLA, P. A. - ANBINDER, P. S. - SERRADELL, M. A. - AMALVY, J. I. - PERUZZO, P. J. Morphology and properties of neutralized chitosan-cellulose nanocrystals biocomposite films. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 452-459., Registrované v: WOS
22. [1.1] DIVEKAR, Monali Trimbak - KARUNAKARAN, Chithra - LAHLALI, Rachid - KUMAR, Saroj - CHELLADURAI, Vellaichamy - LIU, Xia - BORONDICS, Ferenc - SHANMUGASUNDARAM, Saravanan - JAYAS, Digvir Singh. Effect of microwave treatment on the cooking and macronutrient qualities of pulses. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no. 2, pp. 409-422., Registrované v: WOS
23. [1.1] DREISCHMEIER, Katharina - BUDKE, Carsten - WIEHEMEIER, Lars - KOTTKE, Tilman - KOOP, Thomas. Boreal pollen contain ice-nucleating as well as ice-binding 'antifreeze' polysaccharides. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
24. [1.1] ESPINAL-RUIZ, Mauricio - RESTREPO-SANCHEZ, Luz-Patricia - NARVAEZ-CUENCA, Carlos-Eduardo - MCCLEMENTS, David Julian. Impact of pectin properties on lipid digestion under simulated gastrointestinal conditions: Comparison of citrus and banana passion fruit (*Passiflora tripartita* var. *mollissima*) pectins. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2016, vol. 52, no., pp. 329-342., Registrované v: WOS
25. [1.1] FAHEY, Leona M. - NIEUWOUDT, Michel K. - HARRIS, Philip J. Predicting the cell-wall compositions of *Pinus radiata* (radiata pine) wood using ATR and transmission FTIR spectroscopies. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 12, pp. 5275-5293., Registrované v: WOS
26. [1.1] FAN, Mingcong - HU, Ting - ZHAO, Siming - XIONG, Shanbai - XIE, Jing - HUANG, Qilin. Gel characteristics and microstructure of fish myofibrillar protein/cassava starch composites. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 218, no., pp. 221-230., Registrované v: WOS
27. [1.1] FARNET-DA SILVA, Anne Marie - FERRE, Elisee - DUPUY, Nathalie - DE LA BOUSSINIERE, Auriane - REBUFA, Catherine. Infra-red spectroscopy reveals chemical interactions driving water availability for enzyme activities in litters of typical Mediterranean tree species. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2017, vol. 114, no., pp. 72-81., Registrované v: WOS
28. [1.1] GANGOITI, M. V. - PUERTAS, A. I. - HAMET, M. F. - PERUZZO, P. J. - LLAMAS, M. G. - MEDRANO, M. - PRIETO, A. - DUENAS, M. T. - ABRAHAM, A. G. *Lactobacillus plantarum* CIDCA 8327: An alpha-glucan producing-strain isolated from kefir grains. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 170, no., pp. 52-59., Registrované v: WOS
29. [1.1] GAO, Yuefang - ZHOU, Yubo - ZHANG, Qiang - ZHANG, Kun - PENG, Pai - CHEN, Liangchao - XIAO, Bin. Hydrothermal extraction, structural characterization, and inhibition HeLa cells proliferation of functional polysaccharides from Chinese tea *Zhongcha* 108. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2017, vol. 39, no., pp. 1-8., Registrované v: WOS
30. [1.1] GAWORSKI, Michal - JABLONSKI, Slawomir - PAWLACZYK-GRAJA, Izabela - ZIEWIECKI, Rafal - RUTKOWSKI, Piotr - WIECZYNSKA, Anna - GANCARZ, Roman - LUKASZEWICZ, Marcin. Enhancing biogas plant production using pig manure and corn silage by adding wheat straw processed with liquid hot water and steam explosion. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
31. [1.1] GEORGIEV, Yordan N. - OGNJANOV, Manol H. - KIYOHARA, Hiroaki - BATSALOVA, Tsvetelina G. - DZHAMBAZOV, Balik M. - CIZ, Milan - DENEV, Petko N. - YAMADA, Haruki -

- PAULSEN, Berit S. - VASICEK, Ondrej - LOJEK, Antonin - BARSETT, Hilde - ANTONOVA, Daniela - KRATCHANOVA, Maria G. Acidic polysaccharide complexes from purslane, silver linden and lavender stimulate Peyer's patch immune cells through innate and adaptive mechanisms. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 730-740., Registrované v: WOS
32. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin - BATSALOVA, Tsvetelina G. - DZHAMBASOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. *Tilia tomentosa* pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS
33. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - YAMADA, Haruki - LOJEK, Antonin - KUSSOVSKI, Vesselin - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. The common lavender (*Lavandula angustifolia* Mill.) pectic polysaccharides modulate phagocytic leukocytes and intestinal Peyer's patch cells. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 948-959., Registrované v: WOS
34. [1.1] GILLGREN, Thomas - HEDENSTROM, Mattias - JONSSON, Leif J. Comparison of laccase-catalyzed cross-linking of organosolv lignin and lignosulfonates. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 438-446., Registrované v: WOS
35. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
36. [1.1] Glagoleva, L.E.; Gubin, A.S.; Aleksandrova, A.V.; Korotkih, I.V. Determination of the functional groups of the green buckwheat plant complexes by infrared spectroscopy method. In: *Vestnik Rossijskoi sel'skokhozyaistvennoi nauki* (2017), Issue: 4 Pages: 57-60, Registrované v: WOS
37. [1.1] HAMA, Tetsuya - KOUCHI, Akira - WATANABE, Naoki - ENAMI, Shinichi - SHIMOAKA, Takafumi - HASEGAWA, Takeshi. In Situ Nondestructive Analysis of *Kalanchoe pinnata* Leaf Surface Structure by Polarization-Modulation Infrared Reflection Absorption Spectroscopy. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 49, pp. 11124-11131., Registrované v: WOS
38. [1.1] HAMDANI, Afshan Mumtaz - WANI, Idrees Ahmed - GANI, Adil - BHAT, Naseer Ahmad - MASOODI, Farooq Ahmad. Effect of gamma irradiation on physicochemical, structural and rheological properties of plant exudate gums. In *INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES*. ISSN 1466-8564, 2017, vol. 44, no., pp. 74-82., Registrované v: WOS
39. [1.1] HAN, Wenfang - LI, Jiangtao - DING, Yuqin - XIONG, Shanbai - ZHAO, Siming. Structural Features, Antitumor and Antioxidant Activities of Rice Bran Polysaccharides Using Different Extraction Methods. In *JOURNAL OF FOOD SCIENCE*. ISSN 0022-1147, 2017, vol. 82, no. 10, pp. 2403-2410., Registrované v: WOS
40. [1.1] HANIF, Zahid - JEON, Hyeonyeol - THANG HONG TRAN - JEGAL, Jonggeon - PARK, Seul-A - KIM, Seon-Mi - PARK, Jeyoung - HWANG, Sung Yeon - OH, Dongyeop X. Butanol-mediated oven-drying of nanocellulose with enhanced dehydration rate and aqueous re-dispersion. In *JOURNAL OF POLYMER RESEARCH*. ISSN 1022-9760, 2017, vol. 25, no. 3, pp., Registrované v: WOS
41. [1.1] HASEEB, Muhammad Tahir - HUSSAIN, Muhammad Ajaz - BASHIR, Sajid - ASHRAF, Muhammad Umer - AHMAD, Naveed. Evaluation of superabsorbent linseed-polysaccharides as a novel stimuli-responsive oral sustained release drug delivery system. In *DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY*. ISSN 0363-9045, 2017, vol. 43, no. 3, pp. 409-420., Registrované v: WOS
42. [1.1] HRIBLIJAN, J. A. - KANE, E. S. - CHIMNER, R. A. Implications of Altered Hydrology for Substrate Quality and Trace Gas Production in a Poor Fen Peatland. In *SOIL SCIENCE SOCIETY OF AMERICA JOURNAL*. ISSN 0361-5995, 2017, vol. 81, no. 3, pp. 633-646., Registrované v: WOS
43. [1.1] HU, Yichen - ZHANG, Jinming - ZOU, Liang - FU, Chaomei - LI, Peng - ZHAO, Gang. Chemical characterization, antioxidant, immune-regulating and anticancer activities of a novel bioactive polysaccharide from *Chenopodium quinoa* seeds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 99, no., pp. 622-629., Registrované v: WOS
44. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of

- Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS*
45. [1.1] JIA, Zhi Xin - YU, Zhu Ping - ZHENG, Ying - LIU, Xin Liang - ZHOU, Jing Hong. *Impact of Sugar and Furfural Production from Cassava Residue of Hot Water Pretreatment. In JOURNAL OF BIOBASED MATERIALS AND BIOENERGY. ISSN 1556-6560, 2017, vol. 11, no. 6, pp. 616-621., Registrované v: WOS*
46. [1.1] JIAO, Fengping - WANG, Xiuxiu - SONG, Xinling - JING, Huijuan - LI, Shangshang - REN, Zhenzhen - GAO, Zheng - ZHANG, Jianjun - JIA, Le. *Processing optimization and anti-oxidative activity of enzymatic extractable polysaccharides from Pleurotus djamor. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 469-478., Registrované v: WOS*
47. [1.1] KAPOOR, Sabeeta - DHARMESH, Shylaja M. *Pectic Oligosaccharide from tomato exhibiting anticancer potential on a gastric cancer cell line: Structure-function relationship. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, no., pp. 52-61., Registrované v: WOS*
48. [1.1] KARAKI, N. - ALJAWISH, A. - MUNIGLIA, L. - BOUGUET-BONNET, S. - LECLERC, S. - PARIS, C. - JASNIEWSKI, J. - HUMEAU-VIROT, C. *Functionalization of pectin with laccase-mediated oxidation products of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 1-8., Registrované v: WOS*
49. [1.1] KHAWAS, Sadhana - NOSAL', OVA, Gabriela - MAJEE, Sujay Kumar - GHOSH, Kanika - RAJA, Washim - SIVOVA, Veronika - RAY, Bimalendu. *In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic effect with piperine. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 335-342., Registrované v: WOS*
50. [1.1] KOGKAKI, Efstathia A. - SOFOULIS, Manos - NATSKOULIS, Pantelis - TARANTILIS, Petros A. - PAPPAS, Christos S. - PANAGOULOU, Efstathios Z. *Differentiation and identification of grape-associated black aspergilli using Fourier transform infrared (FT-IR) spectroscopic analysis of mycelia. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 259, no., pp. 22-28., Registrované v: WOS*
51. [1.1] LAHLALI, Rachid - SONG, Tao - CHU, Mingguang - YU, Fengqun - KUMAR, Saroj - KARUNAKARAN, Chithra - PENG, Gary. *Evaluating Changes in Cell-Wall Components Associated with Clubroot Resistance Using Fourier Transform Infrared Spectroscopy and RT-PCR. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 10, pp., Registrované v: WOS*
52. [1.1] LEAO, Daniela P. - FRANCA, Adriana S. - OLIVEIRA, Leandro S. - BASTOS, Rita - COIMBRA, Manuel A. *Physicochemical characterization, antioxidant capacity, total phenolic and proanthocyanidin content of flours prepared from pequi (Caryocar brasiliense Camb.) fruit by-products. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 225, no., pp. 146-153., Registrované v: WOS*
53. [1.1] LI, Jing-En - WANG, Wen-Jun - ZHENG, Guo-Dong - LI, Lin-Yan. *Physicochemical properties and antioxidant activities of polysaccharides from Gynura procumbens leaves by fractional precipitation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 719-724., Registrované v: WOS*
54. [1.1] LI, Y. - ZHU, Y. - LIANG, R. - YANG, C. *Synthesis and antioxidant properties of caffeic acid corn bran arabinoxylan esters. In INTERNATIONAL JOURNAL OF COSMETIC SCIENCE. ISSN 0142-5463, 2017, vol. 39, no. 4, pp. 402-410., Registrované v: WOS*
55. [1.1] LIN, Haizhou - WANG, Shurong - ZHANG, Li - RU, Bin - ZHOU, Jinsong - LUO, Zhongyang. *Structural evolution of chars from biomass components pyrolysis in a xenon lamp radiation reactor. In CHINESE JOURNAL OF CHEMICAL ENGINEERING. ISSN 1004-9541, 2017, vol. 25, no. 2, pp. 232-237., Registrované v: WOS*
56. [1.1] LIU, Hua Min - LI, Hao-Yang - WEI, An-chi. *Enhanced Polysaccharides Yield Obtained from Hydrothermal Treatment of Corn Bran via Twin-screw Extrusion. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3933-3947., Registrované v: WOS*
57. [1.1] LIU, Hua-Min - LI, Hao-Yang - LI, Ming-Fei. *Cornstalk liquefaction in sub- and super-critical ethanol: Characterization of solid residue and the liquefaction mechanism. In JOURNAL OF THE ENERGY INSTITUTE. ISSN 1743-9671, 2017, vol. 90, no. 5, pp. 734-742., Registrované v: WOS*
58. [1.1] LIU, Jianhua - LI, Hu - WU, Jinhong - XIE, Fan - ZHANG, Juan - WANG, Zhengwu. *Determination of phosphoryl-oligosaccharides obtained from Canna edulis Ker starch. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 1-2, pp., Registrované v: WOS*
59. [1.1] LIU, Zhao-Dong - ZHOU, Qin - HONG, Zhi-Neng - XU, Ren-Kou. *Effects of Surface Charge and Functional Groups on the Adsorption and Binding Forms of Cu and Cd on Roots of*

- indica and japonica Rice Cultivars. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS*
60. [1.1] LIU, Zhao-dong - WANG, Hai-cui - ZHOU, Qin - XU, Ren-kou. Effects of adhesions of amorphous Fe and Al hydroxides on surface charge and adsorption of K⁺ and Cd²⁺ on rice roots. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2017, vol. 145, no., pp. 207-213., Registrované v: WOS
61. [1.1] LORENZ, Dominic - JANZON, Ron - SAAKE, Bodo. Determination of uronic acids and neutral carbohydrates in pulp and biomass by hydrolysis, reductive amination and HPAEC-UV. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 10, pp. 767-775., Registrované v: WOS
62. [1.1] LUO, Yiping - LI, Zheng - ZUO, Yini - SU, Zhishan - HU, Changwei. A Simple Two-Step Method for the Selective Conversion of Hemicellulose in *Pubescens* to Furfural. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 9, pp. 8137-8147., Registrované v: WOS
63. [1.1] MALISZEWSKA, Irena - TYLUS, Włodzimierz - CHECMANOWSKI, Jacek - SZCZYGIEL, Bogdan - PAWLACZYK-GRAJA, Izabela - PUSZ, Wojciech - BATURO-CIESNIEWSKA, Anna. Biomineralization of Gold by *Mucor Plumbeus*: The Progress in Understanding the Mechanism of Nanoparticles'; Formation. In BIOTECHNOLOGY PROGRESS. ISSN 8756-7938, 2017, vol. 33, no. 5, pp. 1381-1392., Registrované v: WOS
64. [1.1] MANEERAT, Nitjaree - TANGSUPHOOM, Nattapol - NITITHAMYONG, Anadi. Effect of extraction condition on properties of pectin from banana peels and its function as fat replacer in salad cream. In JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE. ISSN 0022-1155, 2017, vol. 54, no. 2, pp. 386-397., Registrované v: WOS
65. [1.1] MIERCZYNSKA, Joanna - CYBULSKA, Justyna - ZDUNEK, Artur. Rheological and chemical properties of pectin enriched fractions from different sources extracted with citric acid. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 443-451., Registrované v: WOS
66. [1.1] MIKSHINA, Polina V. - MAKSHAKOVA, Olga N. - PETROVA, Anna A. - GAIFULLINA, Ilzira Z. - IDIYATULLIN, Bulat Z. - GORSHKOVA, Tatyana A. - ZUEV, Yuriy F. Gelation of rhamnogalacturonan I is based on galactan side chain interaction and does not involve chemical modifications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 171, no., pp. 143-151., Registrované v: WOS
67. [1.1] MOHAMED, Amir Ibrahim - ABD-MOTAGALY, Amr Mohamed Elsayed - AHMED, Osama A. A. - AMIN, Suzan - ALI, Alaa Ibrahim Mohamed. Investigation of Drug-Polymer Compatibility Using Chemometric-Assisted UV-Spectrophotometry. In PHARMACEUTICS. ISSN 1999-4923, 2017, vol. 9, no. 1, pp., Registrované v: WOS
68. [1.1] OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. Meadowsweet Teas as New Functional Beverages: Comparative Analysis of Nutrients, Phytochemicals and Biological Effects of Four *Filipendula* Species. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 1, pp., Registrované v: WOS
69. [1.1] OZGENC, Ozlem - DURMAZ, Sefa - KUSTAS, Suleyman. Chemical Analysis of Tree Barks using ATR-FTIR Spectroscopy and Conventional Techniques. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 9143-9151., Registrované v: WOS
70. [1.1] PANIAGUA, Candelas - SANTIAGO-DOMENECH, Nieves - KIRBY, Andrew R. - GUNNING, A. Patrick - MORRIS, Victor J. - QUESADA, Miguel A. - MATAS, Antonio J. - MERCADO, Jose A. Structural changes in cell wall pectins during strawberry fruit development. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 118, no., pp. 55-63., Registrované v: WOS
71. [1.1] PARK, Hye-Ryung - PARK, Su Beom - HONG, Hee-Do - SUH, Hyung Joo - SHIN, Kwang-Soon. Structural elucidation of anti-metastatic rhamnogalacturonan II from the pectinase digest of citrus peels (*Citrus unshiu*). In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 161-169., Registrované v: WOS
72. [1.1] PODGORSKA, Anna - BURIAN, Maria - GIECZEWSKA, Katarzyna - OSTASZEWSKA-BUGAJSKA, Monika - ZEBROWSKI, Jacek - SOLECKA, Danuta - SZAL, Bożena. Altered Cell Wall Plasticity Can Restrict Plant Growth under Ammonium Nutrition. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
73. [1.1] POUDEL, Suresh - GIANNONE, Richard J. - RODRIGUEZ, Miguel - RAMAN, Babu - MARTIN, Madhavi Z. - ENGLE, Nancy L. - MIELENZ, Jonathan R. - NOOKAEW, Intawat - BROWN, Steven D. - TSCHAPLINSKI, Timothy J. - USSERY, David - HETTICH, Robert L. Integrated omics analyses reveal the details of metabolic adaptation of *Clostridium thermocellum* to lignocellulose-derived growth inhibitors released during the deconstruction of switchgrass. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
74. [1.1] Pan, Feng; Yao, Yunxin; Tang, Xin; Wu, Wei. Physicochemical property and antioxidant

- activity of exopolysaccharide produced by endophytic fungal *Fusarium redolens* 6WBY3 isolated from *Fritillaria unibracteata* var. *wabuensis*. In: *Weishengwu Xuebao* Volume: 57 Issue: 2 Pages: 240-253, Registrované v: WOS
75. [1.1] RAMOS-AGUILAR, Ana L. - VICTORIA-CAMPOS, Claudia I. - OCHOA-REYES, Emilio - DE JESUS ORNELAS-PAZ, Jose - ZAMUDIO-FLORES, Paul B. - RIOS-VELASCO, Claudio - REYES-HERNANDEZ, Jaime - PEREZ-MARTINEZ, Jaime D. - IBARRA-JUNQUERA, Vrani. Physicochemical properties of apple juice during sequential steps of the industrial processing and functional properties of pectin fractions from the generated pomace. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 86, no., pp. 465-472., Registrované v: WOS
76. [1.1] REBAQUE, Diego - MARTINEZ-RUBIO, Romina - FORNALE, Silvia - GARCIA-ANGULO, Penelope - ALONSO-SIMON, Ana - ALVAREZ, Jesus M. - CAPARROS-RUIZ, David - ACEBES, Jose L. - ENCINA, Antonio. Characterization of structural cell wall polysaccharides in cattail (*Typha latifolia*): Evaluation as potential biofuel feedstock. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 679-688., Registrované v: WOS
77. [1.1] SAPINA, Maria - JIMENEZ-RELINQUE, Eva - NEVSHUPA, Roman - ROMAN, Elisa - CASTELLOTE, Marta. Degradation of pollen on nanofunctionalized photocatalytic materials. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*. ISSN 0268-2575, 2017, vol. 92, no. 1, pp. 210-216., Registrované v: WOS
78. [1.1] SHARM, Sweta - UTTAM, K. N. Rapid analyses of stress of copper oxide nanoparticles on wheat plants at an early stage by laser induced fluorescence and attenuated total reflectance Fourier transform infrared spectroscopy. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2017, vol. 92, no., pp. 135-150., Registrované v: WOS
79. [1.1] SHERAHI, Mousa Hamidabadi - FATHI, Morteza - ZHANDARI, Fatemeh - HASHEMI, Seyed Mohammad Bagher - RASHIDI, Afshin. Structural characterization and physicochemical properties of *Descurainia sophia* seed gum. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 66, no., pp. 82-89., Registrované v: WOS
80. [1.1] SHI, Chen-Shan - SANG, Ya-Xin - SUN, Gui-Qing - LI, Tian-Ye - GONG, Zheng-Si - WANG, Xiang-Hong. Characterization and bioactivities of a novel polysaccharide obtained from *Gracilariopsis lemaneiformis*. In *ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS*. ISSN 0001-3765, 2017, vol. 89, no. 1, pp. 175-189., Registrované v: WOS
81. [1.1] SINGH, R. D. - BHUYAN, K. - BANERJEE, J. - MUIR, J. - ARORA, A. Hydrothermal and microwave assisted alkali pretreatment for fractionation of arecanut husk. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 102, no., pp. 65-74., Registrované v: WOS
82. [1.1] SOURKI, Abdollah Hematian - KOOCHEKI, Arash - ELAHI, Mohammad. Ultrasound-assisted extraction of beta-D-glucan from hull-less barley: Assessment of physicochemical and functional properties. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 95, no., pp. 462-475., Registrované v: WOS
83. [1.1] SUNDARRAJ, Antony Allwyn - RANGANATHAN, Thottiam Vasudevan. Physicochemical characterization of Jackfruit (*Artocarpus integer* (Thumb.)). In *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*. ISSN 0975-8585, 2017, vol. 8, no. 3, pp. 2285-2295., Registrované v: WOS
84. [1.1] TABARSA, Mehdi - ANVARI, Mohammad - JOYNER (MELITO), Helen S. - BEHNAM, Shabnam - TABARSA, Alireza. Rheological behavior and antioxidant activity of a highly acidic gum from *Althaea officinalis* flower. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 69, no., pp. 432-439., Registrované v: WOS
85. [1.1] TOAN LE THANH - THUMANU, Kanjana - WONGKAEW, Sopone - BOONKERD, Nantakorn - TEAUMROONG, Neung - PHANSAK, Piyaporn - BUENSANTEAI, Natthiya. Salicylic acid-induced accumulation of biochemical components associated with resistance against *Xanthomonas oryzae* pv. *oryzae* in rice. In *JOURNAL OF PLANT INTERACTIONS*. ISSN 1742-9145, 2017, vol. 12, no. 1, pp. 108-120., Registrované v: WOS
86. [1.1] TORRES-GINER, Sergio - WILKANOWICZ, Sabina - MELENDEZ-RODRIGUEZ, Beatriz - LAGARON, Jose M. Nanoencapsulation of Aloe vera in Synthetic and Naturally Occurring Polymers by Electrohydrodynamic Processing of Interest in Food Technology and Bioactive Packaging. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 22, pp. 4439-4448., Registrované v: WOS
87. [1.1] TROSHCHYNSKA, Yana - SYNYTSYA, Andriy - KYSELKA, Jan - STETINA, Jiri. FLAXSEED MEAL MUCILAGE POLYSACCHARIDES: CHEMICAL CHARACTERIZATION AND PURIFICATION. In *PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE, 2016*. ISSN 2336-6796, 2016, vol., no., pp. 273-277., Registrované v: WOS
88. [1.1] TSIRIGOTIS-MANIECKA, Marta - LAMCH, Lukasz - CHOJNACKA, Ida - GANCARZ, Roman - WILK, Kazimiera A. Microencapsulation of hesperidin in polyelectrolyte complex microbeads: Physico-chemical evaluation and release behavior. In *JOURNAL OF FOOD*

- ENGINEERING. ISSN 0260-8774, 2017, vol. 214, no., pp. 104-116., Registrované v: WOS
89. [1.1] VANESSA CALDERON-PERALTA, Cinthya - JIMENEZ-HERNANDEZ, Javier - IXCHEL MALDONADO-ASTUDILLO, Yanik - FLORES-CASAMAYOR, Veronica - ARAMBULA-VILLA, Geronimo - SALAZAR, Ricardo. Influence of Hymenaea courbaril gum as a new additive on nixtamalized flour properties and quality of tortilla. In JOURNAL OF FOOD PROCESS ENGINEERING. ISSN 0145-8876, 2017, vol. 40, no. 5, pp., Registrované v: WOS
90. [1.1] WANG, Li - LIU, Hua-Min - QIN, Guang-Yong. Structure characterization and antioxidant activity of polysaccharides from Chinese quince seed meal. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 234, no., pp. 314-322., Registrované v: WOS
91. [1.1] WANG, Xiaoli - ZHANG, Yifei - LIU, Zhikai - ZHAO, Mingqin - LIU, Pengfei. Purification, Characterization, and Antioxidant Activity of Polysaccharides Isolated from Cortex Periplociae. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 11, pp., Registrované v: WOS
92. [1.1] WANG, Xing-Quan - ZHOU, Ren-Wu - DE GROOT, Gerard - BAZAKA, Kateryna - MURPHY, Anthony B. - OSTRIKOV, Kostya (Ken). Spectral characteristics of cotton seeds treated by a dielectric barrier discharge plasma. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
93. [1.1] WANG, Yao-Yao - QIU, Wen-Yi - WANG, Zhen-Bin - MA, Hai-Le - YAN, Jing-Kun. Extraction and characterization of anti-oxidative polysaccharide-protein complexes from Corbicula fluminea through three-phase partitioning. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 18, pp. 11067-11075., Registrované v: WOS
94. [1.1] WANG, Yatao - LIU, Yanfang - YU, Huazheng - ZHOU, Shuai - ZHANG, Zhong - WU, Di - YAN, Mengqiu - TANG, Qingjiu - ZHANG, Jingsong. Structural characterization and immuno-enhancing activity of a highly branched water-soluble beta-glucan from the spores of Ganoderma lucidum. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 337-344., Registrované v: WOS
95. [1.1] WIERCIGROCH, Ewelina - SZAFRANIEC, Ewelina - CZAMARA, Krzysztof - PACIA, Marta Z. - MAJZNER, Katarzyna - KOCHAN, Kamila - KACZOR, Agnieszka - BARANSKA, Malgorzata - MALEK, Kamilla. Raman and infrared spectroscopy of carbohydrates: A review. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2017, vol. 185, no., pp. 317-335., Registrované v: WOS
96. [1.1] WU, Boran - DAI, Xiaohu - CHAI, Xiaoli. Simultaneous enhancement of sludge dewaterability and removal of sludge-borne heavy metals through a novel oxidative leaching induced by nano-CaO₂. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 19, pp. 16263-16275., Registrované v: WOS
97. [1.1] XIAO, Yidong - HUANG, Qilin - ZHENG, Zhaomin - GUAN, Han - LIU, Shiyu. Construction of a Cordyceps sinensis exopolysaccharide-conjugated selenium nanoparticles and enhancement of their antioxidant activities. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 483-491., Registrované v: WOS
98. [1.1] YUAN, Cheng - CHEN, Mingsong - LUO, Jing - LI, Xiaona - GAO, Qiang - LI, Jianzhang. A novel water-based process produces eco-friendly bio-adhesive made from green cross-linked soybean soluble polysaccharide and soy protein. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 417-425., Registrované v: WOS
99. [1.1] ZHANG, Xueqin - LIU, Chuanfu - ZHANG, Aiping - SUN, Runcang. Organic Catalysis for the Ring-Opening Graft Polymerization of p-Dioxanone with Xylan in Ionic Liquid. In POLYMERS. ISSN 2073-4360, 2017, vol. 9, no. 8, pp., Registrované v: WOS
100. [1.1] ZHAO, Huajie - LI, Juan - ZHANG, Jianjun - WANG, Xiuxiu - HAO, Long - JIA, Le. Purification, in vitro antioxidant and in vivo anti-aging activities of exopolysaccharides by Agrocybe cylindracea. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 102, no., pp. 351-357., Registrované v: WOS
101. [1.1] ZHAO, Xianhai - QIAO, Lijun - WU, Ai-Min. Effective extraction of Arabidopsis adherent seed mucilage by ultrasonic treatment. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
102. [1.1] ZHENG, Pimiao - FAN, Wentao - WANG, Shenghua - HAO, Pan - WANG, Yang - WAN, Huiyu - HAO, Zhihui - LIU, Jianzhu - ZHAO, Xiaona. Characterization of polysaccharides extracted from Platycodon grandiflorus (Jacq.) A.DC. affecting activation of chicken peritoneal macrophages. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 96, no., pp. 775-785., Registrované v: WOS
103. [1.1] ZHU, Kexue - ZHANG, Yanjun - NIE, Shaoping - XU, Fei - HE, Shuzhen - GONG, Deming - WU, Gang - TAN, Lehe. Physicochemical properties and in vitro antioxidant activities of polysaccharide from Artocarpus heterophyllus Lam. pulp. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 354-361., Registrované v: WOS
104. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingviold - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI,

- Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of *Ligusticum chuanxiong*. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS
105. [1.2] RAKITIKUL, Waleepan. Determination of tannin in coffee pulp using experimental and theoretical approaches. In *Key Engineering Materials*. ISSN 10139826, 2017-01-01, 751 KEM, pp. 683-688., Registrované v: SCOPUS
106. [1.2] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seedling *medicago sativa* (fabaceae) flora of the Krasnoyarsk territory. In *Khimiya Rastitel'nykh Syr'ya*. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS
107. [1.2] SHAH, Asima - GANI, Adil - MASOODI, F. A. - WANI, Shoib M. - ASHWAR, Bilal Ahmad. Structural, rheological and nutraceutical potential of β -glucan from barley and oat. In *Bioactive Carbohydrates and Dietary Fibre*. ISSN 22126198, 2017-04-01, 10, pp. 10-16., Registrované v: SCOPUS
108. [1.2] SUN, Run Cang - XIAO, Ling Ping - SONG, Guo Yong. Effect of hydrothermal processing on hemicellulose structure. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 45-94., Registrované v: SCOPUS
109. [1.2] TONGKHAM, Nudthapong - JUNTASALAY, Boonyawee - LASUNON, Patareeya - SENGKHAMPARN, Nipaporn. Dragon fruit peel pectin: Microwave-assisted extraction and fuzzy assessment. In *Agriculture and Natural Resources*. ISSN 2452316X, 2017-08-01, 51, 4, pp. 262-267., Registrované v: SCOPUS

ADCA299

KAČURÁKOVÁ, Marta - MATHLOUTHI, M. FTIR and laser-Raman spectra of oligosaccharides in water: Characterization of the glycosidic bond. In *Carbohydrate Research*, 1996, vol. 284, no. 2, p. 145-157. (1.506 - IF1995). ISSN 0008-6215.

Citácie:

- [1.1] AHMAD, Mudasir - QURESHI, Shahida - MAQSOOD, Sajid - GANI, Adil - MASOODI, F. A. Micro-encapsulation of folic acid using horse chestnut starch and beta-cyclodextrin: Microcapsule characterization, release behavior & antioxidant potential during GI tract conditions. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 66, no., pp. 154-160., Registrované v: WOS
- [1.1] COZAR, Omuc - CIOICA, Nicolae - COTA, Constantin - NAGY, Elena Mihaela - FECHETE, Radu. Plasticizers Effect on Native Biodegradable Package Materials. In *TIM15-16 PHYSICS CONFERENCE*. ISSN 0094-243X, 2017, vol. 1796, no., pp., Registrované v: WOS
- [1.1] DIVEKAR, Monali Trimbak - KARUNAKARAN, Chithra - LAHLALI, Rachid - KUMAR, Saroj - CHELLADURAI, Vellaichamy - LIU, Xia - BORONDICS, Ferenc - SHANMUGASUNDARAM, Saravanan - JAYAS, Digvir Singh. Effect of microwave treatment on the cooking and macronutrient qualities of pulses. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no. 2, pp. 409-422., Registrované v: WOS
- [1.1] ELVIA ROSAS-MENDOZA, Marta - CORIA-HERNANDEZ, Jonathan - MELENDEZ-PEREZ, Rosalia - ARJONA-ROMAN, Jose Luis. Characteristics of Chia (*Salvia hispanica* L.) Seed Oil Extracted by Ultrasound Assistance. In *JOURNAL OF THE MEXICAN CHEMICAL SOCIETY*. ISSN 1870-249X, 2017, vol. 61, no. 4, pp. 326-335., Registrované v: WOS
- [1.1] JAMIR, Kizukala - SESHAGIRIRAO, Kottapalli. Isolation, characterization and comparative study of starches from selected Zingiberaceae species, a non-conventional source. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 72, no., pp. 247-253., Registrované v: WOS
- [1.1] MENG, Yeqiao - YE, Lin. Synthesis and swelling property of superabsorbent starch grafted with acrylic acid/2-acrylamido-2-methyl-1-propanesulfonic acid. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 11, pp. 3831-3840., Registrované v: WOS
- [1.1] MYRON, Pang - SIDDIQUEE, Shafiquzzaman - AL AZAD, Sujjat. Partial structural studies of fucosylated chondroitin sulfate (FuCS) using attenuated total reflection fourier transform infrared spectroscopy (ATR-FTIR) and chemometrics. In *VIBRATIONAL SPECTROSCOPY*. ISSN 0924-2031, 2017, vol. 89, no., pp. 26-36., Registrované v: WOS
- [1.1] NAGY, E. M. - COTA, C. - CIOICA, N. - GYORGY, Z. - TODICA, M. - COZAR, O. FT-IR Investigation of Starch Based Composite Reinforced with Miscanthus Fibers. In *11TH INTERNATIONAL CONFERENCE OF PROCESSES IN ISOTOPES AND MOLECULES (PIM 2017)*. ISSN 0094-243X, 2017, vol. 1917, no., pp., Registrované v: WOS
- [1.1] PALANIAPPAN, Ayyappan - BALASUBRAMANIAM, V. Geetha - ANTONY, Usha. Prebiotic potential of xylooligosaccharides derived from finger millet seed coat. In *FOOD BIOTECHNOLOGY*. ISSN 0890-5436, 2017, vol. 31, no. 4, pp. 264-280., Registrované v: WOS

10. [1.1] SABERI, Bahareh - CHOCKCHAI SAWASDEE, Suwimol - GOLDING, John B. - SCARLETT, Christopher J. - STATHOPOULOS, Costas E. Physical and mechanical properties of a new edible film made of pea starch and guar gum as affected by glycols, sugars and polyols. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, no., pp. 345-359., Registrované v: WOS
11. [1.1] SHIRAGA, Keiichi - ADACHI, Aya - NAKAMURA, Masahito - TAJIMA, Takuro - AJITO, Katsuhiro - OGAWA, Yuichi. Characterization of the hydrogen-bond network of water around sucrose and trehalose: Microwave and terahertz spectroscopic study. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2017, vol. 146, no. 10, pp., Registrované v: WOS
12. [1.1] SINGH, Inderjeet - GOYAL, Yasmeen - RANAWAT, Pavitra. Potential chemoprotective role of resveratrol against cisplatin induced testicular damage in mice. In *CHEMICO-BIOLOGICAL INTERACTIONS*. ISSN 0009-2797, 2017, vol. 273, no., pp. 200-211., Registrované v: WOS
13. [1.1] SRITHAM, Eakasit - GUNASEKARAN, Sundaram. FTIR spectroscopic evaluation of sucrose-maltodextrin-sodium citrate bioglass. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 70, no., pp. 371-382., Registrované v: WOS
14. [1.1] SUBRAMANIAM, Shankar - SIVASUBRAMANIAN, Aravind. An alternative green separation process for the pure isolation of commercially important bioactive molecules from plants. In *GREEN PROCESSING AND SYNTHESIS*. ISSN 2191-9542, 2017, vol. 6, no. 2, pp. 235-244., Registrované v: WOS
15. [1.1] TANG, Jinqiang - ZHU, Liangfang - FU, Xing - DAI, Jinhang - GUO, Xiawei - HU, Changwei. Insights into the Kinetics and Reaction Network of Aluminum Chloride-Catalyzed Conversion of Glucose in NaCl-H₂O/THF Biphasic System. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 1, pp. 256-266., Registrované v: WOS
16. [1.1] TAREB, R. - BERNARDEAU, M. - AMIEL, C. - VERNOUX, J. P. Usefulness of FTIR spectroscopy to distinguish rough and smooth variants of *Lactobacillus farciminis* CNCM-I-3699. In *FEMS MICROBIOLOGY LETTERS*. ISSN 0378-1097, 2017, vol. 364, no. 3, pp., Registrované v: WOS
17. [1.1] WANG, Xing-Quan - ZHOU, Ren-Wu - DE GROOT, Gerard - BAZAKA, Kateryna - MURPHY, Anthony B. - OSTRIKOV, Kostya (Ken). Spectral characteristics of cotton seeds treated by a dielectric barrier discharge plasma. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
18. [1.1] WIERCIGROCH, Ewelina - SZAFRANIEC, Ewelina - CZAMARA, Krzysztof - PACIA, Marta Z. - MAJZNER, Katarzyna - KOCHAN, Kamila - KACZOR, Agnieszka - BARANSKA, Malgorzata - MALEK, Kamilla. Raman and infrared spectroscopy of carbohydrates: A review. In *SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY*. ISSN 1386-1425, 2017, vol. 185, no., pp. 317-335., Registrované v: WOS
19. [1.1] ZHANG, Zhi-Peng - SHEN, Can-Can - GAO, Fu-Li - WEI, Hui - REN, Di-Feng - LU, Jun. Isolation, Purification and Structural Characterization of Two Novel Water-Soluble Polysaccharides from *Anredera cordifolia*. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS
20. [1.2] KANOU, Mikihiro - KAMEOKA, Takaharu - SUEHARA, Ken Ichiro - HASHIMOTO, Atsushi. Mid-infrared spectroscopic analysis of saccharides in aqueous solutions with sodium chloride. In *Bioscience, Biotechnology and Biochemistry*. ISSN 09168451, 2017-01-01, 81, 4, pp. 735-742., Registrované v: SCOPUS
21. [1.2] ROVKINA, K. I. - KRIVOSHCHIEKOV, S. V. - GURYEV, A. M. - YUSUBOV, M. S. - BELOUSOV, M. V. Water-soluble polysaccharides of herbs of suckling seedling *medicago sativa* (fabaceae) flora of the Krasnoyarsk territory. In *Khimiya Rastitel'nykh Syr'ya*. ISSN 10295151, 2017-01-01, 2, pp. 57-64., Registrované v: SCOPUS

ADCA300

KAČURÁKOVÁ, Marta - WILSON, R.H. Developments in mid-infrared FT-IR spectroscopy of selected carbohydrates. In *Carbohydrate Polymers*, 2001, vol. 44, p. 291-303. (1.184 - IF2000). (2001 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] AZUMA, Wakana - NAKASHIMA, Satoru - YAMAKITA, Eri - ISHII, H. Roaki - KURODA, Keiko. Water retained in tall *Cryptomeria japonica* leaves as studied by infrared micro-spectroscopy. In *TREE PHYSIOLOGY*. ISSN 0829-318X, 2017, vol. 37, no. 10, pp. 1367-1378., Registrované v: WOS
2. [1.1] BAO CHEN - ZENG HONG-LIANG - ZHANG YI - LU XU - ZHANG LONG-TAO - HUANG CAN-CAN - ZHENG BAO-DONG. Structural Characteristics of Semen coicis Resistant Starch and Its Effect on the Proliferation of *Bifidobacterium bifidum*. In *CHINESE JOURNAL OF STRUCTURAL CHEMISTRY*. ISSN 0254-5861, 2017, vol. 36, no. 3, pp. 511-521., Registrované v: WOS
3. [1.1] BOCZKOWSKA, Maja - ZEBROWSKI, Jacek - NOWOSIELSKI, Jarosaw -

- KORDULASIASKA, Izabela - NOWOSIELSKA, Dorota - PODYMA, Wiesaw. *Environmentally-related genotypic, phenotypic and metabolic diversity of oat (Avena sativa L.) landraces based on 67 Polish accessions*. In *GENETIC RESOURCES AND CROP EVOLUTION*. ISSN 0925-9864, 2017, vol. 64, no. 8, pp. 1829-1840., Registrované v: WOS
4. [1.1] BRAHEM, Marwa - RENARD, Catherine M. G. C. - GOUBLE, Barbara - BUREAU, Sylvie - LE BOURVELLEC, Carine. *Characterization of tissue specific differences in cell wall polysaccharides of ripe and overripe pear fruit*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 152-164., Registrované v: WOS
5. [1.1] CASTANO, J. - GUADARRAMA-LEZAMA, A. Y. - HERNANDEZ, J. - COLIN-CRUZ, M. - MUNOZ, M. - CASTILLO, S. *Preparation, characterization and antifungal properties of polysaccharide-polysaccharide and polysaccharide-protein films*. In *JOURNAL OF MATERIALS SCIENCE*. ISSN 0022-2461, 2017, vol. 52, no. 1, pp. 353-366., Registrované v: WOS
6. [1.1] FAHEY, Leona M. - NIEUWOUDT, Michel K. - HARRIS, Philip J. *Predicting the cell-wall compositions of Pinus radiata (radiata pine) wood using ATR and transmission FTIR spectroscopies*. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 12, pp. 5275-5293., Registrované v: WOS
7. [1.1] GHOSHAL, G. - SHIVHARE, U. S. - BANERJEE, U. C. *Rheological properties and microstructure of xylanase containing whole wheat bread dough*. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE*. ISSN 0022-1155, 2017, vol. 54, no. 7, pp. 1928-1937., Registrované v: WOS
8. [1.1] HRIBLIJAN, J. A. - KANE, E. S. - CHIMNER, R. A. *Implications of Altered Hydrology for Substrate Quality and Trace Gas Production in a Poor Fen Peatland*. In *SOIL SCIENCE SOCIETY OF AMERICA JOURNAL*. ISSN 0361-5995, 2017, vol. 81, no. 3, pp. 633-646., Registrované v: WOS
9. [1.1] HU, Yamin - WANG, Shuang - WANG, Qian - HE, Zhixia - LIN, Xiaochi - XU, Shannan - JI, Hengsong - LI, Yun. *Effect of different pretreatments on the thermal degradation of seaweed biomass*. In *PROCEEDINGS OF THE COMBUSTION INSTITUTE*. ISSN 1540-7489, 2017, vol. 36, no. 2, pp. 2271-2281., Registrované v: WOS
10. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. *Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
11. [1.1] JAGTAP, Sharmili - DESHMUKH, Rehan Ahmed - MENON, Shylaja - DAS, Santanu. *Xylooligosaccharides production by crude microbial enzymes from agricultural waste without prior treatment and their potential application as nutraceuticals*. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 245, no., pp. 283-288., Registrované v: WOS
12. [1.1] LEE, WonWoo - KANG, Nalae - KIM, Eun-A. - YANG, Hye-Won - OH, Jae-Young - FERNANDO, Ilekuttige Priyan Shanura - KIM, Kil-Nam - AHN, Ginnae - JEON, You-Jin. *Radioprotective effects of a polysaccharide purified from Lactobacillus plantarum-fermented Ishige okamurae against oxidative stress caused by gamma ray-irradiation in zebrafish in vivo model*. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2017, vol. 28, no., pp. 83-89., Registrované v: WOS
13. [1.1] NIKOLIC, Goran S. - CAKIC, Milorad D. - GLISIC, Slobodan - CVETKOVIC, Dragan J. - MITIC, Zarko J. - MARKOVIC, Dragana Z. *Study of Green Nanoparticles and Biocomplexes Based on Exopolysaccharide by Modern Fourier Transform Spectroscopy*. In *FOURIER TRANSFORMS HIGH-TECH APPLICATION AND CURRENT TRENDS*, 2017, vol., no., pp. 149-174., Registrované v: WOS
14. [1.1] QI, Liang - JI, Guangyin - LUO, Zhigang - XIAO, Zhigang - YANG, Qingyu. *Characterization and Drug Delivery Properties of OSA Starch-Based Nanoparticles Prepared in [C(3)OHmim]Ac-in-Oil Microemulsions System*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 10, pp. 9517-9526., Registrované v: WOS
15. [1.1] QIAO, Zhibang - LV, Shanshan - GU, Jiyou - TAN, Haiyan - SHI, Junyou - ZHANG, Yanhua. *Influence of acid hydrolysis on properties of maize starch adhesive*. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 2, pp. 148-155., Registrované v: WOS
16. [1.1] TUCKER, Matthew R. - MA, Chao - PHAN, Jana - NEUMANN, Kylie - SHIRLEY, Neil J. - HAHN, Michael G. - COZZOLINO, Daniel - BURTON, Rachel A. *Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Plantago ovata Using Gamma Irradiation Spectroscopy*. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
17. [1.1] WANG, Juan - HUANG, Hui Hua - CHEN, Ping Sheng. *Structural and physicochemical properties of banana resistant starch from four cultivars*. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no. 6, pp. 1338-1347., Registrované v: WOS

18. [1.1] YEW, Ying Teng - LOO, Adeline Huiling - SOFER, Zdenek - KLIMOVA, Katerina - PUMERA, Martin. Coke-derived graphene quantum dots as fluorescence nanoquencher in DNA detection. In *APPLIED MATERIALS TODAY*. ISSN 2352-9407, 2017, vol. 7, no., pp. 138-143., Registrované v: WOS
19. [1.2] ELMI, Fatemeh - MOVAGHAR, Afshin Fayyaz - ELMI, Maryam Mitra - ALINEZHAD, Heshmatollah - NIKBAKHSH, Novin. Application of FT-IR spectroscopy on breast cancer serum analysis. In *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. ISSN 13861425, 2017-12-05, 187, pp. 87-91., Registrované v: SCOPUS
20. [1.2] LEE, Ye Eun - JO, Jun Ho - KIM, I. Tae - YOO, Yeong Seok. Chemical characteristics and NaCl component behavior of biochar derived from the salty food waste by water flushing. In *Energies*, 2017-10-01, 10, 10, pp., Registrované v: SCOPUS
21. [1.2] MERTENS, Kenneth Neil - GU, Haifeng - POSPELOVA, Vera - CHOMÉRAT, Nicolas - NÉZAN, Elisabeth - GURDEBEKE, Pieter Roger - BOGUS, Kara - VRIELINCK, Henk - RUMEBE, Myriam - METEIGNER, Claire. First record of resting cysts of the benthic dinoflagellate *Prorocentrum leve* in a natural reservoir in Gujan-Mestras, Gironde, France. In *Journal of Phycology*. ISSN 00223646, 2017-12-01, 53, 6, pp. 1193-1205., Registrované v: SCOPUS
- ADCA301 KÁKOŠOVÁ, Anna - DIGONNET, Catherine - GOUBET, Florencie - RANOCHA, Philippe - JAUNEAU, Alain - PESQUET, Eduuard - BARBIER, Odile - ZHANG, Zhinong - CAPEK, Peter - DUPREE, Paul - LIŠKOVÁ, Desana - GOFFNER, Deborah. Galactoglucomannans increase cell population density and alter the protoxylem/metaxylem tracheary element ratio in xylogenic cultures of zinnia. In *Plant Physiology*, 2006, vol. 142, p.696-709. (6.114 - IF2005). (2006 - Current Contents). ISSN 0032-0889.
- Citácie:
1. [1.1] NGUYEN, Suong T.T. - MCCURDY, David W. Transdifferentiation: A plant perspective. In *Molecular Cell Biology of the Growth and Differentiation of Plant Cells*, 2017-01-01, pp. 298-319., Registrované v: SCOPUS
2. [1.1] WOLF, Sebastian. Plant cell wall signalling and receptor-like kinases. In *BIOCHEMICAL JOURNAL*. ISSN 0264-6021, 2017, vol. 474, no., pp. 471-492., Registrované v: WOS
- ADCA302 KÁKOŠOVÁ, Anna - DIGONNET, Catherine - GOFFNER, Deborah - LIŠKOVÁ, Desana. Galactoglucomannan oligosaccharides are assumed to affect tracheary element formation via interaction with auxin in Zinnia xylogenic cell culture. In *Plant Cell Reports*, 2013, vol. 32, p. 479-487. (2.509 - IF2012). (2013 - Current Contents). ISSN 0721-7714.
- Citácie:
1. [1.1] IAKIMOVA, Elena T. - WOLTERING, Ernst J. Xylogenesis in zinnia (*Zinnia elegans*) cell cultures: unravelling the regulatory steps in a complex developmental programmed cell death event. In *PLANTA*. ISSN 0032-0935, 2017, vol. 245, no. 4, pp. 681-705., Registrované v: WOS
- ADCA303 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.
- Citácie:
1. [1.1] AIMANIANDA, Vishukumar - SIMENEL, Catherine - GARNAUD, Cecile - CLAVAUD, Cecile - TADA, Rui - BARBIN, Lise - MOUYNA, Isabelle - HEDDERGOTT, Christoph - POPOLO, Laura - OHYA, Yoshikazu - DELEPIERRE, Muriel - LATGE, Jean-Paul. The Dual Activity Responsible for the Elongation and Branching of beta-(1,3)-Glucan in the Fungal Cell Wall. In *MBIO*. ISSN 2150-7511, 2017, vol. 8, no. 3, pp., Registrované v: WOS
- ADCA304 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. (5.214 - IF2009). (2010 - Current Contents). ISSN 0003-2700.
- Citácie:
1. [1.1] GIMENEZ-GOMEZ, Pablo - GUTIERREZ-CAPITAN, Manuel - PUIG-PUJOL, Anna - CAPDEVILA, Fina - MUNOZ, Sergio - TOBENA, Andreu - MIRO, Antoni - JIMENEZ-JORQUERA, Cecilia. Analysis of free and total sulfur dioxide in wine by using a gas-diffusion analytical system with pH detection. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 228, no., pp. 518-525., Registrované v: WOS
- ADCA305 KAMMER, VON DER, H. - HANES, Jozef - KLAUDINY, Jaroslav - SCHEIT K.H. A human amyloid precursor-like protein is highly homologous to a mouse sequence-specific DNA-binding protein. In *DNA and Cell Biology*, 1994, vol. 13, p. 1137-1143. ISSN 1044-5498.
- Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. Q06481. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q06481>, Registrované v: WOS

- ADCA306 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] FARHADI, Neda. Structural elucidation of a water-soluble polysaccharide isolated from *Balangu shirazi* (*Lallemantia royleana*) seeds. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 72, no., pp. 263-270., Registrované v: WOS
2. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS
3. [1.1] MUDARISOVA, R. Kh. - KOPTYAEVA, E. I. - Badykova, L. A. Solid-phase modification of chitosan, pectin, and arabinogalactan with poorly soluble herbicide chlorsulfuron. In *POLYMER SCIENCE SERIES B*. ISSN 1560-0904, 2017, vol. 59, no. 5, pp. 570-576., Registrované v: WOS
4. [1.2] NEVEROVA, N. A. - MEDVEDEVA, E. N. - LEVCHUK, A. A. - BABKIN, V. A. The research of gmelin larch (*Larix Gmelinii* (Rupr.) Rupr.) Gum. In *Khimiya Rastitel'nykh Syr'ya*. ISSN 10295151, 2017-01-01, 2, pp. 137-141., Registrované v: SCOPUS
- ADCA307 KARÁCSONYI, Š. - KUNIÁK, Ľudovít. Polysaccharides of *Pleurotus ostreatus*: Isolation and structure of pleuran, an alkali-insoluble beta-D-glucan. In *Carbohydrate Polymers*, 1994, vol. 24, p. 107-111. ISSN 0144-8617.
Citácie:
1. [1.1] PISKA, Kamil - SULKOWSKA-ZIAJA, Katarzyna - MUSZYŃSKA, Bożena. EDIBLE MUSHROOM *Pleurotus ostreatus* (OYSTER MUSHROOM) ITS DIETARY SIGNIFICANCE AND BIOLOGICAL ACTIVITY. In *ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS*. ISSN 1644-0692, 2017, vol. 16, no. 1, pp. 151-161., Registrované v: WOS
2. [1.2] PASNIK, Jarosław - ŚLEMP, Agnieszka - CYWINSKA-BERNAS, Agnieszka - ZEMAN, Krzysztof - JESENÁK, Miłos. Preventive effect of pleuran (β -glucan from *Pleurotus ostreatus*) in children with recurrent respiratory tract infections Open-label prospective study. In *Current Pediatric Research*. ISSN 09719032, 2017-01-01, 21, 1, pp. 99-104., Registrované v: SCOPUS
- ADCA308 KARÁCSONYI, Š. - PÄTOPRSTÝ, Vladimír - KUBAČKOVÁ, M. Structural study on arabinogalactan-proteins from *Picea abies* L. Karst. In *Carbohydrate Research*, 1998, vol. 307, p. 271-279. (1.417 - IF1997). (1998 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.1] KORINEK, R. - MIKULKA, J. - HRIB, J. - HUDEC, J. - HAVEL, L. - BARTUSEK, K. Characterization of the Embryogenic Tissue of the Norway Spruce Including a Transition Layer between the Tissue and the Culture Medium by Magnetic Resonance Imaging. In *MEASUREMENT SCIENCE REVIEW*. ISSN 1335-8871, 2017, vol. 17, no. 1, pp. 19-26., Registrované v: WOS
2. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS
3. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS
- ADCA309 KARÁCSONYI, Štefan - TOMAN, Rudolf - JANEČEK, František - KUBAČKOVÁ, Marta. Polysaccharides from the bark of the white willow (*Salix alba* L.): Structure of an arabian. In *Carbohydrate Research*, 1975, vol. 44, p. 285-293. ISSN 0008-6215.
Citácie:
1. [1.2] TORRES, Ana I. - ASHRAF, Muhammad T. - CHATURVEDI, Tanmay - SCHMIDT, Jens Ejbye - STEPHANOPOULOS, George. Hydrothermal pretreatment: Process modeling and economic assessment within the framework of biorefinery processes. In *Hydrothermal Processing in Biorefineries: Production of Bioethanol and High Added-Value Compounds of Second and Third Generation Biomass*, 2017-06-01, pp. 207-235., Registrované v: SCOPUS
- ADCA310 KARDOŠOVÁ, Alžbeta - MACHOVÁ, Eva. Antioxidant activity of medicinal plant polysaccharides. In *Fitoterapia*, 2006, vol. 77, p. 367-373. ISSN 0367-326X.
Citácie:
1. [1.1] HAGHGOO, Roza - MEHRAN, Majid - AFSHARI, Elahe - ZADEH, Hamide Farajian - AHMADVAND, Motahare. Antibacterial effects of different concentrations of *Althaea officinalis* root extract versus 0.2% chlorhexidine and penicillin on *Streptococcus mutans* and *Lactobacillus* (in vitro). In *JOURNAL OF INTERNATIONAL SOCIETY OF PREVENTIVE AND COMMUNITY DENTISTRY*. ISSN 2231-0762, 2017, vol. 7, no. 4, pp. 180-185., Registrované v: WOS
2. [1.1] HEYDARIRAD, Ghazaleh - REZAEIZADEH, Hossein - CHOOPANI, Rasool - MOSAVAT,

Seyed Hamdollah - AMERI, Ahmad. Efficacy of a traditional Persian medicine preparation for radiation-induced xerostomia: a randomized, open-label, active-controlled trial. In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, 2017, vol. 15, no. 3, pp. 201-208.,

Registrované v: WOS

3. [1.1] LIU, Di - SUN, Qianwen - XU, Jing - LI, Na - LIN, Jianan - CHEN, Shan - LI, Fan. Purification, characterization, and bioactivities of a polysaccharide from mycelial fermentation of *Bjerkandera fumosa*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 167, no., pp. 115-122., Registrované v: WOS

4. [1.1] LUKOVA, P. K. - KARCHEVA-BAHCHEVANSKA, D. P. - NIKOLOVA, M. M. - ILIEV, Iliia N. - MLADENOV, R. D. Comparison of structure and antioxidant activity of polysaccharides extracted from the leaves of *Plantago major* L., *P. media* L. and *P. lanceolata* L. In BULGARIAN CHEMICAL COMMUNICATIONS. ISSN 0324-1130, 2017, vol. 49, no., pp. 282-288.,

Registrované v: WOS

5. [1.1] MOMBEINI, Tajmah - POURBADIE, Hamid Gholami - KAMALINEJAD, Mohammad - MAZLOUMI, Soroush - DEHPOUR, Ahmad Reza. Anxiolytic-Like and Sedative Effects of *Alcea Aucheri* (Boiss.) Alef. Flower Extract in the Laboratory Rat. In IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH. ISSN 1735-0328, 2017, vol. 16, no. 4, pp. 1495-1508.,

Registrované v: WOS

6. [1.1] REZAEIPOUR, Nasser - JAFARI, Farhad - REZAEIZADEH, Hossein - NASSERI, Mohsen - KAMALINEJAD, Mohammad - GHOBADI, Ali - SHAMSIPOUR, Mansour - ZARGARAN, Arman - AMERI, Ahmad. Efficacy of a Persian Medicine Herbal Compound (*Alcea digitata* Alef and *Malva sylvestris* L.) on Prevention of Radiation Induced Acute Mucositis in Patients with Head and Neck Cancer: A Pilot Study. In INTERNATIONAL JOURNAL OF CANCER MANAGEMENT. ISSN 2538-4422, 2017, vol. 10, no. 9, pp., Registrované v: WOS

7. [1.1] SHU, Guo-Wei - HE, Yun-Xia - LEI, Ni - CAO, Ji-Li - CHEN, He - CHEN, Li. Cellulase-Assisted Extraction of Polysaccharides from White Hyacinth Bean: Characterization of Antioxidant Activity and Promotion for Probiotics Proliferation. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 10, pp., Registrované v: WOS

8. [1.1] YUAN, Bo - YANG, Xu-qin - KOU, Meng - LU, Chang-yan - WANG, Yuan-yuan - PENG, Jun - CHEN, Ping - JIANG, Ji-hong. Selenylation of Polysaccharide from the Sweet Potato and Evaluation of Antioxidant, Antitumor, and Antidiabetic Activities. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 3, pp. 605-617., Registrované v: WOS

9. [1.1] ZHENG, Pimiao - FAN, Wentao - WANG, Shenghua - HAO, Pan - WANG, Yang - WAN, Huiyu - HAO, Zhihui - LIU, Jianzhu - ZHAO, Xiaona. Characterization of polysaccharides extracted from *Platycodon grandiflorus* (Jacq.) A.DC. affecting activation of chicken peritoneal macrophages. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 96, no., pp. 775-785., Registrované v: WOS

10. [1.2] ARAB, Atefeh - YAZDIAN-ROBATI, Rezvan - REZAEI-SERESHT, Hasan - EHTESHAM-GHARAEI, Melika - SOLTANI, Fatemeh. Evaluation of neuroprotective effect of *althaea officinalis* flower aqueous and methanolic extracts against H₂O₂-induced oxidative stress in PC12 cells. In Iranian Journal of Pharmaceutical Sciences. ISSN 17352444, 2017-12-01, 13, 1, pp. 49-56., Registrované v: SCOPUS

11. [1.2] LIU, Di - SUN, Qianwen - XU, Jing - LI, Na - LIN, Jianan - CHEN, Shan - LI, Fan. Purification, characterization, and bioactivities of a polysaccharide from mycelial fermentation of *Bjerkandera fumosa*. In Carbohydrate Polymers. ISSN 01448617, 2017-07-01, 167, pp. 115-122., Registrované v: SCOPUS

ADCA311

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. (1.417 - IF1997). (1998 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] KAUSHIK, Pratibha - DOWLING, Kim - ADHIKARI, Raju - BARROW, Colin J. - ADHIKARI, Benu. Effect of extraction temperature on composition, structure and functional properties of flaxseed gum. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 215, no., pp. 333-340., Registrované v: WOS

2. [1.1] PEREIRA, Caroline S. - SILVEIRA, Rodrigo L. - DUPREE, Paul - SKAF, Munir S. Effects of Xylan Side-Chain Substitutions on Xylan-Cellulose Interactions and Implications for Thermal Pretreatment of Cellulosic Biomass. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 4, pp. 1311-1321., Registrované v: WOS

3. [1.2] Les, D. H. (2017). In Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics (CRC Press, pp. 1-1334), Registrované v: SCOPUS

ADCA312

KARDOŠOVÁ, Alžbeta - MALOVÍKOVÁ, Anna - PÄTOPRSTÝ, Vladimír - NOSÁLOVÁ, G. - MATÁKOVÁ, T. Structural characterization and antitussive activity of a glucuronoxylan from

Mahonia aquifolium (Pursh) Nutt. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2002, vol. 47, p. 27-33. (1.203 - IF2001). (2002 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] BOUAZIZ, Fatma - KOUBAA, Mohamed - GHORBEL, Rhoudha Ellouz - CHAABOUNI, Semia Ellouz. Biological properties of water-soluble polysaccharides and hemicelluloses from almond gum. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 667-674., Registrované v: WOS
2. [1.1] KUMAR, Pradeep - KUMAR, Vineet. Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from *Vitex negundo* Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS
3. [1.1] LAKHERA, Ajeet Kumar - KUMAR, Vineet. Monosaccharide composition of acidic gum exudates from Indian *Acacia tortilis* ssp *raddiana* (Savi) Brenan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 45-50., Registrované v: WOS
4. [1.1] OCH, Anna - SZEWCZYK, Katarzyna - PECIO, Lukasz - STOCHMAL, Anna - ZALUSKI, Daniel - BOGUCKA-KOCKA, Anna. UPLC-MS/MS Profile of Alkaloids with Cytotoxic Properties of Selected Medicinal Plants of the Berberidaceae and Papaveraceae Families. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS
5. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of *Dendrobium officinale* and anti-angiogenesis activities of its sulfated derivative. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS

ADCA313 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁĽOVÁ, G. - FRAŇOVÁ, S. - HRÍBALOVÁ, 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.

Citácie:

1. [1.1] HERNANDEZ-ALMANZA, Ayerim - MUNIZ-MARQUEZ, Diana B. - DE LA ROSA, Orlando - NAVARRO, Victor - MARTINEZ-MEDINA, Gloria - RODRIGUEZ-HERRERA, Raul - AGUILAR, Cristobal N. Microbial Production of Bioactive Pigments, Oligosaccharides, and Peptides. In FOOD BIOSYNTHESIS, VOL 1, 2017, vol., no., pp. 95-134., Registrované v: WOS
2. [1.2] PETKOVA, Nadezhda - IVANOVA, Lili - FILOVA, Gerasima - IVANOV, Ivan - DENEV, Panteley. Antioxidants and carbohydrate content in infusions and microwave extracts from eight medicinal plants. In Journal of Applied Pharmaceutical Science, 2017-10-01, 7, 10, pp. 55-61., Registrované v: SCOPUS

ADCA314 KARDOŠOVÁ, Alžbeta - EBRINGEROVÁ, Anna - ALFOLDI, Juraj - NOSÁĽOVÁ, G. - MATÁKOVÁ, T. - HRÍBALOVÁ, 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. (1.597 - IF2003). (2004 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] OCH, Anna - SZEWCZYK, Katarzyna - PECIO, Lukasz - STOCHMAL, Anna - ZALUSKI, Daniel - BOGUCKA-KOCKA, Anna. UPLC-MS/MS Profile of Alkaloids with Cytotoxic Properties of Selected Medicinal Plants of the Berberidaceae and Papaveraceae Families. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS

ADCA315 KARELIN, A.A. - TSVETKOV, Yu. E. - KOGAN, Grigorij - BYSTRICKÝ, Slavomír - NIFANTIEV, N.E. Synthesis of oligosaccharide fragments of mannan from *Candida albicans* cell wall and their BSA conjugates. In Russian Journal of Bioorganic Chemistry, 2007, vol. 33, p. 110-1212.

Citácie:

1. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS

ADCA316 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. (2.025 - IF2009). (2010 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS
- ADCA317 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. (1.960 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215.
Citácie:
1. [1.1] KOVAC, Pavol - XU, Peng. Controlled and highly efficient preparation of carbohydrate-based vaccines: squaric acid chemistry is the way to go. In CARBOHYDRATE CHEMISTRY, VOL 42. ISSN 2041-353X, 2017, vol. 42, no., pp. 83-115., Registrované v: WOS
- ADCA318 KARELIN, Alexander A. - TSVETKOV, Yury E. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - NIFANTIEV, Nikolay E. A blockwise approach to the synthesis of (1→2)-linked oligosaccharides corresponding to fragments of the acid-stable β-mannan from the *Candida albicans* cell wall. In European Journal of Organic Chemistry, 2016, vol. 2016, p. 1173-1181. (3.068 - IF2015). (2016 - Current Contents). ISSN 1434-193X.
Citácie:
1. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In RUSSIAN CHEMICAL BULLETIN. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS
- ADCA319 KARNÍŠOVÁ, Elena, Potocká - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Enzymatic synthesis of tyrosol glycosides. In Journal of Molecular Catalysis B - Enzymatic, 2015, vol. 113, p. 23-28. (2.128 - IF2014). (2015 - Current Contents). ISSN 1381-1177.
Citácie:
1. [1.1] FAN, Bo - CHEN, Tianyi - ZHANG, Sen - WU, Bin - HE, Bingfang. Mining of efficient microbial UDP-glycosyltransferases by motif evolution cross plant kingdom for application in biosynthesis of salidroside. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] QI, Tingting - GU, Guofeng - XU, Li - XIAO, Min - LU, Lili. Efficient synthesis of tyrosol galactosides by the beta-galactosidase from *Enterobacter cloacae* B5. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 12, pp. 4995-5003., Registrované v: WOS
- ADCA320 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. (0.488 - IF2000). ISSN 0236-5731.
Citácie:
1. [1.1] NYGREN, U. - HEDMAN, A. - NYLEN, T. - THORS, L. Rapid breakthrough of I-131 in an in vitro human epidermis model. In TOXICOLOGY IN VITRO. ISSN 0887-2333, 2017, vol. 42, p. 287-291., Registrované v: WOS
- ADCA321 KATAPODIS, P. - VRŠANSKÁ, Mária - KEKOS, D. - NERINCKX, W. - BIELY, Peter - CLAEYSSSENS, 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. (1.631 - IF2002). (2003 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. Industrial Enzymes: Xylanases. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 127-148., Registrované v: WOS
- ADCA322 KATRLÍK, Jaroslav - MASTIHUBA, Vladimír - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana, Blahutová - 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. ISSN 0003-2670.
Citácie:
1. [1.1] JAVIER AREVALO, Fernando - OSUNA-SANCHEZ, Yolanda - SANDOVAL-CORTES, Jose - DI TOCCO, Aylen - MARCELO GRANERO, Adrian - NOEL ROBLEDO, Sebastian - ALICIA ZON, Maria - ROBERTO VETTORAZZI, Nelio - LUIS MARTINEZ, Jose - PATRICIA SEGURA, Elda - ILINA, Anna - FERNANDEZ, Hector. Development of an electrochemical sensor for the determination of glycerol based on glassy carbon electrodes modified with a copper oxide nanoparticles/multiwalled carbon nanotubes/pectin composite. In SENSORS AND ACTUATORS

- B-CHEMICAL. ISSN 0925-4005, 2017, vol. 244, no., pp. 949-957., Registrované v: WOS*
2. [1.1] MAHADEVAN, Aishwarya - FERNANDO, Sandun. An improved glycerol biosensor with an Au-FeS-NAD-glycerol-dehydrogenase anode. In *BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 92, no., pp. 417-424., Registrované v: WOS*
3. [1.1] TANAKA, Sohei - DOHI, Takumi - AIZAWA, Sen-ichi - KEMMEI, Tomoko - TERASHIMA, Hiroyuki - TAGA, Atsushi - YAMAMOTO, Atsushi - KODAMA, Shuji. Simultaneous determination of alcohols including diols and triols by HPLC with ultraviolet detection based on the formation of a copper(II) complex. In *JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 21, pp. 4168-4175., Registrované v: WOS*

ADCA323

KATRLÍK, Jaroslav - VOŠTIAR, I. - ŠEFČOVIČOVÁ, Jana, Blahutová - TKÁČ, Ján - MASTIHUBA, Vladimír - VALACH, M. - ŠTEFUCA, V. - GEMEINER, Peter. A novel microbial biosensor based on cells of *Gluconobacter oxydans* for the selective determination of 1,3-propanediol in the presence of glycerol and its application to bioprocess monitoring. In *Analytical and Bioanalytical Chemistry*, 2007, vol. 338, p.287-295. ISSN 1618-2642.

Citácie:

1. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in *Gluconobacter oxydans* Based Microbial Fuel Cell. In *ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS*
2. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS*
3. [1.1] VITORINO, Luciana C. - BESSA, Layara A. Technological Microbiology: Development and Applications. In *FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS*

ADCA324

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. (8.656 - IF2009). (2010 - Current Contents, WOS, SCOPUS). ISSN 0198-6325.

Citácie:

1. [1.1] BRITO, Jessica de Santana - SALLES FERREIRA, Gustavo Ramos - KLIMCZAK, Emeline - GRYSHUK, Liliya - DE LIMA SANTOS, Nataly Diniz - DE SIQUEIRA PATRIOTA, Leydianne Leite - MOREIRA, Leyllane Rafael - ARAUJO SOARES, Ana Karine - BARBOZA, Bruno Rafael - GUEDES PAIVA, Patricia Maria - DO AMARAL FERRAZ NAVARRO, Daniela Maria - BARROS DE LORENA, Virginia Maria - LAGOS DE MELO, Cristiane Moutinho - CORIOLANO, Marilia Cavalcanti - NAPOLEAO, Thiago Henrique. Lectin from inflorescences of ornamental crop *Alpinia purpurata* acts on immune cells to promote Th1 and Th17 responses, nitric oxide release, and lymphocyte activation. In *BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2017, vol. 94, no., pp. 865-872., Registrované v: WOS*
2. [1.1] DE SIQUEIRA PATRIOTA, Leydianne Leite - PROCOPIO, Thamara Figueiredo - BRITO, Jessica de Santana - SEBAG, Virginie - SILVA DE OLIVEIRA, Ana Patricia - DE ARAUJO SOARES, Ana Karine - MOREIRA, Leyllane Rafael - LIMA, Thamarah de Albuquerque - SOARES, Tatiana - DA SILVA, Tulio Diego - GUEDES PAIVA, Patricia Maria - BARROS DE LORENA, Virginia Maria - LAGOS DE MELO, Cristiane Moutinho - DE ALBUQUERQUE, Lidiane Pereira - NAPOLEAO, Thiago Henrique. Microgramma vacciniifolia (Polypodiaceae) fronds contain a multifunctional lectin with immunomodulatory properties on human cells. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 103, no., pp. 36-46., Registrované v: WOS*
3. [1.1] PALECEK, Emil - DORCAK, Vlastimil. Label-free electrochemical analysis of biomacromolecules. In *APPLIED MATERIALS TODAY. ISSN 2352-9407, 2017, vol. 9, no., pp. 434-450., Registrované v: WOS*
4. [1.2] GRAY, Christopher - FLITSCH, Sabine L. Methods for the high resolution analysis of glycoconjugates. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences, 2017-11-20, pp. 225-267., Registrované v: SCOPUS*

ADCA325

KATRLÍK, Jaroslav - ŠKRABANA, Rostislav - MISLOVIČOVÁ, Danica - GEMEINER, Peter. Binding of D-mannose-containing glycoproteins to D-mannose-specific lectins studied by surface plasmon resonance. In *Colloids and Surfaces A : Physicochem. Eng. Aspects*, 2011, vol. 382, p. 198-202. (2.130 - IF2010). (2011 - Current Contents). ISSN 0927-7757.

Citácie:

1. [1.1] ZHENG, Haijiao - SONG, Naizhong - LI, Xiqian - JIA, Qiong. Anchoring beta-cyclodextrin modified lysine to polymer monolith with biotin: specific capture of plasminogen. In

- ANALYST. ISSN 0003-2654, 2017, vol. 142, no. 24, pp. 4773-4781., Registrované v: WOS
2. [1.2] YU, Kai - KIZHAKKEDATHU, Jayachandran N. Glycopolymer Brushes Presenting Sugars in Their Natural Form: Synthesis and Applications. In *Polymer and Biopolymer Brushes: For Materials Science and Biotechnology*, 2017-12-14, pp. 333-359., Registrované v: SCOPUS
- ADCA326 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.
- Citácie:
1. [1.1] LUNDAHL, Mimmi L. E. - SCANLAN, Eoin M. - LAVELLE, Ed C. Therapeutic potential of carbohydrates as regulators of macrophage activation. In *BIOCHEMICAL PHARMACOLOGY*. ISSN 0006-2952, 2017, vol. 146, no., pp. 23-41., Registrované v: WOS
2. [1.1] VAN DIE, Irma - CUMMINGS, Richard D. The Mannose Receptor in Regulation of Helminth-Mediated Host immunity. In *FRONTIERS IN IMMUNOLOGY*. ISSN 1664-3224, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] VERBIJ, Fabian C. - SORVILLO, Nicoletta - KAIJEN, Paul H. P. - HRDINOVA, Johana - PEYRON, Ivan - FIJNHEER, Rob - TEN BRINKE, Anja - MELJER, Alexander B. - VAN ALPHEN, Floris P. J. - VAN DEN BERG, Timo K. - GRAVERSEN, Jonas J. H. - MOESTRUP, Soren K. - VOORBERG, Jan. The class I scavenger receptor CD163 promotes internalization of ADAMTS13 by macrophages. In *BLOOD ADVANCES*. ISSN 2473-9529, 2017, vol. 1, no. 5, pp. 293-305., Registrované v: WOS
- ADCA327 KHALIKOVA, T.A. - ZHANAIEVA, S.Ya - KOROLENKO, T.A. - KALEDIN, V.I. - KOGAN, Grigorij. Regulation of activity of cathepsins B, L., and D in murine lymphosarcoma model at a combined treatment with cyclophosphamide and yeast polysaccharide. In *Cancer Letters*, 2005, vol. 223, p. 77-83. ISSN 0304-3835.
- Citácie:
1. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Padraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS
- ADCA328 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.
- Citácie:
1. [1.1] BADAUI, Bouabid - FOUGEROUX, Andre - PETIT, Fabien - ANSELMO, Anna - GORNI, Chiara - CUCURACHI, Marco - CERSINI, Antonella - GRANATO, Anna - CARDETI, Giusy - FORMATO, Giovanni - MUTINELLI, Franco - GIUFFRÀ, Elisabetta - WILLIAMS, John L. - BOTTI, Sara. RNA-sequence analysis of gene expression from honeybees (*Apis mellifera*) infected with *Nosema ceranae*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 3, pp., Registrované v: WOS
2. [1.1] FRANZOI, Marco - STURLESE, Mattia - BELLANDA, Massimo - MAMMI, Stefano. A molecular dynamics strategy for CS peptides disulfide-assisted model refinement. In *JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS*. ISSN 0739-1102, 2017, vol. 35, no. 12, pp. 2736-2744., Registrované v: WOS
3. [1.1] Group Author(s): Uniprot Consortium. P17722. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P17722>, Registrované v: WOS
4. [1.1] Group Author(s): Uniprot Consortium. Q5J8R1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5J8R1>, Registrované v: WOS
5. [1.1] Group Author(s): Uniprot Consortium. Q5MQL3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5MQL3>, Registrované v: WOS
- ADCA329 KLAUDINY, Jaroslav - VON DER KAMMER, H. - SCHEIT, K.H. Characterization by cDNA cloning of the mRNA of a highly basic human protein homologous to the yeast ribosomal protein YL41. In *Biochemical and biophysical research communications*, 1992, vol. 187, p. 462-490. ISSN 0006-291X.
- Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. P62945. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P62945>, Registrované v: WOS
- ADCA330 KLAUDINY, Jaroslav - HANES, J. - KULIFAJOVA, J. - ALBERT, Š. - ŠIMÚTH, Jozef. Molecular cloning of two cDNAs from the head of the nurse honey bee (*Apis mellifera* L.) for coding related proteins of royal jelly. In *Journal of Apicultural Research*, 1994, vol. 33, p. 105-111. ISSN 0021-8839.
- Citácie:
1. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele

- CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In *ONCOLOGY REPORTS*. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. Q17060. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: WOS
3. [1.1] Group Author(s): Uniprot Consortium. Q17061. In:., Registrované v: WOS
- ADCA331 KLAUDINY, Jaroslav - KULIFAJOVA, J. - CRAILSHEIM, K. - ŠIMÚTH, Jozef. New approach to the study of division of labour in the honeybee colony (*Apis mellifera* L.). In *Apidologie*, 1994, vol. 25, p. 596-600. ISSN 0044-8435.
- Citácie:
1. [1.1] ALI, Hussain - ALQARNI, Abdulaziz S. - OWAYSS, Ayman A. - HASSAN, Awad M. - SMITH, Brian H. Osmotic concentration in three races of honey bee, *Apis mellifera* L. under environmental conditions of arid zone. In *SAUDI JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1319-562X, 2017, vol. 24, no. 5, pp. 1081-1085., Registrované v: WOS
- ADCA332 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. (3.594 - IF2016). (2017 - Current Contents). ISSN 0263-4929.
- Citácie:
1. [1.1] KEPLER, Ruth - BEHRMANN, Jan H. - STIPP, Michael. Textures of eclogites and blueschists from Syros island, Greece: Inferences for elastic anisotropy of subducted oceanic crust. In *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*. ISSN 2169-9313, 2017, vol. 122, no. 7, pp. 5306-5324., Registrované v: WOS
- ADCA333 KLUG-SANTNER, B.G. - SCHNITZHOFFER, W. - VRŠANSKÁ, Mária - WEBER, J. - AGRAWAL, P.B. - NIERSTRASZ, V.A. - GUEBITZ, G.M. Purification and characterization of a new bioscouring pectate lyase from *Bacillus pumilus* BK2. In *Journal of Biotechnology*, 2006, vol. 121, p. 390-401. ISSN 0168-1656.
- Citácie:
1. [1.1] AMIN, Faiza - BHATTI, Haq Nawaz - BILAL, Muhammad - ASGHER, Muhammad. Purification, Kinetic, and Thermodynamic Characteristics of an Exo-polygalacturonase from *Penicillium notatum* with Industrial Perspective. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 426-443., Registrované v: WOS
2. [1.1] CHAKRABORTY, S. - RANI, A. - DHILLON, A. - GOYAL, A. Polysaccharide Lyases. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS*, 2017, vol., no., pp. 527-539., Registrované v: WOS
3. [1.1] CHENG, Lifeng - DUAN, Shengwen - FENG, Xiangyuan - ZHENG, Ke - LIU, Zhengchu - PENG, Yuande. Two Novel Thermal Stable Pectate Lyases from *Dickeya dadantii* DCE-01: Cloning, Expression and Characterization. In *NANOSCIENCE AND NANOTECHNOLOGY LETTERS*. ISSN 1941-4900, 2017, vol. 9, no. 11, pp. 1767-1774., Registrované v: WOS
4. [1.1] LIU, Xiuyu - JIANG, Yan - XIE, Qiuxia - NIE, Shuangxi - SONG, Xueping. Effect of Alkali Pectinase Pretreatment on Bagasse Soda-Anthraquinone Pulp. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5045-5056., Registrované v: WOS
5. [1.1] MARYANI, Cocok Ana B. - FAHRURROZI - MERYANDINI, Anja. PECTINASE PRODUCTION AND CLARIFICATION TREATMENTS OF APPLE (*MALUS DOMESTICA*) JUICE. In *ANNALES BOGORIENSES-JOURNAL OF TROPICAL GENERAL BOTANY*. ISSN 0517-8452, 2017, vol. 21, no. 2, pp. 63-68., Registrované v: WOS
6. [1.1] RAN, GanQiao - TAN, Dan - DAI, WeiEr - ZHU, XinLiang - ZHAO, JiPing - MA, Qi - LU, XiaoYun. Immobilization of alkaline polygalacturonate lyase from *Bacillus subtilis* on the surface of bacterial polyhydroxyalkanoate nano-granules. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3247-3258., Registrované v: WOS
7. [1.1] VANKAR, Padma S. - SHUKLA, Dhara - WIJAYAPALA, Samudrika - SAMANTA, Asish Kumar. Innovative silk dyeing using enzyme and *Rubia cordifolia* extract at room temperature. In *PIGMENT & RESIN TECHNOLOGY*. ISSN 0369-9420, 2017, vol. 46, no. 4, pp. 296-302., Registrované v: WOS
8. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Characterization and overproduction of a thermo-alkaline pectate lyase from alkaliphilic *Bacillus licheniformis* with potential in ramie degumming. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 54, no., pp. 49-58., Registrované v: WOS
9. [1.1] ZHOU, Cheng - XUE, Yanfen - MA, Yanhe. Cloning, evaluation, and high-level expression of a thermo-alkaline pectate lyase from alkaliphilic *Bacillus clausii* with potential in ramie degumming. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017,

vol. 101, no. 9, pp. 3663-3676., Registrované v: WOS

10. [1.1] ZHOU, Man - WU, Jingli - WANG, Tao - GAO, Lina - YIN, Huijun - LU, Xin. The purification and characterization of a novel alkali-stable pectate lyase produced by *Bacillus subtilis* PB1. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 10, pp., Registrované v: WOS

11. [1.1] ZHOU, Zhanping - LIU, Yang - CHANG, Zhenying - WANG, Huilin - LEIER, Andre - MARQUEZ-LAGO, Tatiana T. - MA, Yanhe - LI, Jian - SONG, Jiangning. Structure-based engineering of a pectate lyase with improved specific activity for ramie degumming. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 7, pp. 2919-2929., Registrované v: WOS

12. [1.2] GUNDALA, Prasada Babu - CHINTHALA, Paramageetham. Extremophilic pectinases. In *Extremophilic Enzymatic Processing of Lignocellulosic Feedstocks to Bioenergy*, 2017-06-23, pp. 155-180., Registrované v: SCOPUS

13. [1.2] LARAS, Galih Ayhusta - HANDAYANI, Mimin Nur - YAMANI, Laura Navika - PURWANI, Ni Nyoman - PURKAN - PUSPANINGSIH, Ni Nyoman Tri. Identification and characterization of thermophilic and pectinolytic bacteria isolated from gunung pancar hot spring bogor, Indonesia. In *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. ISSN 09723005, 2017-01-01, 19, 3, pp. 496-508., Registrované v: SCOPUS

14. [1.2] POLIZELI, Mariade Lourdes Teixeira de Moraes - DE LIMA DAMÁSIO, André Ricardo - MALLER, Alexandre - CABRAL, Hamilton - POLIZELI, Aline Moraes - RAI, Mahendra. Pectinases produced by microorganisms: Properties and applications. In *Fungal Enzymes*, 2016-04-19, pp. 316-340., Registrované v: SCOPUS

ADCA334 KOGAN, Grigorij - ŠANDULA, Jozef - KOROLENKO, T.A. - FALAMEEVA, O.V. - POTERYAEVA, O.N. - ZHANAEVA, S.Ya. - LEVINA, O.A. - FILATOVA, T.G. - KALEDIN, V.I. Increased efficiency of Lewis lung carcinoma chemotherapy with a macrophage stimulator - yeast carboxymethyl glucan. In *International Immunopharmacology*, 2002, vol. 2, p. 775-781. ISSN 1567-5769.

Citácie:

1. [1.1] ABOU ZIED, Alaa M. - ABD EL-ZAHER, Eman H. F. - IBRAHIM, H. A. H. - HAMMAD, Toka A. Exopolysaccharides Production and Characterization from Marine-Derived *Penicillium commune* KP942881.1 with Some Medical Potential Applications. In *EGYPTIAN JOURNAL OF BOTANY*. ISSN 0375-9237, 2017, vol. 57, no., pp. 17-30., Registrované v: WOS

2. [1.1] ROUDI, Raheleh - MOHAMMADI, Shahla Roudbar - ROUDBARY, Maryam - MOHSENZADEGAN, Monireh. Lung cancer and beta-glucans: review of potential therapeutic applications. In *INVESTIGATIONAL NEW DRUGS*. ISSN 0167-6997, 2017, vol. 35, no. 4, pp. 509-517., Registrované v: WOS

ADCA335 KOGAN, Grigorij - UHRÍN, D. - BRISSON, J.R. - JENNIGS, H.J. Structural basis of the *Neisseria meningitidis* immunotypes including the L4 and L7 immunotypes. In *Carbohydrate Research*, 1997, vol. 298, p. 191-199. (1997 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] MUBAIWA, Tsitsi D. - SEMCHENKO, Evgeny A. - HARTLEY-TASSELL, Lauren E. - DAY, Christopher J. - JENNINGS, Michael P. - SEIB, Kate L. The sweet side of the pathogenic *Neisseria*: the role of glycan interactions in colonisation and disease. In *PATHOGENS AND DISEASE*. ISSN 2049-632X, 2017, vol. 75, no. 5, pp., Registrované v: WOS

ADCA336 KOGAN, Grigorij - KOCHER, A. Role of yeast cell wall polysaccharides in pig nutrition and health protection. In *Livestock Science*, 2007, vol. 109, p. 161-165. ISSN 1871-1413.

Citácie:

1. [1.1] BOUWHUIS, M. A. - SWEENEY, T. - MUKHOPADHYA, A. - THORNTON, K. - MCALPINE, P. O. - O'DOHERTY, J. V. Zinc methionine and laminarin have growth-enhancing properties in newly weaned pigs influencing both intestinal health and diarrhoea occurrence. In *JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION*. ISSN 0931-2439, 2017, vol. 101, no. 6, pp. 1273-1285., Registrované v: WOS

2. [1.1] DOGI, C. - CRISTOFOLINI, A. - GONZALEZ PEREYRA, M. L. - GARCIA, G. - FOCESATO, A. - MERKIS, C. - DALCERO, A. M. - CAVAGLIERI, L. R. Aflatoxins and *Saccharomyces cerevisiae*: yeast modulates the intestinal effect of aflatoxins, while aflatoxin B-1 influences yeast ultrastructure. In *WORLD MYCOTOXIN JOURNAL*. ISSN 1875-0710, 2017, vol. 10, no. 2, pp. 171-181., Registrované v: WOS

3. [1.1] El-Dinn, Maysoun M. Mohie; Abdel-Aal, Ehab S.; Eid, Laila N.; Farid, Alyaa A.; Aly, Ibrahim R.; El-Deeb, Somaya O. IMPACT OF USING YEAST AS FEED ADDITIVE ON PRODUCTION PERFORMANCE AND IMMUNE RESPONSES OF SHE-CAMELS AND THEIR NEWBORN CALVES DURING PERI-PARTURATION PERIOD. In: *JOURNAL OF THE EGYPTIAN SOCIETY OF PARASITOLOGY* Vol. 47 (2017), Issue: 3 p. 607-616, Registrované v: WOS

4. [1.1] JIN, Linghong - WANG, Wei - DEGROOTE, Jeroen - VAN NOTEN, Noemie - YAN, Honglin - MAJDEDDIN, Maryam - VAN POUCKE, Mario - PEELMAN, Luc - GODERIS, Anne - VAN DE MIEROP, Kurt - MOMBAERTS, Ronny - DE SMET, Stefaan - MICHELIS, Joris. Mycotoxin binder improves growth rate in piglets associated with reduction of toll-like receptor-4 and increase of tight junction protein gene expression in gut mucosa. In *JOURNAL OF ANIMAL SCIENCE AND BIOTECHNOLOGY*. ISSN 2049-1891, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
6. [1.1] LIU, Gang - YU, Lei - MARTINEZ, Yordan - REN, Wenkai - NI, Hengjia - AL-DHABI, Naif Abdullah - DURAIANDIYAN, Veeramuthu - YIN, Yulong. Dietary *Saccharomyces cerevisiae* Cell Wall Extract Supplementation Alleviates Oxidative Stress and Modulates Serum Amino Acids Profiles in Weaned Piglets. In *OXIDATIVE MEDICINE AND CELLULAR LONGEVITY*. ISSN 1942-0900, 2017, vol., no., pp., Registrované v: WOS
7. [1.1] O'DOHERTY, J. V. - BOUWHUIS, M. A. - SWEENEY, T. Novel marine polysaccharides and maternal nutrition to stimulate gut health and performance in post-weaned pigs. In *ANIMAL PRODUCTION SCIENCE*. ISSN 1836-0939, 2017, vol. 57, no. 12, pp. 2376-2385., Registrované v: WOS
8. [1.1] SILVA, Viviam de Oliveira - PEREIRA, Luciano Jose - MURATA, Ramiro Mendonca. Oral microbe-host interactions: influence of beta-glucans on gene expression of inflammatory cytokines and metabolome profile. In *BMC MICROBIOLOGY*. ISSN 1471-2180, 2017, vol. 17, no., pp., Registrované v: WOS
9. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying - ZHOU, Lu - HUANG, Shiqi - LI, Hui. The antioxidant activities of six (1> 3)-beta-D-glucan derivatives prepared from yeast cell wall. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS
10. [1.1] VALPOTIC, Hrvoje - BARIC-RAFAR, Renata - MRLJAK, Vladimir - GRABAREVIC, Zeljko - SAMARDZIJA, Marko - SPERANDA, Marcela - ZAJA, Ivona Zura - DURICIC, Drazen - BACH, Ana - HARAPIN, Ivica - FOLNOZIC, Ivan - VINCE, Silvijo - VALPOTIC, Ivica. Influence of dietary mannan oligosaccharide and clinoptilolite on hematological, biochemical and gut histological parameters in weaned pigs. In *PERIODICUM BIOLOGORUM*. ISSN 0031-5362, 2017, vol. 119, no. 1, pp. 63-73., Registrované v: WOS
11. [1.1] WAITITU, S. M. - YIN, F. - PATTERSON, R. - YITBAREKA, A. - RODRIGUEZ-LECOMTE, J. C. - NYACHOTI, C. M. Dietary supplementation with a nucleotide-rich yeast extract modulates gut immune response and microflora in weaned pigs in response to a sanitary challenge. In *ANIMAL*. ISSN 1751-7311, 2017, vol. 11, no. 12, pp. 2156-2164., Registrované v: WOS
12. [1.1] ZHAO, Wen - LIANG, Miao - WEI, Jie - WANG, Shan. Effects of Dietary Yeast Polysaccharides on the Immune Responses of *Apostichopus japonicus* to a Sudden Drop in Temperature. In *JOURNAL OF THE WORLD AQUACULTURE SOCIETY*. ISSN 0893-8849, 2017, vol. 48, no. 4, pp. 656-665., Registrované v: WOS
13. [1.2] SAEED, Muhammad - AHMAD, Fawwad - ARAIN, Muhammad Asif - ABD EL-HACK, Mohamed E. - EMAM, Mohamed - BHUTTO, Zohaib Ahmed - MOSHAVERI, Arman. Use of Mannan-oligosaccharides (MOS) as a feed additive in poultry nutrition. In *Journal of World's Poultry Research*, 2017-09-25, 7, 3, pp. 94-103., Registrované v: SCOPUS
14. [1.2] XU, Xiaoqing - QIAO, Yu - PENG, Qing - GAO, Long - SHI, Bo. Inhibitory effects of YCW and MOS from *Saccharomyces cerevisiae* on *Escherichia coli* and *Salmonella pullorum* adhesion to Caco-2 cells. In *Frontiers in Biology*. ISSN 16747984, 2017-10-01, 12, 5, pp. 370-375., Registrované v: SCOPUS

ADCA337 KOGAN, Grigorij - JANN, B. - JANN, K. Structure of the *Escherichia coli* 0104 polysaccharide and its identity with the capsular K9 polysaccharide. In *FEMS Microbiology Letters*, 1992, vol. 91, p. 135-140. (1992 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In *Bioactive Polysaccharides* (Elsevier, pp. 1-554, Registrované v: SCOPUS

ADCA338 KOGAN, Grigorij - PAVLIAK, V. - MASLER, Ladislav. Structural studies of mannans from the cell walls of the pathogenic yeasts *Candida albicans* serotype A and B, and *Candida parapsilosis*. In *Carbohydrate Research*, 1988, vol. 172, p. 243-253. ISSN 0008-6215.

Citácie:

1. [1.1] TE RIET, Joost - JOOSTEN, Ben - REINIEREN-BEEREN, Inge - FIGDOR, Carl G. - CAMBI, Alessandra. N-glycan mediated adhesion strengthening during pathogen-receptor binding revealed by cell-cell force spectroscopy. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol.

- 7, no., pp., Registrované v: WOS
- ADCA339 KOGAN, Grigorij - MATULOVÁ, Mária - MICHALKOVÁ, E. Extracellular polysaccharides of *Penicillium vermiculatum*. In *Zeitschrift fur Naturforschung C*, 2002, vol. 57c, p. 452-458.
- Citácie:
1. [1.2] AL-MANHEL, Alaa Jabbar Abd. Production of exopolysaccharide from local fungal isolate. In *Current Research in Nutrition and Food Science*. ISSN 2347467X, 2017-12-01, 5, 3, pp. 338-346., Registrované v: SCOPUS
- ADCA340 KOGAN, Grigorij - SKORIK, Y. A. - ŽITŇANOVÁ, Ingrid - KRIŽKOVÁ, L. - ĎURAČKOVÁ, Zdenka - GOMEZ, C.A.R. - YATLUK, Y.G. - KRAJČOVIČ, J. Antioxidant and antimutagenic activity of N-(2-carboxyethyl) chitosan. In *Toxicology and applied pharmacology*, 2004, vol. 201, p. 303-310.
- Citácie:
1. [1.1] AHMAD, Mudasir - MANZOOR, Kaiser - IKRAM, Saiqa. Versatile nature of hetero-chitosan based derivatives as biodegradable adsorbent for heavy metal ions; a review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 190-203., Registrované v: WOS
2. [1.1] CHIU, Hui-Fang - HUANG, Shin-Ru - LU, Yan-Ying - HAN, Yi-Chun - SHEN, You-Cheng - VENKATAKRISHNAN, Kamesh - WANG, Chin-Kun. Antimutagenicity, antibacteria, and water holding capacity of chitosan from *Luffa aegyptiaca* Mill and *Cucumis sativus* L. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2017, vol. 41, no. 3, pp., Registrované v: WOS
3. [1.1] SAHARIAH, Priyanka - MASSON, Mar. Antimicrobial Chitosan and Chitosan Derivatives: A Review of the Structure-Activity Relationship. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 11, pp. 3846-3868., Registrované v: WOS
4. [1.1] SHEN, Juan - JIN, Bo - QI, Yong-cheng - JIANG, Qi-ying - GAO, Xue-feng. Carboxylated chitosan/silver-hydroxyapatite hybrid microspheres with improved antibacterial activity and cytocompatibility. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2017, vol. 78, no., pp. 589-597., Registrované v: WOS
5. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA, Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In *SECONDARY ENDOSYMBIOSES*. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS
- ADCA341 KOGAN, Grigorij - PAJTINKA, Martin - BABINCOVÁ, M. - MIADOKOVÁ, Eva - RAUKO, Peter - SLAMENOVÁ, Darina - KOROLENKO, T.A. Yeast cell wall polysaccharides as antioxidants and antimutagens: Can they fight cancer? In *Neoplasma*, 2008, vol. 55, p. 387-393. (1.208 - IF2007). (2008 - Current Contents). ISSN 0028-2685.
- Citácie:
1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
2. [1.1] GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast *Kluyveromyces marxianus*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS
3. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
4. [1.1] MOKHTARI, Samira - JAFARI, Seid Mandi - KHOMEIRI, Morteza - MAGHSOUDLOU, Yahya - GHORBANI, Mohammad. The cell wall compound of *Saccharomyces cerevisiae* as a novel wall material for encapsulation of probiotics. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2017, vol. 96, no., pp. 19-26., Registrované v: WOS
5. [1.1] OGNIK, Katarzyna - KRAUZE, Magdalena - CHOLEWINSKA, Ewelina - ABRAMOWICZ, Katarzyna. THE EFFECT OF A PROBIOTIC CONTAINING ENTEROCOCCUS FAECIUM DSM 7134 ON REDOX AND BIOCHEMICAL PARAMETERS IN CHICKEN BLOOD. In *ANNALS OF ANIMAL SCIENCE*. ISSN 2300-8733, 2017, vol. 17, no. 4, pp. 1075-1088., Registrované v: WOS
6. [1.1] PRETE, Roberta - TOFALO, Rosanna - FEDERICI, Ermanno - CIARROCCHI, Aurora - CENCI, Giovanni - CORSETTI, Aldo. Food-Associated *Lactobacillus plantarum* and Yeasts Inhibit the Genotoxic Effect of 4-Nitroquinoline-1-Oxide. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

7. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - JAM, Ali Mousavi - KHOSROUSHAHI, Ahmad Yari. Secretion metabolites of probiotic yeast, *Pichia kudriavzevii* AS-12, induces apoptosis pathways in human colorectal cancer cell lines. In *NUTRITION RESEARCH*. ISSN 0271-5317, 2017, vol. 41, no., pp. 36-46., Registrované v: WOS
8. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - KHOSROUSHAHI, Ahmad Yari. Cellular and molecular effects of yeast probiotics on cancer. In *CRITICAL REVIEWS IN MICROBIOLOGY*. ISSN 1040-841X, 2017, vol. 43, no. 1, pp. 96-115., Registrované v: WOS
9. [1.1] SCHIAVONE, Marion - DEJEAN, Sebastien - SIECZKOWSKI, Nathalie - CASTEX, Mathieu - DAGUE, Etienne - FRANCOIS, Jean M. Integration of Biochemical, Biophysical and Transcriptomics Data for Investigating the Structural and Nanomechanical Properties of the Yeast Cell Wall. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
10. [1.1] SZEJK, Magdalena - POPLAWSKI, Tomasz - CZUBATKA-BIENKOWSKA, Anna - OLEJNIK, Alicja Klaudia - PAWLACZYK-GRAJA, Izabela - GANCARZ, Roman - ZBIKOWSKA, Halina Malgorzata. A comparative study on the radioprotective potential of the polyphenolic glycoconjugates from medicinal plants of Rosaceae and Asteraceae families versus their aglycones. In *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY*. ISSN 1011-1344, 2017, vol. 171, no., pp. 50-57., Registrované v: WOS
11. [1.1] WIEGAND, C. - FINK, S. - HIPLER, U-C - BEIER, O. - HORN, K. - SCHIMANSKI, A. - GRUENLER, B. Cold atmospheric pressure plasmas exhibit antimicrobial properties against critical bacteria and yeast species. In *JOURNAL OF WOUND CARE*. ISSN 0969-0700, 2017, vol. 26, no. 8, pp. 462-468., Registrované v: WOS

ADCA342 KOGAN, Grigorij - SADOVSKAYA, I. - CHAIGNON, P. - CHOKR, A. - JABBOURI, S. Biofilms of clinical strains of *Staphylococcus* that do not contain polysaccharide intercellular adhesin. In *FEMS Microbiology Letters*, 2006, vol. 255, p. 11-16. (2.040 - IF2005). (2006 - Current Contents). ISSN 0378-1097.

Citácie:

1. [1.1] GOGOI-TIWARI, Jully - WILLIAMS, Vincent - WARYAH, Charlene Babra - COSTANTINO, Paul - AL-SALAMI, Hani - MATHAVAN, Sangeetha - WELLS, Kelsi - TIWARI, Harish Kumar - HEGDE, Nagendra - ISLOOR, Shrikrishna - AL-SALLAMI, Hesham - MUKKUR, Trilochan. Mammary Gland Pathology Subsequent to Acute Infection with Strong versus Weak Biofilm Forming *Staphylococcus aureus* Bovine Mastitis Isolates: A Pilot Study Using Non-Invasive Mouse Mastitis Model. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
2. [1.1] NOSTRO, Antonia - MARINO, Andreana - GINESTRA, Giovanna - CELLINI, Luigina - DI GIULIO, Mara - BISIGNANO, Giuseppe. Effects of adaptation to carvacrol on *Staphylococcus aureus* in the planktonic and biofilm phases. In *BIOFOULING*. ISSN 0892-7014, 2017, vol. 33, no. 6, pp. 470-480., Registrované v: WOS

ADCA343 KOGAN, Grigorij - ŠOLTĚS, 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. (1.134 - IF2006). (2007 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] ARKAN, E. - AZANDARYANI, A.H. - MORADIPOUR, P. - BEHBOOD, L. Biomacromolecular Based Fibers in Nanomedicine: A Combination of Drug Delivery and Tissue Engineering. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2017, vol. 18, no. 11, p. 909-924., Registrované v: WOS
2. [1.1] AYALA-CAMINERO, R. - PINZON-HERRERA, L. - MARTINEZ, C.A.R. - ALMODOVAR, J. Polymeric scaffolds for three-dimensional culture of nerve cells: a model of peripheral nerve regeneration. In *MRS COMMUNICATIONS*. ISSN 2159-6859, 2017, vol. 7, no. 3, p. 391-415., Registrované v: WOS
3. [1.1] BASSAS-GALIA, M. - FOLLONIER, S. - PUSNIK, M. - ZINN, M. Natural polymers: a source of inspiration. In *BIORESORBABLE POLYMERS FOR BIOMEDICAL APPLICATIONS: FROM FUNDAMENTALS TO TRANSLATIONAL MEDICINE*. ISSN 2049-9485, 2017, vol. 120, p. 31-64., Registrované v: WOS
4. [1.1] BEREZNEY, J.P. - SALEH, O.A. Electrostatic effects on the conformation and elasticity of hyaluronic acid, a moderately flexible polyelectrolyte. In *MACROMOLECULES*. ISSN 0024-9297, 2017, vol. 50, no. 3, p. 1085-1089., Registrované v: WOS
5. [1.1] BHATTACHARYA, D.S. - SVECHKAREV, D. - SOUCHEK, J.J. - HILL, T.K. - TAYLOR, M.A. - NATARAJAN, A. - MOHS, A.M. Impact of structurally modifying hyaluronic acid on CD44 interaction. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-7518, 2017, vol. 5, no. 41, p. 8183-8192., Registrované v: WOS
6. [1.1] BOWDEN, D.J. - BYRNE, C.A. - ALKHAYAT, A. - EUSTACE, S.J. - KAVANAGH, E.C. Injectable viscoelastic supplements: A review for radiologists. In *AMERICAN JOURNAL OF*

- ROENTGENOLOGY. ISSN 0361-803X, 2017, vol. 209, no. 4, p. 883-888., Registrované v: WOS
7. [1.1] BRAUNGER, J.A. - BJORNMALM, M. - ISLES, N.A. - CUI, J.W. - HENDERSON, T.M.A. - O'; CONNOR, A.J. - CARUSO, F. Interactions between circulating nanoengineered polymer particles and extracellular matrix components in vitro. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2017, vol. 5, no. 2, p. 267-273., Registrované v: WOS
8. [1.1] CAI, Z.X. - ZHANG, H.B. - WEI, Y. - WEI, Y.Y. - XIE, Y.P. - CONG, F.S. Reduction- and pH-Sensitive Hyaluronan Nanoparticles for Delivery of Iridium(III) Anticancer Drugs. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 7, p. 2102-2117., Registrované v: WOS
9. [1.1] DE OLIVEIRA, S.A. - DA SILVA, B.C. - RIEGEL-VIDOTTI, I.C. - URBANO, A. - FARIATISCHER, P.C.D. - TISCHER, C.A. Production and characterization of bacterial cellulose membranes with hyaluronic acid from chicken comb. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 97, p. 642-653., Registrované v: WOS
10. [1.1] DOS SANTOS, H.F. - CAMPOS, J.F. - DOS SANTOS, C.M. - BALESTIERI, J.B.P. - SILVA, D.B. - CAROLLO, C.A. - SOUZA, K.P. - ESTEVINHO, L.M. - DOS SANTOS, E.L. Chemical profile and antioxidant, anti-inflammatory, antimutagenic and antimicrobial activities of geopropolis from the stingless bee *Melipona orbignyi*. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, 2017, vol. 18, no. 5, art. no. 953., Registrované v: WOS
11. [1.1] EDELMAN, R. - ASSARAF, Y.G. - LEVITZKY, I. - SHAHAR, T. - LIVNEY, Y.D. Hyaluronic acid-serum albumin conjugate-based nanoparticles for targeted cancer therapy. In ONCOTARGET. ISSN 1949-2553, 2017, vol. 8, no. 15, p. 24337-24353., Registrované v: WOS
12. [1.1] ESMAEILI, A. - RAJAEI, S. The preparation of hyaluronic acid nanoparticles from *Aspicilia* lichens using bifido bacteria for help in the treatment of diabetes in rats in vivo. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2017, vol. 31, no. 10, p. 1590-1599., Registrované v: WOS
13. [1.1] FAYAD, S. - NEHME, R. - LANGMAJEROVA, M. - AYELA, B. - COLAS, C. - MAUNIT, B. - JACQUINET, J.C. - VIBERT, A. - LOPIN-BON, C. - GLATZ, Z. - MORIN, P. Hyaluronidase reaction kinetics evaluated by capillary electrophoresis with UV and high-resolution mass spectrometry (HRMS) detection. In ANALYTICA CHIMICA ACTA. ISSN 0003-2670, 2017, vol. 951, p. 140-150., Registrované v: WOS
14. [1.1] FU, X. - SHANG, W.J. - WANG, S.S. - LIU, Y.P. - QU, J.Y. - CHEN, X. - WANG, P.G. - FANG, J.Q. A general strategy for the synthesis of homogeneous hyaluronan conjugates and their biological applications. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 25, p. 3555-3558., Registrované v: WOS
15. [1.1] GEBE, J.A. - YADAVA, K. - RUPPERT, S.M. - MARSHALL, P. - HILL, P. - FALK, B.A. - SWEERE, J.M. - HAN, H.W. - KABER, G. - MEDINA, C. - MIKECZ, K. - ZIEGLER, S.F. - BALAJI, S. - KESWANI, S.G. - PEREZ, V.A.D. - BUTTE, M.J. - NADEAU, K. - ALTEMEIER, W.A. - FANGER, N. - BOLLYKY, P.L. Modified high-molecular-weight hyaluronan promotes allergen-specific immune tolerance. In AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. ISSN 1044-1549, 2017, vol. 56, no. 1, p. 109-120., Registrované v: WOS
16. [1.1] GUTER, M. - BREUNIG, M. Hyaluronan as a promising excipient for ocular drug delivery. In EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS. ISSN 0939-6411, 2017, vol. 113, p. 34-49., Registrované v: WOS
17. [1.1] HOU, K.-T. - CHANG, S.-J. - CHEN, S.-Y. Magnetic amphiphilic gelatin microcapsules for cartilage tissue engineering. (Conference Paper). In 2017 IEEE 17th International Conference on Nanotechnology, NANO 2017. Pittsburgh, 2017, art. no. 8117425, p. 999-1002. ISBN 978-150903028-6, Registrované v: WOS
18. [1.1] IBRAHIM, M.S. - EL-WASSEFY, N.A. - FARAHAT, D.S. Biocompatibility of dental biomaterials. In Tayebi, L. Moharamzadeh, K. eds. BIOMATERIALS FOR ORAL AND DENTAL TISSUE ENGINEERING. Book Series: Woodhead Publishing Series in Biomaterials. Woodhead publ., Cambridge, England, 2017, p. 117-140. ISSN 2049-9485, ISBN: 978-0-08-100967-3; 978-0-08-100961-1., Registrované v: WOS
19. [1.1] KASIEWICZ, L.N. - WHITEHEAD, K.A. Recent advances in biomaterials for the treatment of diabetic foot ulcers. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2017, vol. 5, no. 10, p. 1962-1975., Registrované v: WOS
20. [1.1] KATSUMI, H. - TANAKA, Y. - HITOMI, K. - LIU, S. - QUAN, Y.-S. - KAMIYAMA, F. - SAKANE, T. - YAMAMOTO, A. Efficient transdermal delivery of alendronate, a nitrogen-containing bisphosphonate, using tip-loaded self-dissolving microneedle arrays for the treatment of osteoporosis. In PHARMACEUTICS. ISSN 1999-4923, 2017, vol. 9, no. 3, art. no. 29., Registrované v: WOS

21. [1.1] KIM, E.C. - YOON, S.J. - NOH, K. - LEE, D.W. Dual effect of curcumin/ BMP-2 loaded in HA/PLL hydrogels on osteogenesis in vitro and in vivo. In JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. ISSN 1533-4880, 2017, vol. 17, no. 1, p. 143-152., Registrované v: WOS
22. [1.1] KIM, H. - JEONG, H. - HAN, S. - BEACK, S. - HWANG, B.W. - SHIN, M. - OH, S.S. - HAHN, S.K. Hyaluronate and its derivatives for customized biomedical applications. In BIOMATERIALS. ISSN 0142-9612, 2017, vol. 123, p. 155-171., Registrované v: WOS
23. [1.1] KIM, S. - JANG, Y. - JANG, L.K. - SUNWOO, S.H. - KIM, T.I. - CHO, S.W. - LEE, J.Y. Electrochemical deposition of dopamine-hyaluronic acid conjugates for anti-biofouling bioelectrodes. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2017, vol. 5, no. 23, p. 4507-4513., Registrované v: WOS
24. [1.1] KOROGIANNAKI, M. - ZHANG, J.F. - SHEARDOWN, H. Surface modification of model hydrogel contact lenses with hyaluronic acid via thiol-ene "click" chemistry for enhancing surface characteristics. In JOURNAL OF BIOMATERIALS APPLICATIONS. ISSN 0885-3282, 2017, vol. 32, no. 4, p. 446-462., Registrované v: WOS
25. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 1837-1843., Registrované v: WOS
26. [1.1] KUMMARA, M.R. - KUMAR, A. - SOO, H.S. Development of antibacterial paper coated with sodium hyaluronate stabilized curcumin-Ag nanohybrid and chitosan via polyelectrolyte complexation for medical applications. In MATERIALS RESEARCH EXPRESS. ISSN 2053-1591, 2017, vol. 4, no. 11, art. no. 115401., Registrované v: WOS
27. [1.1] LI, F. - HAO, P. - LIU, G.J. - WANG, W.Y. - HAN, R.F. - JIANG, Z.X. - LI, X. Effects of 4-methylumbelliferone and high molecular weight hyaluronic acid on the inflammation of corneal stromal cells induced by LPS. In GRAEFES ARCHIVE FOR CLINICAL AND EXPERIMENTAL OPHTHALMOLOGY. ISSN 0721-832X, 2017, vol. 255, no. 3, p. 559-566., Registrované v: WOS
28. [1.1] LI, R. - CAI, Z. - LI, Z. - ZHANG, Q. - ZHANG, S. - DENG, L. - LU, L. - LI, L. - ZHOU, C. Synthesis of in-situ formable hydrogels with collagen and hyaluronan through facile Michael addition. In MATERIALS SCIENCE AND ENGINEERING C. ISSN 0928-4931, 2017, vol. 77, p. 1035-1043., Registrované v: WOS
29. [1.1] MENDEZ, P.A. - ORTIZ, B.L. - VASQUEZ, G.M. - LOPEZ, B.L. Mucoadhesive chitosan/OA nanoparticles charged with celecoxib inhibit prostaglandin E2 LPS-induced in U937 cell line. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 37, art. no. 45288., Registrované v: WOS
30. [1.1] MISTRY, N. - MOSKOW, J. - SHELKE, N.B. - YADAV, S. - BERG-FOELS, W.S.V. - KUMBAR, S.G. Bio-Instructive Scaffolds for Cartilage Regeneration. In Brown, J.L. et al. eds. BIO-INSTRUCTIVE SCAFFOLDS FOR MUSCULOSKELETAL TISSUE ENGINEERING AND REGENERATIVE MEDICINE. Academic Press LTD-Elsevier Science, 2017, p. 115-135. ISBN 978-0-12-803399-9; 978-0-12-803394-4., Registrované v: WOS
31. [1.1] NAPAICHAYANUN, S. - ARAMWIT, P. Effect of animal products and extracts on wound healing promotion in topical applications: a review. In JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION. ISSN 0920-5063, 2017, vol. 28, no. 8, p. 703-729., Registrované v: WOS
32. [1.1] PABJANCZYK-WLAZLO, E. - KRUCINSKA, I. - CHRZANOWSKI, M. - SZPARAGA, G. - CHABERSKA, A. - KOLESINSKA, B. - KOMISARCZYK, A. - BOGUN, M. Fabrication of Pure Electrospun Materials from Hyaluronic Acid. In FIBRES & TEXTILES IN EASTERN EUROPE. ISSN 1230-3666, 2017, vol. 25, no. 3, p. 45-52., Registrované v: WOS
33. [1.1] PARK, J.I. - LEE, J.E. - SHIN, H.J. - SONG, S. - LEE, W.K. - HWANG, J.S. Oral administration of glycine and leucine dipeptides improves skin hydration and elasticity in UVB-irradiated hairless mice. In BIOMOLECULES & THERAPEUTICS. ISSN 1976-9148, 2017, vol. 25, no. 5, p. 528-534., Registrované v: WOS
34. [1.1] PARK, S.B. - LIH, E. - PARK, K.S. - JOUNG, Y.K. - HAN, D.K. Biopolymer-based functional composites for medical applications. In PROGRESS IN POLYMER SCIENCE. ISSN 0079-6700, 2017, vol. 68, p. 77-105., Registrované v: WOS
35. [1.1] PEPELIAEV, S. - HRUDIKOVA, R. - JILKOVA, J. - PAVLIK, J. - SMIRNOU, D. - CERNY, Z. - FRANKE, L. Colorimetric enzyme-coupled assay for hyaluronic acid determination in complex samples. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 94, p. 460-470., Registrované v: WOS
36. [1.1] QUADE, M. - KNAACK, S. - AKKINENI, A.R. - GABRIELIAN, A. - LODE, A. - ROSEN-WOLFF, A. - GELINSKY, M. Central Growth Factor Loaded Depots in Bone Tissue Engineering Scaffolds for Enhanced Cell Attraction. In TISSUE ENGINEERING PART A. ISSN 1937-3341, 2017, vol. 23, no. 15-16, SI, p. 762-772., Registrované v: WOS

37. [1.1] RALA, N.R. - PARTLOW, B.P. - MCGILL, M. - KIMMERLING, E.P. - GHEZZI, C.E. - KAPLAN, D.L. Enzymatically crosslinked silk-hyaluronic acid hydrogels. In *BIOMATERIALS*. ISSN 0142-9612, 2017, vol. 131, p. 58-67., Registrované v: WOS
38. [1.1] RIGAUX, G. - GHERAN, C.V. - CALLEWAERT, M. - CADIOU, C. - VOICU, S.N. - DINISCHIOTU, A. - ANDRY, M.C. - VANDER ELST, L. - LAURENT, S. - MULLER, R.N. - BERQUAND, A. - MOLINARI, M. - HUCLIER-MARKAI, S. - CHUBURU, F. Characterization of Gd loaded chitosan-TPP nanohydrogels by a multi-technique approach combining dynamic light scattering (DLS), asymmetrical flow-field-flow-fractionation (AF4) and atomic force microscopy (AFM) and design of positive contrast agents for molecular resonance imaging (MRI). In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 5, art. no. 055705., Registrované v: WOS
39. [1.1] SABBIETI, M.G. - DUBBINI, A. - LAUS, F. - PAGGI, E. - MARCHEGLIANI, A. - CAPITANI, M. - MARCHETTI, L. - DINI, F. - VERMONDEN, T. - DI MARTINO, P. - AGAS, D. - CENSI, R. In vivo biocompatibility of p(HPMAm-lac)-PEG hydrogels hybridized with hyaluronan. In *JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE*. ISSN 1932-6254, 2017, vol. 11, no. 11, p. 3056-3067., Registrované v: WOS
40. [1.1] SABRA, S. - ABDELMONEEM, M. - ABDELWAKIL, M. - MABROUK, M.T. - ANWAR, D. - MOHAMED, R. - KHATTAB, S. - BEKHIT, A. - ELKHODAIRY, K. - FREAG, M. - ELZOGHBY, A. Self-Assembled Nanocarriers Based on Amphiphilic Natural Polymers for Anti-Cancer Drug Delivery Applications. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2017, vol. 23, no. 35, p. 5213-5229., Registrované v: WOS
41. [1.1] SAFAEI, M. - TARAN, M. Optimal conditions for producing bactericidal sodium hyaluronate-TiO₂ bionanocomposite and its characterization. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 104, part A, p. 449-456., Registrované v: WOS
42. [1.1] SAHINER, N. - SAGBAS, S. - SAHINER, M. - AYYALA, R.S. Polyethyleneimine modified poly(Hyaluronic acid) particles with controllable antimicrobial and anticancer effects. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 159, p. 29-38., Registrované v: WOS
43. [1.1] SCRIMGEOUR, J. - MCLANE, L.T. - CHANG, P.S. - CURTIS, J.E. Single-Molecule Imaging of Proteoglycans in the Pericellular Matrix. In *BIOPHYSICAL JOURNAL*. ISSN 0006-3495, 2017, vol. 113, no. 11, p. 2316-2320., Registrované v: WOS
44. [1.1] SINGH, L. - CHOONARA, Y.E. - DU TOIT, L.C. - KUMAR, P. - CHAKRABORTY, A. - PILLAY, V. Design, characterization and optimization of lamivudine-loaded amphiphilic HA-g-ECL nanoparticles. In *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY*. ISSN 1773-2247, 2017, vol. 39, p. 75-87., Registrované v: WOS
45. [1.1] STACH, S. - TALU, S. - TRABATTONI, S. - TAVAZZI, S. - GLUCHACZKA, A. - SIEK, P. - ZAJAC, J. - GIOVANZANA, S. Morphological properties of siloxane-hydrogel contact lens surfaces. In *CURRENT EYE RESEARCH*. ISSN 0271-3683, 2017, vol. 42, no. 4, p. 498-505., Registrované v: WOS
46. [1.1] TAYSANLI, B. - OKAY, O. Mechanically strong hyaluronic acid hydrogels with an interpenetrating network structure. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 94, p. 185-195., Registrované v: WOS
47. [1.1] VASILE, D. - IANCU, R. - BOGDANICI, C. - UNGUREANU, E. - CIOBOTEI, D. - CIULUVICA, R. - IANCU, G. Chemo-physical properties and biomedical applications of hyaluronic acid in medicine. In *REVISTA DE CHIMIE*. ISSN 0034-7752, 2017, vol. 68, no. 2, p. 384-386., Registrované v: WOS
48. [1.1] WANG, L. - WANG, Y.T. - HAO, J.C. - DONG, S.L. Magnetic fullerene-DNA/hyaluronic acid nanovehicles with magnetism/reduction dual-responsive triggered release. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 3, p. 1029-1038., Registrované v: WOS
49. [1.1] WENDE, F.J. - GOHIL, S. - NORD, L.I. - KENNE, A.H. - SANDSTROM, C. 1D NMR methods for determination of degree of cross-linking and BDDE substitution positions in HA hydrogels. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, p. 1525-1530., Registrované v: WOS
50. [1.1] YU, J. - ZHANG, Y. - SUN, W. - KAHKOSKA, A.R. - WANG, J. - BUSE, J.B. - GU, Z. Insulin-Responsive Glucagon Delivery for Prevention of Hypoglycemia. In *SMALL*. ISSN 1613-6810, 2017, vol. 13, no. 19, art. no. 1603028., Registrované v: WOS
51. [1.1] ZAJAC, M. - KULAWIK, P. - TKACZEWSKA, J. - MIGDAŁ, W. - FILIPCZAK-FIUTAK, M. - FIUTAK, G. The effect of hyaluronic acid addition on the properties of smoked homogenised sausages. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 8, p. 2316-2326., Registrované v: WOS
52. [1.1] ZHANG, Y.Q. - LIU, Q.M. - YU, J.C. - YU, S.J. - WANG, J.Q. - QIANG, L. - GU, Z. Locally induced adipose tissue browning by microneedle patch for obesity treatment. In *ACS*

- NANO. ISSN 1936-0851, 2017, vol. 11, no. 9, p. 9223-9230., Registrované v: WOS
53. [1.1] ZHANG, Y.Q. - YU, J.C. - WANG, J.Q. - HANNE, N.J. - CUI, Z. - QIAN, C.G. - WANG, C. - XIN, H.L. - COLE, J.H. - GALLIPPI, C.M. - ZHU, Y. - GU, Z. Thrombin-responsive transcutaneous patch for auto-anticoagulant regulation. In *ADVANCED MATERIALS*. ISSN 0935-9648, 2017, vol. 29, no. 4, art. no. 1604043., Registrované v: WOS
54. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. - GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. - TROMBETTA, M. Hyaluronan: An overview. In *JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS*. ISSN 0393-974X, 2017, vol. 31, no. 4, p. 9-22., Registrované v: SCOPUS
55. [1.2] DURU, I. - OĞUZ, Ö.D. - ÖZTATLI, H. - ARIKFIDAN, D.C. - KAYA, H. - DÖNMEZ, E. - EGE, D. Principle renewable biopolymers and their biomedical applications. (Book Chapter). In *HANDBOOK OF COMPOSITES FROM RENEWABLE MATERIALS*. Wiley 2017, vol. 1-8, p. 107-138. ISBN 978-111944163-2/978-111922362-7, Registrované v: SCOPUS
56. [1.2] KAMALA, K. - SIVAPERUMAL, P. Biological activities of marine biopolymers. (Book Chapter). In *INDUSTRIAL APPLICATIONS OF MARINE BIOPOLYMERS*. CRC Press 2017, p. 179-192. ISBN 978-131531352-8;978-149873148-5, Registrované v: SCOPUS
57. [1.2] KIM, J.K. - JUNG, H.Y. - CHO, J.Y. Zero-emission management of organic fisheries'; waste and its favorable impact on the environment. (Book Chapter). In *ORGANIC WASTE: MANAGEMENT STRATEGIES, ENVIRONMENTAL IMPACT AND EMERGING REGULATIONS*. Nova Science Publishers, 2017, p. 39-69. ISBN 978-153610936-8;978-153610920-7., Registrované v: SCOPUS
58. [1.2] PALAGI, S. - WALKER, D. - QIU, T. - FISCHER, P. Micro- and nanorobots in Newtonian and biological viscoelastic fluids. (Book Chapter). In *MICROBIOBOTICS: BIOLOGICALLY INSPIRED MICROSCALE ROBOTIC SYSTEMS: SECOND EDITION*. Elsevier Inc., 2017, p. 133-162. ISBN 978-032342993-1, Registrované v: SCOPUS
59. [1.2] SIRISHA, V.L. - DSOUZA, J.S. Polysaccharide-based nanoparticles as drug delivery systems. (Book Chapter). In *MARINE OMICS: PRINCIPLES AND APPLICATIONS*. CRC Press, 2016, p. 643-682. ISBN 978-148225821-9;978-148225820-2, Registrované v: SCOPUS
60. [1.2] VEERURAJ, A. - ARUMUGAM, M. - AJITHKUMAR, T.T. - BALASUBRAMANIAN, T. Bioprospecting potential of marine natural polymers of chitin and chitosan. (Book Chapter). In *MARINE GLYCOBIOLOGY: PRINCIPLES AND APPLICATIONS*. CRC Press, 2016, p. 263-278. ISBN 978-149870962-0;978-149870961-3, Registrované v: SCOPUS
61. [1.2] WILSON, J.L. - MCDEVITT, T.C. Biofunctional Hydrogels for Three-Dimensional Stem Cell Culture. (Book Chapter). In *BIOLOGY AND ENGINEERING OF STEM CELL NICHES*. Elsevier Inc., 2017, p. 345-362. ISBN 978-012802756-1;978-012802734-9, Registrované v: SCOPUS
62. [1.2] ZAKERI, A. - RASAEI, M.J. - POURZARDOSHT, N. Enhanced hyaluronic acid production in *Streptococcus zooepidemicus* by over expressing HasA and molecular weight control with Niscin and glucose. In *BIOTECHNOLOGY REPORTS*. ISSN 2215-017X, 2017, vol. 16, p. 65-70., Registrované v: SCOPUS
63. [1.2] ZHENG, S. - CHO, S. - NGUYEN, V.D. - CHOI, E. - HAN, J. - PARK, J.-O. Development of hyaluronic acid microcargo for therapeutic bacteriobots. (Conference Paper). In edit. vol. Haliyo S., Martel S., Fatikow S. *INTERNATIONAL CONFERENCE ON MANIPULATION, AUTOMATION AND ROBOTICS AT SMALL SCALES. MARSS 2017 - PROCEEDINGS*. Publish. Institute of Electrical and Electronics Engineers, 2017, art. no. 8001912. ISBN 978-153860346-8., Registrované v: SCOPUS

ADCA344

KOGAN, Grigorij - STAŠKO, Andrej - BAUEROVÁ, Katarína - POLOVKA, Martin - ŠOLTÉS, 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. (1.710 - IF2004). (2005 - Current Contents). ISSN 0144-8617.

Citácie:

- [1.1] AHMED, M. - ABDULLAH, N. - SHUIB, A.S. - RAZAK, S.A. Influence of raw polysaccharide extract from mushroom stalk waste on growth and pH perturbation induced-stress in Nile tilapia, *Oreochromis niloticus*. In *AQUACULTURE*. ISSN 0044-8486, 2017, vol. 468, part A, p. 60-70., Registrované v: WOS
- [1.1] AHMED, M. - ABDULLAH, N. - YUSOF, H.M. - SHUIB, A.S. - RAZAK, S.A. Improvement of growth and antioxidant status in Nile tilapia, *Oreochromis niloticus*, fed diets supplemented with mushroom stalk waste hot water extract. In *AQUACULTURE RESEARCH*. ISSN 1355-557X, 2017, vol. 48, no. 3, p. 1146-1157., Registrované v: WOS
- [1.1] CAO, R.G. - YANG, X.Y. - SHANG, W.T. - ZHOU, Z.K. - STRAPPE, P. - BLANCHARD, C. Functional enrichment of mannanase-treated spent brewer yeast. In *PREPARATIVE*

BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 8, p. 789-794., Registrované v: WOS

4. [1.1] FREIRE, A.L. - RAMOS, C.L. - DA COSTA SOUZA, P.N. - CARDOSO, M.G.B. - SCHWAN, R.F. *Nondairy beverage produced by controlled fermentation with potential probiotic starter cultures of lactic acid bacteria and yeast*. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY*. ISSN 0168-1605, 2017, vol. 248, p. 39-46., Registrované v: WOS

5. [1.2] NIE, S. - CUI, S.W. - XIE, M. *Bioactive Polysaccharides*. (Book). In *BIOACTIVE POLYSACCHARIDES*. Academic Press, 2017, p. 1-554. ISBN: 978-012811451-3; 978-012809418-1, Registrované v: SCOPUS

ADCA345 KOHN, R. Binding of toxic cations to pectin, its oligomeric fragments and plant tissues. In *Carbohydrate Polymers*, 1982, vol. 2, p. 273-275. ISSN 0144-8617.

Citácie:

1. [1.2] MALHOTRA, Bhanu - KHARKWAL, Harsha - SRIVASTAVA, Anuradha. *Water-soluble biodegradable polymers for drug delivery*. In *Natural Polymers for Drug Delivery*, 2016-12-07, pp. 37-44., Registrované v: SCOPUS

2. [1.2] MUDGIL, Deepak. *The Interaction Between Insoluble and Soluble Fiber*. In *Dietary Fiber for the Prevention of Cardiovascular Disease: Fiber's Interaction between Gut Microflora, Sugar Metabolism, Weight Control and Cardiovascular Health*, 2017-07-13, pp. 35-59., Registrované v: SCOPUS

ADCA346 KOHN, Rudolf. Ion binding on polyuronates - alginate and pectin. In *Pure and Applied Chemistry*, 1975, vol. 42, p. 371-397. ISSN 0033-4545.

Citácie:

1. [1.1] ADITI, Mahapatra - SHASHIREKHA, M. N. - SUDHA, M. L. *Characterization and bake stability of dry fruit fillings in dehydrated chiku (Manilkara zapota L. P. Royen) incorporated biscuits*. In *JOURNAL OF TEXTURE STUDIES*. ISSN 0022-4901, 2017, vol. 48, no. 3, pp. 231-240., Registrované v: WOS

2. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. *Calcium binding and calcium-induced gelation of normal low-methoxyl pectin modified by low molecular-weight polyuronate fraction*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 69, no., pp. 318-328., Registrované v: WOS

3. [1.1] RINAUDO, Marguerite. *Physicochemical behaviour of semi-rigid biopolymers in aqueous medium*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 68, no., pp. 122-127., Registrované v: WOS

4. [1.2] Borgogna, M., Marsich, E., Donati, I., Paoletti, S., & Travan, A. (2016). *Hydrogels*. In *Matricardi, P., Alhaique, F., Coviello, T. (eds.). Polysaccharide Hydrogels: Characterization and Biomedical Applications* (Pan Stanford Publishing, chapter 2, pp. 39-81), Registrované v: SCOPUS

5. [1.2] HSU, Chun Hsiang - CHIANG, Po Yuan. *Powder quality and release characteristics of fluidized bed granulation and wurster coating mode with encapsulated pectin*. In *Taiwanese Journal of Agricultural Chemistry and Food Science*. ISSN 16052471, 2017-06-01, 55, 3-4, pp. 202-213., Registrované v: SCOPUS

ADCA347 KOHN, Rudolf - LARSEN, B. Preparation of water-soluble polyuronic acids and their calcium salts and the determination of calcium activity in relation to the degree of polymerization. In *Acta Chemica Scandinavica*, 1972, vol. 26, p. 2455-2468.

Citácie:

1. [1.1] NAKAUMA, Makoto - FUNAMI, Takahiro - FANG, Yapeng - NISHINARI, Katsuyoshi - DRAGET, Kurt I. - PHILLIPS, Glyn O. *Calcium binding and calcium-induced gelation of normal low-methoxyl pectin modified by low molecular-weight polyuronate fraction*. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 69, no., pp. 318-328., Registrované v: WOS

2. [1.2] NAHAR, Kamrun - HOSSAIN, Md Kamal - KHAN, Tanveer Ahmed. *Alginates: The wonder molecule and its gelling techniques*. In *Research Journal of Pharmacy and Technology*. ISSN 09743618, 2017-09-01, 10, 9, pp. 3195-3204., Registrované v: SCOPUS

ADCA348 KOLAROVA, Nadežda - MASLER, Ladislav - ŠIKL, D. Cell wall glycopeptides of *Candida albicans* serotype A and B. In *Biochimica et Biophysica Acta*, 1973, vol. 328, p. 221-227.

Citácie:

1. [1.1] WESTER, Michael J. - LIN, Jia - NEUMANN, Aaron K. *A computational model for regulation of nanoscale glucan exposure in Candida albicans*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS

ADCA349 KOLAROVA, Nadežda - FARKAŠ, Vladimír. Sensitivity of various yeasts to crude cellulolytic enzyme complexes from *Trichoderma reesei*. In *European Journal of Applied Microbiology and Biotechnology*, 1981, vol. 13, p. 184-187.

Citácie:

1. [1.1] ZICHOVA, Miroslava - STRATILOVA, Eva - OMELKOVA, Jirina - VADKERTIOVA,

- Renata - BABAK, Libor - ROSENBERG, Michal. *Production of ethanol from waste paper using immobilized yeasts. In CHEMICAL PAPERS. ISSN 0366-6352, 2017, vol. 71, no. 3, pp. 553-561., Registrované v: WOS*
- ADCA350 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] DALLABONA, Cristina - BARUFFINI, Enrico - GOFFRINI, Paola - LODI, Tiziana. *Dominance of yeast aac2(R96H) and aac2(R252G) mutations, equivalent to pathological mutations in ant1, is due to gain of function. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2017, vol. 493, no. 2, pp. 909-913., Registrované v: WOS*
2. [1.1] DUFAY, J. Noelia - FERNANDEZ-MURRAY, J. Pedro - MCMASTER, Christopher R. *SLC25 Family Member Genetic Interactions Identify a Role for HEM25 in Yeast Electron Transport Chain Stability. In G3-GENES GENOMES GENETICS. ISSN 2160-1836, 2017, vol. 7, no. 6, pp. 1861-1873., Registrované v: WOS*
3. [1.1] Group Author(s): Uniprot Consortium. P18238. In: *UniProt Knowledgebase Source URL: http://www.uniprot.org/uniprot/P18238, Registrované v: WOS*
4. [1.1] Group Author(s): Uniprot Consortium. P18239. In: *UniProt Knowledgebase Source URL: http://www.uniprot.org/uniprot/P18239, Registrované v: WOS*
5. [1.1] SCARCIA, P. - PALMIERI, L. - AGRIMI, G. - PALMIERI, F. - ROTTENSTEINER, H. *Three mitochondrial transporters of Saccharomyces cerevisiae are essential for ammonium fixation and lysine biosynthesis in synthetic minimal medium. In MOLECULAR GENETICS AND METABOLISM. ISSN 1096-7192, 2017, vol. 122, no. 3, pp. 54-60., Registrované v: WOS*
- ADCA351 KOLAŘÍK, M. - SLÁVIKOVÁ, Elena - PAŽOUTOVÁ, S. The taxonomic and ecological characterisation of the clinically important heterobasidiomycete *Fugomyces cyanescens* and its association with bark beetles. In *Czech Mycology*, 2006, vol. 58, p. 81-98. ISSN 0009-0476.
Citácie:
1. [1.1] SITZ, Rachael A. - LUNA, Emily K. - CABALLERO, Jorge Ibarra - TISSERAT, Ned A. - CRANSHAW, Whitney S. - STEWART, Jane E. *Virulence of Genetically Distinct Geosmithia morbida Isolates to Black Walnut and Their Response to Coinoculation with Fusarium solani. In PLANT DISEASE. ISSN 0191-2917, 2017, vol. 101, no. 1, pp. 116-120., Registrované v: WOS*
2. [1.2] VAHEDI-DARMIYAN, Mohammad Ebrahim - JAHANI, Mehdi - MIRZAEI, Mohammad Reza - ASGARI, Bita. *A noteworthy record of endophytic Quambalaria cyanescens from Punica granatum in Iran. In Czech Mycology. ISSN 12110981, 2017-01-01, 69, 2, pp. 113-123., Registrované v: SCOPUS*
- ADCA352 KOLLÁROVÁ, Karin - LIŠKOVÁ, Desana - KÁKONIOVÁ, Daniela - LUX, Alexander. Effect of auxins on *Karwinskia humboldtiana* root cultures. In *Plant Cell, Tissue and Organ Culture : international journal on in vitro culture of higher plants*, 2004, vol. 79, p. 213-221. ISSN 0167-6857.
Citácie:
1. [1.1] DEEPTHI, S. - SATHEESHKUMAR, K. *Effects of major nutrients, growth regulators and inoculum size on enhanced growth and camptothecin production in adventitious root cultures of Ophiorrhiza mungos L. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2017, vol. 117, no., pp. 198-209., Registrované v: WOS*
2. [1.1] KHAN, Tariq - ABBASI, Bilal Haider - KHAN, Mubarak Ali - AZEEM, Muhammad. *Production of biomass and useful compounds through elicitation in adventitious root cultures of Fagonia indica. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 108, no., pp. 451-457., Registrované v: WOS*
- ADCA353 KOLLÁROVÁ, Karin - HENSELOVÁ, M. - LIŠKOVÁ, Desana. Effect of auxins and plant oligosaccharides on root formation and elongation growth of mung bean hypocotyls. In *Plant Growth Regulation*, 2005, vol. 46, p. 1-9. ISSN 0167-6903.
Citácie:
1. [1.1] FRY, Stephen C. *Potassium, not lepidimide, is the principal 'allelochemical' of cress-seed exudate that promotes amaranth hypocotyl elongation. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 120, no. 4, pp. 511-520., Registrované v: WOS*
- ADCA354 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.
Citácie:
1. [1.1] XIE, Jin - CUI, Chun - REN, Jiaoyan - ZHAO, Mouming - ZHAO, Long - WANG, Wei. *High solid concentrations facilitate enzymatic hydrolysis of yeast cells. In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2017, vol. 103, no., pp. 114-121., Registrované v: WOS*
- ADCA355 KÓŇA, Juraj - BRINCK, T. A combined molecular dynamics simulation and quantum chemical study on the mechanism for activation of the OxyR transcription factor by hydrogen peroxide. In

Organic and Biomolecular Chemistry, 2006, vol. 4, p. 3468-3478. ISSN 1477-0520.

Citácie:

1. [1.1] JELCIC, Mark - ENYEDI, Balazs - XAVIER, Joao B. - NIETHAMMER, Philipp. Image-Based Measurement of H₂O₂ Reaction Diffusion in Wounded Zebrafish Larvae. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2017, vol. 112, no. 9, pp. 2011-2018., Registrované v: WOS

ADCA356

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. (5.138 - IF2010). (2011 - Current Contents). ISSN 1549-9618.

Citácie:

1. [1.2] BORTOLI, Marco - TORSELLO, Mauro - BICKELHAUPT, F. Matthias - ORIAN, Laura. Role of the Chalcogen (S, Se, Te) in the Oxidation Mechanism of the Glutathione Peroxidase Active Site. In ChemPhysChem. ISSN 14394235, 2017-11-03, 18, 21, pp. 2950-., Registrované v: SCOPUS

ADCA357

KOŮŠ, Miroslav - MOSHER, H.S. α -Amino- α -trifluoromethyl-phenylacetone nitrile: A potential reagent for ¹⁹F NMR determination of enantiomeric purity of acids. In Tetrahedron, 1993, vol. 49, p. 1541-1546. ISSN 0040-4020.

Citácie:

1. [1.1] MORISAKI, Kazuhiro - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Direct access to N-unprotected tetrasubstituted propargylamines via direct catalytic alkynylation of N-unprotected trifluoromethyl ketimines. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 47, pp. 6319-6322., Registrované v: WOS

2. [1.1] SAWA, Masanao - MORISAKI, Kazuhiro - KONDO, Yuta - MORIMOTO, Hiroyuki - OHSHIMA, Takashi. Direct Access to N-Unprotected α - and/or β -Tetrasubstituted Amino Acid Esters via Direct Catalytic Mannich-Type Reactions Using N-Unprotected Trifluoromethyl Ketimines. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 67, pp. 17022-17028., Registrované v: WOS

ADCA358

KOŮŠ, Miroslav - MOSHER, H.S. A convenient synthesis of apiose. In Carbohydrate Research, 1986, vol. 146, p. 335-341. ISSN 0008-6215.

Citácie:

1. [1.1] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 17, pp. 11337-11405., Registrované v: WOS

ADCA359

KOŮŠ, Miroslav - STEINER, Bohumil - LANGER, V. - GYEPESOVÁ, Dalma - ŽURÍK, M. Preparation and structure determination of two sugar amino acids via corresponding hydantoin derivatives. In Carbohydrate Research, 2000, vol. 328, p. 115-126. (1.252 - IF1999). (2000 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] BISELLO, Annalisa - CARDENA, Roberta - ROSSI, Serena - CRISMA, Marco - FORMAGGIO, Fernando - SANTI, Saverio. Hydrogen-Bond-Assisted, Concentration-Dependent Molecular Dimerization of Ferrocenyl Hydantoins. In ORGANOMETALLICS. ISSN 0276-7333, 2017, vol. 36, no. 11, pp. 2190-2197., Registrované v: WOS

ADCA360

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. (4.074 - IF2014). (2015 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] XIE, Fang - YUAN, Shuzhi - PAN, Hanxu - WANG, Rui - CAO, Jiankang - JIANG, Weibo. Effect of yeast mannan treatments on ripening progress and modification of cell wall polysaccharides in tomato fruit. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 218, no., pp. 509-517., Registrované v: WOS

ADCA361

KOROLENKO, Tatyana - JOHNSTON, Tomas P. - LYKOV, Alexander P. - SHINTYAPINA, Alexandra B. - KHRAPOVA, Marina - GONCHAROVA, Natalya P. - KOROLENKO, Erik - BGATOVA, Natalia P. - MACHOVÁ, Eva - NEŠČÁKOVÁ, Zuzana - SAKHNO, Ludmila V. A comparative study of the hypolipidemic effects of a new polysaccharide, mannan Candida albicans serotype A, and atorvastatin in mice with poloxamer 407-induced hyperlipidaemia. In Journal of Pharmacy and Pharmacology, 2016, vol. 68, p. 1516-1526. ISSN 2328-2150.

Citácie:

1. [1.1] BARGAGLI, Elena - ROSI, Elisabetta - PISTOLESI, Massimo - LAVORINI, Federico - VOLTOLINI, Luca - ROTTOLI, Paola. Increased Risk of Atherosclerosis in Patients with Sarcoidosis. In PATHOBIOLOGY. ISSN 1015-2008, 2017, vol. 84, no. 5, pp. 258-263., Registrované v: WOS

ADCA362

KOROLENKO, Tatyana A. - PISAREVA, Ekaterina E. - FIFYUSHINA, Elena E. - JOHNSTON, Thomas P. - MACHOVÁ, Eva. Serum cystatin C and chitotriosidase in acute P-407 induced

dyslipidemia: Can they serve as potential early biomarkers for atherosclerosis? In *Experimental and toxicologic pathology*, 2015, vol. 67, p. 459-466. (1.860 - IF2014). (2015 - Current Contents). ISSN 0940-2993.

Citácie:

1. [1.1] BARGAGLI, Elena - ROSI, Elisabetta - PISTOLESI, Massimo - LAVORINI, Federico - VOLTOLINI, Luca - ROTTOLI, Paola. Increased Risk of Atherosclerosis in Patients with Sarcoidosis. In *PATHOBIOLOGY*. ISSN 1015-2008, 2017, vol. 84, no. 5, pp. 258-263.,

Registrované v: WOS

2. [1.1] YU, Shihui - ZHANG, Xiaoyu - TAN, Guoxin - TIAN, Lei - LIU, Dandan - LIU, Yaxuan - YANG, Xinggang - PAN, Weisan. A novel pH-induced thermosensitive hydrogel composed of carboxymethyl chitosan and poloxamer cross-linked by glutaraldehyde for ophthalmic drug delivery. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 155, no., pp. 208-217.,

Registrované v: WOS

ADCA363 KOSNIK, W. - BOCIAN, W. - KOZERSKI, I. - TVAROŠKA, Igor - CHMIELEWSKI, M. Enantioselective epoxidation of electrophilic olefins by using glycosyl hydroperoxides. In *Chemistry - A European Journal*, 2008, vol.14, p. 6087-6097. ISSN 0947-6539.

Citácie:

1. [1.1] KARAMAN, Halide Sedef - KILIC, Hamdullah - SAHIN, Engin. Asymmetric epoxidation of enones using cumyl hydroperoxide and in situ generated zinc complexes of chiral pyrrolidinyl alcohols. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2017, vol. 28, no. 11, pp. 1626-1632., Registrované v: WOS

2. [1.2] AI, Bai Ru - CHEN, Xu Ling - DONG, Yu - TANG, Lei - WANG, Ji Yu.

Tetrabutylammonium Iodide Catalyzed Epoxidation of Naphthoquinone Derivatives with tertButyl Hydroperoxide as an Oxidant. In *Synthesis (Germany)*. ISSN 00397881, 2017-09-01, 49, 17, pp. 4017-4024., Registrované v: SCOPUS

3. [1.2] Pellissier, H., Lattanzi, A., & Dalpozzo, R. (2017). In *Asymmetric synthesis of three-membered rings (Wiley, pp. 1-590)*., Registrované v: SCOPUS

ADCA364 KOSNIK, W. - BOCIAN, W. - CHMIELEWSKI, M. - TVAROŠKA, Igor. DFT calculations of the anomeric and exo-anomeric effect of the hydroperoxy groups. In *Carbohydrate Research*, 2008, vol.343, p. 1463-1472. (1.723 - IF2007). (2008 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] ROTELLA, Madeline - BEZPALKO, Mark - PIRO, Nicholas - LAZZARA, Nicholas - KASSEL, Scott - ZUBRIS, Deanna - GIULIANO, Robert. Synthesis, X-ray Crystallographic and Computational Analysis of 2,3-Dideoxy-alpha-and beta-D-erythro-Hexopyranosyl Cyanides: Anomeric Effect of the Cyano Group. In *STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL, VOL 1*. ISSN 0097-6156, 2017, vol. 1257, no., pp. 155-170.,

Registrované v: WOS

ADCA365 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] GIANNELLI, C. - CAPPELLETTI, E. - DI BENEDETTO, R. - PIPPI, F. - ARCURI, M. - DI CIOCCIO, V. - MARTIN, L. B. - SAUL, A. - MICOLI, F. Determination of free polysaccharide in Vi glycoconjugate vaccine against typhoid fever. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2017, vol. 139, no., pp. 143-147., Registrované v: WOS

2. [1.1] KHATUN, Farjana - STEPHENSON, Rachel J. - TOTH, Istvan. An Overview of Structural Features of Antibacterial Glycoconjugate Vaccines That Influence Their Immunogenicity. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 18, pp. 4233-4254., Registrované v: WOS

ADCA366 KOŠÍK, M. - REISER, V. - KOVÁČ, Pavol. Thermal decomposition of model compounds related to branched 4-O-methylglucuronoxylans. In *Carbohydrate Research*, 1979, vol. 70, p. 199-207. ISSN 0008-6215.

Citácie:

1. [1.2] Wang, S., & Luo, Z. (2017). In *Pyrolysis of biomass (Walter de Gruyter, pp. 1-255)*,

Registrované v: SCOPUS

ADCA367 KOŠÍK, M. - REISER, V. - DOMANSKÝ, R. Pyrolysis of beech wood at low temperatures. VIII. Conditions for the formation of furfural in the course of pyrolysis. In *Holzforschung und Holzverwertung*, 1969, vol. 21, p. 38-40.

Citácie:

1. [1.1] CHEN, Fuxin - HOU, Binbin - CHEN, Suying - ZHANG, Huikuan - GONG, Pin - ZHOU, Anning. Biochemicals distribution and the collaborative pyrolysis study from three main

- components of Helianthus annuus stems based on PY-GC/MS. In RENEWABLE ENERGY. ISSN 0960-1481, 2017, vol. 114, no., pp. 960-967., Registrované v: WOS*
- ADCA368 KOŠÍK, M. - HERAIN, J. - DOMANSKÝ, R.. Pyrolysis of beech wood and its components at low temperatures. IV. Basic data of the formation of gaseous products. In *Holzforschung und Holzverwertung*, 1968, vol. 20., p. 56-62.
Citácie:
1. [1.1] WANG, Zhe - SUN, Bailing - LIU, Junliang. INVESTIGATION OF VOLATILE PRODUCTS RELEASED DURING VACUUM HEAT TREATMENT OF LARCH WOOD. In *WOOD RESEARCH. ISSN 1336-4561, 2017, vol. 62, no. 5, pp. 773-782., Registrované v: WOS*
- ADCA369 KOŠÍKOVÁ, Božena - MLYNÁR, J. - ZAKUTNA, L. - JONIAK, Dusan. The relationship between ultrastructure and lignin extractability of steamed hardwoods. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1990, vol. 44, pp. 249-255. ISSN 0018-3830.
Citácie:
1. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In *FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS*
- ADCA370 KOŠÍKOVÁ, Božena - MIKLEŠOVÁ, K - DEMIANOVA, V. Characteristics of free radicals in composite lignin polypropylene films studied by the EPR method. In *European Polymer Journal*, 1993, vol. 29, p. 1495-1497. (0.834 - IF1992). (1993 - Current Contents). ISSN 0014-3057.
Citácie:
1. [1.1] PATIL, Shradha V. - ARGYROPOULOS, Dimitris S. Stable Organic Radicals in Lignin: A Review. In *CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 17, pp. 3284-3303., Registrované v: WOS*
- ADCA371 KOŠÍKOVÁ, Božena - SLAMENOVÁ, Darina - MIKULÁŠOVÁ, M. - HORVÁTHOVÁ, Eva - LÁBAJ, Juraj. Reduction of carcinogenesis by bio-based lignin derivatives. In *Biomass and Bioenergy*, 2002, vol. 23, no. 2, p. 153-159. ISSN 0961-9534.
Citácie:
1. [1.1] CAPUANO, Edoardo. The behavior of dietary fiber in the gastrointestinal tract determines its physiological effect. In *CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 16, pp. 3543-3564., Registrované v: WOS*
2. [1.1] QAZI, Sohail S. - LI, Dongbing - BRIENS, Cedric - BERRUTI, Franco - ABOU-ZAID, Mamdouh M. Antioxidant Activity of the Lignins Derived from Fluidized-Bed Fast Pyrolysis. In *MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS*
- ADCA372 KOŠÍKOVÁ, Božena - ZÁKUTNÁ, L. - JONIAK, D. Investigation of the lignin-saccharide complex by electron microscopy. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 1978, vol. 32, pp. 15-18. ISSN 0018-3830.
Citácie:
1. [1.1] GLASSER, Wolfgang G. - LOOS, Robert - COX, Blair - CAO, Nhiem. Melt-blown compostable polyester films with lignin. In *TAPPI JOURNAL. ISSN 0734-1415, 2017, vol. 16, no. 3, pp. 111-121., Registrované v: WOS*
2. [1.1] TIAN, Xiaofei - FANG, Zhen - SMITH, Richard L. - WU, Zhenqiang - LIU, Mingyou. Properties, Chemical Characteristics and Application of Lignin and Its Derivatives. In *PRODUCTION OF BIOFUELS AND CHEMICALS FROM LIGNIN. ISSN 2214-1537, 2016, vol., no., pp. 3-33., Registrované v: WOS*
- ADCA373 KOŠÍKOVÁ, Božena - LÁBAJ, J. - GREGOROVÁ, Adriana - SLAMENOVÁ, D. Lignin antioxidants for preventing oxidation damage of DNA and for stabilizing polymeric components. In *Holzforschung : International Journal of the Biology, Chemistry, Physics, and Technology of Wood*, 2006, vol. 60, pp. 166-170. ISSN 0018-3830.
Citácie:
1. [1.1] LAUBERTS, Maris - SEVASTYANOVA, Olena - PONOMARENKO, Jevgenija - DIZHBITE, Tatjana - DOBELE, Galina - VOLPERTS, Alexandr - LAUBERTE, Liga - TELYSHEVA, Galina. Fractionation of technical lignin with ionic liquids as a method for improving purity and antioxidant activity. In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 95, no., pp. 512-520., Registrované v: WOS*
2. [1.1] LIU, Di - LI, Ying - QIAN, Yong - XIAO, Yang - DU, Shengjun - QIU, Xueqing. Synergistic Antioxidant Performance of Lignin and Quercetin Mixtures. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 9, pp. 8424-8428., Registrované v: WOS*
- ADCA374 KOŠÍKOVÁ, Božena - JONIAK, Dusan - KOSÁKOVÁ, Ľ.. On the properties of benzyl ether bonds in the lignin-saccharidic complex isolated from spruce. In *Holzforschung*, 1979, vol. 33, p. 11-14.

ISSN 0018-3830. *Holzforschung* : International Journal of the Biology, Chemistry, Physics, and Technology of Wood, 1979, vol. 33, p. 11-14. ISSN 0018-3830.

Citácie:

1. [1.1] HENRIKSSON, Gunnar. What are the biological functions of lignin and its complexation with carbohydrates? In *NORDIC PULP & PAPER RESEARCH JOURNAL*. ISSN 0283-2631, 2017, vol. 32, no. 4, pp. 527-541., Registrované v: WOS
2. [1.1] MONOT, Claire - CHIRAT, Christine - EVANGELISTA, Brieuc - BROCHIER-SALON, Marie-Christine. Characterisation of lignin and lignin-carbohydrate complexes (LCCs) in prehydrolysed wood chips. In *HOLZFORSCHUNG*. ISSN 0018-3830, 2017, vol. 71, no. 3, pp. 199-205., Registrované v: WOS
3. [1.1] ZENG, Yining - HIMMEL, Michael E. - DING, Shi-You. Visualizing chemical functionality in plant cell walls. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
4. [1.2] LAI, Yuan Zong. Reactivity and accessibility of cellulose, hemicelluloses, and lignins. In *Chemical Modification of Lignocellulosic Materials*, 2017-01-01, pp. 35-95., Registrované v: SCOPUS

ADCA375 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana. Sulfur-free lignin as reinforcing component of styrene-butadiene rubber. In *Journal of Applied Polymer Science*, 2005, vol.97, p. 924-929. (1.021 - IF2004). (2005 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] LORA, Jairo H. Lignin: A Platform for Renewable Aromatic Polymeric Materials. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016, vol., no., pp. 221-261., Registrované v: WOS

ADCA376 KOŠÍKOVÁ, Božena - SLÁVIKOVÁ, Elena. Use of lignin products derived from wood pulping as environmentally desirable additives of polypropylene films. In *Wood Research*, 2010, vol. 55, p. 87-92. (0.369 - IF2009). ISSN 1336-4561.

Citácie:

1. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS
2. [1.1] KUN, David - PUKANSZKY, Bela. Polymer/lignin blends: Interactions, properties, applications. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 93, no., pp. 618-641., Registrované v: WOS

ADCA377 KOŠÍKOVÁ, Božena - GREGOROVÁ, Adriana - OSVALD, A. - KRAJČOVIČOVÁ, J. Role of lignin filler in stabilization of natural rubber-based composites. In *Journal of Applied Polymer Science*, 2007, vol. 103, p. 1226-1231. (1.306 - IF2006). (2007 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] DATTA, Janusz - PARCHETA, Paulina - SUROWKA, Joanna. Softwood-lignin/natural rubber composites containing novel plasticizing agent: Preparation and characterization. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 95, no., pp. 675-685., Registrované v: WOS
2. [1.1] DATTA, Janusz - PARCHETA, Paulina. A comparative study on selective properties of Kraft lignin-natural rubber composites containing different plasticizers. In *IRANIAN POLYMER JOURNAL*. ISSN 1026-1265, 2017, vol. 26, no. 6, pp. 453-466., Registrované v: WOS
3. [1.1] JUIKAR, Siddhi J. - VIGNESHWARAN, N. Extraction of nanolignin from coconut fibers by controlled microbial hydrolysis. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 109, no., pp. 420-425., Registrované v: WOS
4. [1.1] KIRSCHWENG, B. - TATRAALJAI, D. - FOLDES, E. - PUKANSZKY, B. Natural antioxidants as stabilizers for polymers. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 145, no., pp. 25-40., Registrované v: WOS

ADCA378 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. ISSN 1336-4561.

Citácie:

1. [1.1] JABLONSKY, M. - NOSALOVA, J. - SLADKOVA, A. - HAZ, A. - KREPS, F. - VALKA, J. - MIERTUS, S. - FRECEK, V. - ONDREJOVIC, M. - SIMA, J. - SURINA, I. Valorisation of softwood bark through extraction of utilizable chemicals. A review. In *BIOTECHNOLOGY ADVANCES*. ISSN 0734-9750, 2017, vol. 35, no. 6, pp. 726-750., Registrované v: WOS

ADCA379 KOŠÍKOVÁ, Božena - ĎURIŠ, M. - DEMIANOVÁ, V. Conversion of lignin biopolymer into surface-active derivatives. In *European Polymer Journal*, 2000, vol. 36, p. 1209-1212. (0.720 - IF1999). (2000 - Current Contents). ISSN 0014-3057.

Citácie:

1. [1.1] SIPPONEN, Mika Henrikki - SMYTH, Matthew - LESKINEN, Timo - JOHANSSON,

Leena-Sisko - OSTERBERG, Monika. All-lignin approach to prepare cationic colloidal lignin particles: stabilization of durable Pickering emulsions. In GREEN CHEMISTRY. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5831-5840., Registrované v: WOS

2. [1.1] SUN, Hong - LIU, Qiang - CHEN, Shuyan - YAN, Xiang - DAI, Lingmei - ZHOU, Yujie - ZHANG, Jianan. Study on synthesis and performance of lignin polyether sulfonate surfactants for enhanced oil recovery. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2017, vol. 38, no. 8, pp. 1124-1128., Registrované v: WOS

3. [1.1] SUN, Hong - LIU, Qiang - CHEN, Shuyan - YAN, Xiang - DAI, Lingmei - ZHOU, Yujie - ZHANG, Jianan. Study on the synthesis and performance of lignin polyether sulfonate surfactants for enhanced oil recovery. In JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY. ISSN 0193-2691, 2017, vol. 38, no. 9, pp. 1355-1359., Registrované v: WOS

ADCA380

KOŠŤÁLOVÁ, 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. (3.479 - IF2012). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] ASAD, Mohammad - BRAHIM, Marwa - ZIEGLER-DEVIN, Isabelle - BOUSSETTA, Nadia - BROSE, Nicolas. Chemical Characterization of Non-Saccharidic and Saccharidic Components of Rapeseed Hulls and Sunflower Shells. In BIORESOURCES. ISSN 1930-2126, 2017, vol. 12, no. 2, pp. 3143-3153., Registrované v: WOS

2. [1.1] COLODEL, Cristiane - DAS GRACAS BAGATIN, Rosane Maria - TAVARES, Talita Maria - DE OLIVEIRA PETKOWICZ, Carmen Lucia. Cell wall polysaccharides from pulp and peel of cubiu: A pectin-rich fruit. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 226-234., Registrované v: WOS

3. [1.1] HUANG, Chao - CAO, Xiyue - CHEN, Xingfu - FU, Yuping - ZHU, Yingguo - CHEN, Zhengli - LUO, Qihui - LI, Lixia - SONG, Xu - JIA, Renyong - YIN, Zhongqiong - FENG, Bin - ZOU, Yuanfeng. A pectic polysaccharide from *Ligusticum chuanxiong* promotes intestine antioxidant defense in aged mice. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 174, no., pp. 915-922., Registrované v: WOS

4. [1.1] LEH, Daniele Stock - BIZ, Alessandra - DE PAULA, D. H. F. - RICHARD, Peter - GONCALVES, Alan Guilherme - NOSEDA, Miguel Daniel - MITCHELL, David Alexander - KRIEGER, Nadia. Conversion of citric pectin into D-galacturonic acid with high substrate loading using a fermented solid with pectinolytic activity. In BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY. ISSN 1878-8181, 2017, vol. 11, no., pp. 214-219., Registrované v: WOS

5. [1.1] LI, Qiu - FENG, Yanxian - HE, Wei - WANG, Lintao - WANG, Ruibing - DONG, Lei - WANG, Chunming. Post-screening characterisation and in vivo evaluation of an anti-inflammatory polysaccharide fraction from *Eucommia ulmoides*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 304-314., Registrované v: WOS

6. [1.1] WANG, Ruhai - ZHU, Xiaofang - QIAN, Wei - HONG, Zhineng - TANG, Haoye - XU, Renkou - YU, Yuanchun. Pectin adsorption on amorphous Fe/Al hydroxides and its effect on surface charge properties and Cu(II) adsorption. In JOURNAL OF SOILS AND SEDIMENTS. ISSN 1439-0108, 2017, vol. 17, no. 10, pp. 2481-2489., Registrované v: WOS

7. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

8. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvald - INNGJERDINGEN, Kari Tvete - HUANG, Chao - ETICHA, Lemlem Dugassa - SONG, Xu - LI, Lixia - FENG, Bin - HE, Chang-Liang - YIN, Zhong-Qiong - PAULSEN, Berit Smestad. Purification and Partial Structural Characterization of a Complement Fixating Polysaccharide from Rhizomes of *Ligusticum chuanxiong*. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS

9. [1.1] ZOU, Yuan-Feng - FU, Yu-Ping - CHEN, Xing-Fu - AUSTARHEIM, Ingvald - INNGJERDINGEN, Kari Tvete - HUANG, Chao - LEI, Fei-Yi - SONG, Xu - LI, Lixia - YE, Gang - ETICHA, Lemlem Dugassa - YIN, Zhongqiong - PAULSEN, Berit Smestad. Polysaccharides with immunomodulating activity from roots of *Gentiana crassicaulis*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 172, no., pp. 306-314., Registrované v: WOS

ADCA381

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. (2.103 - IF2009). (2010 - Current Contents). ISSN 0926-6690.

Citácie:

1. [1.1] KAUR, Navpreet - KISHORE, Lalit - SINGH, Randhir. Attenuation of STZ-induced

- diabetic nephropathy by *Cucurbita pepo* L. seed extract characterized by GCMS. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2017, vol. 41, no. 6, pp., Registrované v: WOS
2. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS
- ADCA382 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. (2.468 - IF2012). (2013 - Current Contents). ISSN 0926-6690.
- Citácie:
1. [1.1] SMIRNOV, Vasily V. - GOLOVCHENKO, Victoria V. - VITYAZEV, Fedor V. - PATOVA, Olga A. - SELIVANOV, Nikolay Yu - SELIVANOVA, Olga G. - POPOV, Sergey V. The Antioxidant Properties of Pectin Fractions Isolated from Vegetables Using a Simulated Gastric Fluid. In *JOURNAL OF CHEMISTRY*. ISSN 2090-9063, 2017, vol., no., pp., Registrované v: WOS
2. [1.1] WANG, Libo - LIU, Fangcheng - WANG, Aoxue - YU, Zeyuan - XU, Yaqin - YANG, Yu. Purification, characterization and bioactivity determination of a novel polysaccharide from pumpkin (*Cucurbita moschata*) seeds. In *FOOD HYDROCOLLOIDS*. ISSN 0268-005X, 2017, vol. 66, no., pp. 357-364., Registrované v: WOS
- ADCA383 KOVÁCS, László - HLAVATÁ, A. - BALDOVIČ, Marián - PAULOVÍČOVÁ, Ema - DALLOS, Tomáš - FÉHERVÍZIOVÁ, Zuzana - KÁDAŠI, Edevit. Elevated immunoglobulin D levels in children with PFAPA syndrome. In *Neuroendocrinology Letters*, 2010, vol. 31, p. 101-104. (1.047 - IF2009). ISSN 0172-780X.
- Citácie:
1. [1.1] KISAARSLAN, Aysenur Pac - UNSUR, Emel Kabakoglu - SOZERI, Betul. Current Diagnosis and Treatment Models of Periodic Fever, Aphthous Stomatitis, Pharyngitis and Cervical Lymphadenitis Syndrome. In *JOURNAL OF PEDIATRIC RESEARCH*. ISSN 2147-9445, 2017, vol. 4, no. 2, pp. 42-45., Registrované v: WOS
- ADCA384 KOVÁČIK, Vladimír - PĀTOPRSTÝ, Vladimír - OKSMAN, P. - MISTRÍK, R. - KOVÁČ, P. Electron ionization mass spectrometric study of monomeric models of O-polysaccharides of *Vibrio cholerae* O:1, serotypes Ogawa and Inaba. In *Journal of Mass Spectrometry*, 2003, vol. 38, p. 924-930. (2003 - Current Contents). ISSN 1076-5174.
- Citácie:
1. [1.1] SAINT HILAIRE, Pierre Barbier - WARNET, Anna - GIMBERT, Yves - HOHENESTER, Ulli Martin - GIORGI, Gianluca - OLIVIER, Marie-Francoise - FENAILLE, Francois - COLSCH, Benoit - JUNOT, Christophe - TABET, Jean-Claude. Mechanistic study of competitive releases of H₂O, NH₃ and CO₂ from deprotonated aspartic and glutamic acids: Role of conformation. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2017, vol. 1047, no., pp. 64-74., Registrované v: WOS
- ADCA385 KOVÁČ, P. - HIRSCH, Ján - SHASHKOV, A.S. - USOV, A.I. - YAROTSKY, S.V. 13C-NMR spectra of xylooligosaccharides and their application to the elucidation of xylan structure. In *Carbohydrate Research*, 1980, vol. 85, p. 177-185. ISSN 0008-6215.
- Citácie:
1. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Isolation and characterization of a xylan with industrial and biomedical applications from edible acai berries (*Euterpe oleracea*). In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1595-1597., Registrované v: WOS
2. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Structural diversity of alkali-soluble polysaccharides from the fruit cell walls of tucuma (*Astrocaryum aculeatum*), a commelinid monocotyledon from the family Arecaceae. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 118, no., pp. 356-361., Registrované v: WOS
- ADCA386 KOVÁČ, Pavol - HIRSCH, Ján. Systematic synthesis of (1→4)-β-D-xylooligosaccharides and their methyl β-glycosides. In *Carbohydrate Research*, 1981, vol. 90, c5-C7. ISSN 0008-6215.
- Citácie:
1. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In *Chemical Reviews*. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS
- ADCA387 KOVÁČ, Pavol - HIRSCH, Ján. Sequential synthesis of 13C-NMR spectra of methyl-β-glycosides of (1→4)-β-D-xylo-oligosaccharides. In *Carbohydrate Research*, 1982, vol. 100, p. 177. ISSN 0008-6215.
- Citácie:

1. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. *Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In Chemical Reviews. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS*
- ADCA388 KOVÁČ, Pavol - PETRÍKOVÁ, M. Alternative syntheses of methylated sugars. Part III. Methyl furanosides of 3-O-methyl- and 2,3-di-O-methyl-D-xylose. In *Carbohydrate Research*, 1971, vol. 19, p. 249-251. ISSN 0008-6215.
Citácie:
1. [1.2] CORKRAN, Hilary M. - DANGERFIELD, Emma M. - HASLETT, Gregory W. - STOCKER, Bridget L. - TIMMER, Mattie S.M. *Synthesis and anti-tuberculosis activity of glycitylamines. In Bioorganic and Medicinal Chemistry. ISSN 09680896, 2016-02-15, 24, 4, pp. 693-702., Registrované v: SCOPUS*
- ADCA389 KOVÁČ, Pavol - HIRSCH, Ján - KOVÁČIK, Vladimír - PETRÁKOVÁ, Eva. Synthesis and reactions of uronic acid derivatives. XIX. The stepwise synthesis of an aldopentauronic acid related to branched (4-O-methylglucurono) xylans. In *Carbohydrate Research*, 1980, vol. 85, p. 41-49. ISSN 0008-6215.
Citácie:
1. [1.2] KINNAERT, Christine - DAUGAARD, Mathilde - NAMI, Faranak - CLAUSEN, Mads H. *Chemical Synthesis of Oligosaccharides Related to the Cell Walls of Plants and Algae. In Chemical Reviews. ISSN 00092665, 2017-09-13, 117, 17, pp. 11337-11405., Registrované v: SCOPUS*
- ADCA390 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Vojtech - 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. (5.476 - IF2010). (2011 - Current Contents). ISSN 0947-6539.
Citácie:
1. [1.1] LEHNHERR, Dan - ADAM, Matthias - MURRAY, Adrian H. - MCDONALD, Robert - HAMPEL, Frank - TYKWINSKI, Rik R. *Synthesis, physical properties, and chemistry of donor-acceptor-substituted pentacenes. In CANADIAN JOURNAL OF CHEMISTRY. ISSN 0008-4042, 2017, vol. 95, no. 3, pp. 303-314., Registrované v: WOS*
- ADCA391 KOZMON, Stanislav - MATUŠKA, Radek - SPIWOK, Vojtech - 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. (3.453 - IF2010). (2011 - Current Contents). ISSN 1463-9076.
Citácie:
1. [1.1] HAYASHI, Satoko - SUGIBAYASHI, Yuji - NAKANISHI, Waro. *Behavior of interactions between hydrogen chalcogenides and an anthracene π-system elucidated by QTAIM dual functional analysis with QC calculations. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 51, pp. 31858-31865., Registrované v: WOS*
- ADCA392 KRAMÁROVÁ, Z. - ALEX, P. - CHODÁK, Ivan - ŠPIRK, E. - HUDEC, I. - KOŠÍKOVÁ, Božena - GREGOROVÁ, Anna - ŠÚRI, P. - FERANČ, J. - BUGAJ, P. - ĎURAČKA, M. Biopolymers as fillers for rubber blends. In *Polymers for Advanced Technologies*, 2007, vol. 18, p. 132-140. (1.406 - IF2006). (2007 - Current Contents). ISSN 1042-7147.
Citácie:
1. [1.1] JOY, J. - JOSE, C. - YU, X.Y. - MATHEW, L. - THOMAS, S. - PILLA, S. *The influence of nanocellulosic fiber, extracted from Helicteres isora, on thermal, wetting and viscoelastic properties of poly(butylene succinate) composites. In CELLULOSE. ISSN 0969-0239, OCT 2017, vol. 24, no. 10, p. 4313-4323., Registrované v: WOS*
2. [1.2] MOKHOTHU, T.H-JOHN, M.J. *Bio-based fillers for environmentally friendly composites. (2017) Handbook of Composites from Renewable Materials, 1-8, p. 243-270., Registrované v: Scopus*
- ADCA393 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. [1.1] VISHWANATHA, Akshay - D';SOUZA, Cletus J. M. - SCHWEINGRUBER, Martin E. *Genes Controlling 2-deoxyglucose Induced Lysis and Formation of Reactive Oxygen Species in Schizosaccharomyces pombe. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331, 2017, vol. 66, no. 3, pp. 393-396., Registrované v: WOS*
2. [1.1] VISHWANATHA, Akshay - D';SOUZA, Cletus Joseph Michael. *Multifaceted Effects of Antimetabolite and Anticancer Drug, 2-Deoxyglucose on Eukaryotic Cancer Models Budding and Fission Yeast. In IUBMB LIFE. ISSN 1521-6543, 2017, vol. 69, no. 3, pp. 137-147., Registrované v: WOS*

- ADCA394 KREMnický, Ľubomír - BIELY, Peter. Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase. In *Journal of Molecular Catalysis B - Enzymatic*, 2005, vol. 37, p. 72-78. ISSN 1381-1177.
Citácie:
1. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
2. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
- ADCA395 KREMnický, Ľubomír - BIELY, Peter. Disaccharide permeases - constituents of xylanolytic and mannanolytic systems of *Aureobasidium pullulans*. In *Biochimica et Biophysica Acta*, 1998, vol. 1425, p. 560-566.
Citácie:
1. [1.1] CHAUHAN, Prakram Singh - GUPTA, Naveen. Insight into microbial mannosidases: a review. In *CRITICAL REVIEWS IN BIOTECHNOLOGY*. ISSN 0738-8551, 2017, vol. 37, no. 2, pp. 190-201., Registrované v: WOS
2. [1.1] NATHAN, Vinod Kumar - RANI, Mary Esther - RATHINASAMY, Gunaseeli - DHIRAVIAM, Kannan Narayanan. Low Molecular Weight Xylanase from *Trichoderma viride* VKF3 for Bio-bleaching of Newspaper Pulp. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 3, pp. 5264-5278., Registrované v: WOS
- ADCA396 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.
Citácie:
1. [1.1] KANELLI, Maria - TOPAKAS, Evangelos. Acylation of soluble polysaccharides in a biphasic system catalyzed by a CE2 acetyl esterase. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 163, no., pp. 208-215., Registrované v: WOS
- ADCA397 KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Z. - ŠANDULA, Jozef - SASINKOVÁ, Vlasta - KRAJČOVIČ, J. Antioxidative and antimutagenic activity of yeast cell wall mannans in vitro. In *Mutation Research*, 2001, vol. 497, p. 213-222. ISSN 1568-7864.
Citácie:
1. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Padraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY*. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS
2. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENTKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS
3. [1.1] LI, Xiaohan - CHEN, Y. P. - CHENG, Y. F. - WEN, C. - ZHOU, Y. M. Effects of dietary supplementation with yeast cell wall, palygorskite and their combination on the growth performance, meat quality, muscular antioxidant ability and mineral element content of broilers. In *EUROPEAN POULTRY SCIENCE*. ISSN 1612-9199, 2017, vol. 81, no., pp., Registrované v: WOS
4. [1.1] Pawar, Mahesh M.; Pattanaik, Ashok K.; Sinha, Dharmendra K.; Goswami, Tapas K.; Sharma, Kusumakar. Effect of dietary mannanoligosaccharide supplementation on nutrient digestibility, hindgut fermentation, immune response and antioxidant indices in dogs. In: *Journal of Animal Science and Technology* Vol. 59 (2017), Article No.: 11, Registrované v: WOS
5. [1.1] SABER, Amir - ALIPOUR, Beitollah - FAGHFOORI, Zeinab - KHOSROUSHAHI, Ahmad Yari. Cellular and molecular effects of yeast probiotics on cancer. In *CRITICAL REVIEWS IN MICROBIOLOGY*. ISSN 1040-841X, 2017, vol. 43, no. 1, pp. 96-115., Registrované v: WOS
6. [1.1] SKORIK, Yury A. - KRITCHENKOV, Andreii S. - MOSKALENKO, Yulia E. - GOLYSHEV, Anton A. - RAIK, Sergei V. - WHALEY, Andrei K. - VASINA, Lyubov V. - SONIN, Dmitry L. Synthesis of N-succinyl- and N-glutaryl-chitosan derivatives and their antioxidant, antiplatelet, and anticoagulant activity. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 166, no., pp. 166-172., Registrované v: WOS
7. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA, Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In *SECONDARY ENDOSYMBIOSES*. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS
- ADCA398 KRIŽKOVÁ, Livia - ŽITŇANOVÁ, I. - MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana -

SASINKOVÁ, Vlasta - ĎURAČKOVÁ, Z. - KRAJČOVIČ, J. Antioxidant and antimutagenic activity of mannan neoglycoconjugates: Mannan-human serum albumine and mannan-penicillin G acylase. In Mutation research-genetic toxicology and environmental mutagenesis, 2006, vol. 606, p. 72-79. ISSN 1383-5718.

Citácie:

1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
2. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
3. [1.1] MELLO, M. B. - MACHADO, C. S. - RIBEIRO, D. L. - AISSA, A. F. - BURIM, R. V. - ALVES DA CUNHA, M. A. - BARCELOS, G. R. M. - ANTUNES, L. M. G. - BIANCHI, M. L. P. Protective effects of the exopolysaccharide Lasiodiplodan against DNA damage and inflammation induced by doxorubicin in rats: Cytogenetic and gene expression assays. In TOXICOLOGY. ISSN 0300-483X, 2017, vol. 376, no., pp. 66-74., Registrované v: WOS
4. [1.1] VANCLOVA, Anna M. G. - HADARIOVA, Lucia - HRDA, Stepanka - HAMPL, Vladimir. Secondary Plastids of Euglenophytes. In SECONDARY ENDOSYMBIOSES. ISSN 0065-2296, 2017, vol. 84, no., pp. 321-358., Registrované v: WOS
5. [1.2] USATII, Agafia - BEJENARU, Ludmila. Reaction of *Saccharomyces cerevisiae* yeast strain to the action of TiO₂ nanoparticles. In Analele Universitatii din Oradea, Fascicula Biologie. ISSN 12245119, 2017-01-01, 24, 1, pp. 25-29., Registrované v: SCOPUS

ADCA399

KRIŽKOVÁ, Livia - ĎURAČKOVÁ, Zdena - ŠANDULA, Jozef - SLAMEŇOVÁ, Darina - SASINKOVÁ, Vlasta - SIVOŇOVÁ, Monika - KRAJČOVIČ, Juraj. Fungal beta-(1-3)-D-glucan derivatives exhibit high antioxidative and antimutagenic activity in vitro. In Anticancer Research : International Journal of Cancer Research and Treatment. - Athens : J. G. Delinassios, 2003, vol. 23, no. 3B, p. 2751-2756. ISSN 0250-7005.

Citácie:

1. [1.1] BEZERRA, Lorena Soares - MAGNANI, Marciane - HERNAN CASTRO-GOMEZ, Raul Jorge - CAVALCANTE, Hassler Clementino - FELISBERTO DA SILVA, Tays Amanda - PAIXAO VIEIRA, Renata Layne - DE MEDEIROS, Isac Almeida - VERAS, Robson Cavalcante. Modulation of vascular function and anti-aggregation effect induced by (1 → 3) (1 → 6)-(beta-D-glucan of *Saccharomyces cerevisiae* and its carboxymethylated derivative in rats. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2017, vol. 69, no. 3, pp. 448-455., Registrované v: WOS

ADCA400

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. (2.325 - IF2010). (2011 - Current Contents). ISSN 0957-4530.

Citácie:

1. [1.1] BOERMAN, Marcel A. - ROOZEN, Edwin - SANCHEZ-FERNANDEZ, Maria Jose - KEEREWEER, Abraham R. - LANAO, Rosa P. Felix - BENDER, Johan C. M. E. - HOOGENBOOM, Richard - LEEUWENBURGH, Sander C. - JANSEN, John A. - VAN GOOR, Harry - VAN HEST, Jan C. M. Next Generation Hemostatic Materials Based on NHS-Ester Functionalized Poly(2-oxazoline)s. In BIOMACROMOLECULES. ISSN 1525-7797, 2017, vol. 18, no. 8, pp. 2529-2538., Registrované v: WOS
2. [1.1] HARTLIEB, Matthias - BUS, Tanja - KUEBEL, Joachim - PRETZEL, David - HOEPPENER, Stephanie - LEISKE, Meike N. - KEMPE, Kristian - DIETZEK, Benjamin - SCHUBERT, Ulrich S. Tailoring Cellular Uptake and Fluorescence of Poly(2-oxazoline)-Based Nanogels. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, 2017, vol. 28, no. 4, pp. 1229-1235., Registrované v: WOS
3. [1.1] HARTLIEB, Matthias - FLOYD, Thomas - COOK, Alexander B. - SANCHEZ-CANO, Carlos - CATROUILLET, Sylvain - BURNS, James A. - PERRIER, Sebastien. Well-defined hyperstar copolymers based on a thiol-yne hyperbranched core and a poly(2-oxazoline) shell for biomedical applications. In POLYMER CHEMISTRY. ISSN 1759-9954, 2017, vol. 8, no. 13, pp. 2041-2054., Registrované v: WOS
4. [1.1] KEMPE, Kristian. Chain and Step Growth Polymerizations of Cyclic Imino Ethers: From Poly(2-oxazoline)s to Poly(ester amide)s. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2017, vol. 218, no. 11, pp., Registrované v: WOS
5. [1.1] LEISKE, Meike N. - TRUETZSCHLER, Anne-Kristin - ARMONEIT, Sabine - SUNGUR,

- Pelin - HOEPPENER, Stephanie - LEHMANN, Marc - TRAEGER, Anja - SCHUBERT, Ulrich S. Mission ImPOxable or the unknown utilization of non-toxic poly(2-oxazoline)s as cryoprotectants and surfactants at the same time. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, 2017, vol. 5, no. 46, pp. 9102-9113., Registrované v: WOS*
6. [1.1] PAN, Xianfu - LIU, Yaya - LI, Zhenjiang - CUI, Saide - GEERU, Hailemariam - XU, Jiayi - XU, Songquan - LIU, Jiaqi - GUO, Kai. Amphiphilic Polyoxazoline-block-Polypeptoid Copolymers by Sequential One-Pot Ring-Opening Polymerizations. In MACROMOLECULAR CHEMISTRY AND PHYSICS. ISSN 1022-1352, 2017, vol. 218, no. 6, pp., Registrované v: WOS
7. [1.2] MAO, Juan - LI, Jian Ming - DING, Jin Song. The application of poly(2-ethyl-2-oxazoline) in drug delivery system. In Yaoxue Xuebao. ISSN 05134870, 2017-01-01, 52, 8, pp. 1235-1240., Registrované v: SCOPUS
- ADCA401 KRONEK, Juraj - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - KRONEKOVÁ, Zuzana - LUSTOŇ, Jozef. Immunomodulatory efficiency of poly(2-oxazolines). In Journal of Materials Science: Materials in Medicine, 2012, vol. 23, no. 6, p. 1457-1464. (2.316 - IF2011). (2012 - Current Contents). ISSN 0957-4530.
- Citácie:
1. [1.1] BOERMAN, M.A. - ROOZEN, E. - SANCHEZ-FERNANDEZ, M.J. - KEEREWEER, A.R. - LANAO, R.P.F. - BENDER, J.C.M.E. - HOOGENBOOM, R. - LEEUWENBURGH, S.C. - JANSEN, J.A. - VAN GOOR, H. - VAN HEST, J.C.M. Next Generation Hemostatic Materials Based on NHS-Ester Functionalized Poly(2-oxazoline)s. In BIOMACROMOLECULES. ISSN 1525-7797, AUG 2017, vol. 18, no. 8, p. 2529-2538., Registrované v: WOS
2. [1.1] HARTLIEB, M. - BUS, T. - KUBEL, J. - PRETZEL, D. - HOEPPENER, S. - LEISKE, M.N. - KEMPE, K. - DIETZEK, B. - SCHUBERT, U.S. Tailoring Cellular Uptake and Fluorescence of Poly(2-oxazoline)-Based Nanogels. In BIOCONJUGATE CHEMISTRY. ISSN 1043-1802, APR 2017, vol. 28, no. 4, p. 1229-1235., Registrované v: WOS
3. [1.1] HARTLIEB, M. - FLOYD, T. - COOK, A.B. - SANCHEZ-CANO, C. - CATROUILLET, S. - BURNS, J.A. - PERRIER, S. Well-defined hyperstar copolymers based on a thiol-yne hyperbranched core and a poly(2-oxazoline) shell for biomedical applications. In POLYMER CHEMISTRY. ISSN 1759-9954, APR 4 2017, vol. 8, no. 13, p. 2041-2054., Registrované v: WOS
4. [1.2] LEISKE, M.N. - TRÜTZSCHLER, A.K. - ARMONEIT, S. - SUNGUR, P. - HOEPPENER, S. - LEHMANN, M. - TRAEGER, A. - SCHUBERT, U.S. Mission ImPOxable-or the unknown utilization of non-toxic poly(2-oxazoline)s as cryoprotectants and surfactants at the same time. (2017) Journal of Materials Chemistry B, 5 (46), p. 9102-9113., Registrované v: Scopus
5. [1.2] MAO, J. - LI, J.M. - DING, J.S. The application of poly(2-ethyl-2-oxazoline) in drug delivery system. (2017) Yaoxue Xuebao, 52 (8), p. 1235-1240., Registrované v: Scopus
- ADCA402 KRONEK, Juraj - LUSTOŇ, Jozef - KRONEKOVÁ, Zuzana - PAULOVÍČOVÁ, Ema - FARKAŠ, Pavol - PETRENČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Lucia - JANIGOVA, 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. (1.955 - IF2009). (2010 - Current Contents). ISSN 0957-4530.
- Citácie:
1. [1.1] KOSAKOWSKA, K.A. - DIMITROV, P. - PANAMBUR, G. - GRAYSON, S.M. MALDI-TOF MS Investigation of the Unconventional Termination of Living Polyoxazoline with Ammonia. In JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY. ISSN 0887-624X, APR 15 2017, vol. 55, no. 8, p. 1303-1312., Registrované v: WOS
2. [1.1] LORSON, T. - JAKSCH, S. - LUBTOW, M.M. - JUNGST, T. - GROLL, J. - LUHMANN, T. - LUXENHOFER, R. A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink. In BIOMACROMOLECULES. ISSN 1525-7797, JUL 2017, vol. 18, no. 7, p. 2161-2171., Registrované v: WOS
- ADCA403 KRONEKOVÁ, Zuzana - MIKULEC, Marcel - PETRENČÍKOVÁ, Nadežda - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - JANČINOVÁ, Viera - NOSÁĽ, 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. (3.680 - IF2015). (2016 - Current Contents). ISSN 1616-5187.
- Citácie:
1. [1.2] WILSON, P. - KE, P.C. - DAVIS, T.P. - KEMPE, K. Poly(2-oxazoline)-based micro- and nanoparticles: A review. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 88, p. 486-515., Registrované v: SCOPUS
- ADCA404 KRUPÍČKA, 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. (4.189 - IF2008). (2009 - Current Contents). ISSN 1520-6106.
- Citácie:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. *Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B.* ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] KANG, Jiyoung - KINO, Hiori - FIELD, Martin J. - TATENO, Masaru. *Electronic Structure Rearrangements in Hybrid Ribozyme/Protein Catalysis. In JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN.* ISSN 0031-9015, 2017, vol. 86, no. 4, pp., Registrované v: WOS
- ADCA405 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. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] BENE, Krisztian P. - KAVANAUGH, Devon W. - LECLAIRE, Charlotte - GUNNING, Allan P. - MACKENZIE, Donald A. - WITTMANN, Alexandra - YOUNG, Ian D. - KAWASAKI, Norihito - RAJNAVOLGYI, Eva - JUGE, Nathalie. *Lactobacillus reuteri Surface Mucus Adhesins Upregulate Inflammatory Responses Through Interactions With Innate C-Type Lectin Receptors. In FRONTIERS IN MICROBIOLOGY.* ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] CASTRO-BRAVO, Nuria - HIDALGO-CANTABRANA, Claudio - RODRIGUEZ-CARVAJAL, Miguel A. - RUAS-MADIEDO, Patricia - MARGOLLES, Abelardo. *Gene Replacement and Fluorescent Labeling to Study the Functional Role of Exopolysaccharides in Bifidobacterium animalis subsp lactis. In FRONTIERS IN MICROBIOLOGY.* ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] GU, Li-Xia - WEN, Zheng-Shun - XIANG, Xing-Wei - MA, Li - WANG, Xiao-Bo - MA, Jian-Yin - QU, You-Le. *Immunomodulatory effect of low molecular-weight seleno-aminopolysaccharides in intestinal epithelial cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES.* ISSN 0141-8130, 2017, vol. 99, no., pp. 570-577., Registrované v: WOS
4. [1.1] HUGHES, K. R. - HARNISCH, L. C. - ALCON-GINER, C. - MITRA, S. - WRIGHT, C. J. - KETSKEMETY, J. - VAN SINDEREN, D. - WATSON, A. J. M. - HALL, L. J. *Bifidobacterium breve reduces apoptotic epithelial cell shedding in an exopolysaccharide and MyD88-dependent manner. In OPEN BIOLOGY.* ISSN 2046-2441, 2017, vol. 7, no. 1, pp., Registrované v: WOS
5. [1.1] OLEKSY, Magdalena - KLEWICKA, Elzbieta. *Capsular Polysaccharides of Lactobacillus spp.: Theoretical and Practical Aspects of Simple Visualization Methods. In PROBIOTICS AND ANTIMICROBIAL PROTEINS.* ISSN 1867-1306, 2017, vol. 9, no. 4, pp. 425-434., Registrované v: WOS
- ADCA406 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. (3.302 - IF2014). (2015 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.
- Citácie:
1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. *Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B.* ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] HU, Chia-Wei - WORTH, Matthew - FAN, Dacheng - LI, Baobin - LI, Hao - LU, Lei - ZHONG, Xiaofang - LIN, Ziqing - WEI, Liming - GE, Ying - LI, Lingjun - JIANG, Jiaoyang. *Electrophilic probes for deciphering substrate recognition by O-GlcNAc transferase. In NATURE CHEMICAL BIOLOGY.* ISSN 1552-4450, 2017, vol. 13, no. 12, pp. 1267-+, Registrované v: WOS
3. [1.1] MONTGOMERY, Andrew P. - XIAO, Kela - WANG, Xingyong - SKROPETA, Danielle - YU, Haibo. *Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. In STRUCTURAL AND MECHANISTIC ENZYMOLOGY.* ISSN 1876-1623, 2017, vol. 109, no., pp. 25-76., Registrované v: WOS
4. [1.1] SOUSA, Sergio Filipe - RIBEIRO, Antnio J. M. - NEVES, Rui P. P. - BRAS, Natércia F. - CERQUEIRA, Nuno M. F. S. A. - FERNANDES, Pedro A. - RAMOS, Maria Joao. *Application of quantum mechanics/molecular mechanics methods in the study of enzymatic reaction mechanisms. In WILEY INTERDISCIPLINARY REVIEWS-COMPUTATIONAL MOLECULAR SCIENCE.* ISSN 1759-0876, 2017, vol. 7, no. 2, pp., Registrované v: WOS
- ADCA407 KUTSCHY, P. - SUCHÝ, M. - ANDREANI, A. - DZURILLA, M. - KOVÁČIK, Vladimír -

ALFOLDI, Juraj - ROSSI, M. - GRAMATOVÁ, M. A new approach to the synthesis of rare thiazino(6,5-b)indol-4-one derivatives First total synthesis of the indole phytoalexin cyclobassinon. In *Tetrahedron*, 2002, vol. 58, p. 9029-9039. ISSN 0040-4020.

Citácie:

1. [1.1] CSOMOS, Peter - FODOR, Lajos - ZUPKO, Istvan - CSAMPAI, Antal - SOHAR, Pal. Synthesis and in vitro antiproliferative effect of isomeric analogs of cyclobassinin phytoalexin possessing the 1,3-thiazino[5,6-b]indole-4-one skeleton. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 1-11., Registrované v: WOS

ADCA408

KVAM, B.J. - FRAGONAS, E. - DEGRASSI, A. - KVAM, C. - MATULOVÁ, Mária - POLLESELLO, P. - ZANETTI, F. - VITTUR, F. Oxygen-derived free-radical (ODFR) action on hyaluronan (HA), on 2 HA ester derivatives, and on the metabolism of articular chondrocytes. In *Experimental Cell Research*, 1995, vol. 218, p. 79-86. ISSN 0014-4827.

Citácie:

1. [1.2] CASALE, M. - MOFFA, A. - VELLA, P. - RINALDI, V. - LOPEZ, M. A. - GRIMALDI, V. - SALVINELLI, F. Systematic review: The efficacy of topical hyaluronic acid on oral ulcers. In *Journal of Biological Regulators and Homeostatic Agents*. ISSN 0393974X, 2017-01-01, 31, 4, pp. 63-69., Registrované v: SCOPUS

ADCA409

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. (2.532 - IF2007). ISSN 0021-8561.

Citácie:

1. [1.1] FALLICO, Biagio - BALLISTRERI, Gabriele - ARENA, Elena - BRIGHINA, Selina - RAPISARDA, Paolo. Bioactive compounds in blood oranges (*Citrus sinensis* (L.) Osbeck): Level and intake. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 215, no., pp. 67-75., Registrované v: WOS

2. [1.1] LI, Xing-Nuo - SUN, Jianghao - SHI, Haiming - YU, Lucy (Liangli) - RIDGE, Clark D. - MAZZOLA, Eugene P. - OKUNJI, Christopher - IWU, Maurice M. - MICHEL, Tchimine Kenne - CHEN, Pei. Profiling hydroxycinnamic acid glycosides, iridoid glycosides, and phenylethanoid glycosides in baobab fruit pulp (*Adansonia digitata*). In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2017, vol. 99, no., pp. 755-761., Registrované v: WOS

3. [1.1] LI, Y. - ZHU, Y. - LIANG, R. - YANG, C. Synthesis and antioxidant properties of caffeic acid corn bran arabinoxylan esters. In *INTERNATIONAL JOURNAL OF COSMETIC SCIENCE*. ISSN 0142-5463, 2017, vol. 39, no. 4, pp. 402-410., Registrované v: WOS

4. [1.1] SHIMOTORI, Yasutaka - HOSHI, Masayuki - OSAWA, Yosuke - MIYAKOSHI, Tetsuo. Synthesis of various beta-D-glucopyranosyl and beta-D-xylopyranosyl hydroxybenzoates and evaluation of their antioxidant activities. In *HETEROCYCLIC COMMUNICATIONS*. ISSN 0793-0283, 2017, vol. 23, no. 3, pp. 213-223., Registrované v: WOS

5. [1.2] ZHILYAKOVA, Elena T. - NOVIKOV, Oleg O. - NOVIKOVA, Marina Y. - PISAREV, Dmitriy I. - LUPINA, Tatyana V. Chemical study of the composition and quantitative analysis of hydroxycinnamic acids in experimental samples of propolis. In *International Journal of Green Pharmacy*. ISSN 09738258, 2017-07-01, 11, 3, pp. S470-S475., Registrované v: SCOPUS

ADCA410

LÁBAJ, Juraj - SLAMENOVÁ, Darina - KOŠÍKOVÁ, Božena. Reduction of Genotoxic Effects of the Carcinogen N-Methyl-N'-Nitro-N-Nitrosoguanidine by Dietary Lignin in Mammalian Cells Cultured In Vitro. In *Nutrition and Cancer*. - Philadelphia : Lawrence Erlbaum Associates - Taylor & Francis, 2004, vol. 47, no. 1, p. 95-103. ISSN 0163-5581.

Citácie:

1. [1.2] MORGANTI, Pierfrancesco - STOLLER, Marco. Chitin and lignin: Natural ingredients from waste materials to make innovative and healthy products for humans and plant. In *Chemical Engineering Transactions*, 2017-01-01, 60, pp. 319-324., Registrované v: SCOPUS

ADCA411

LABUDOVÁ, I. - FARKAŠ, Vladimír. Enrichment technique for the selection of catabolite-repression resistant mutants of *Trichoderma* as producers of cellulase. In *FEMS Microbiology Letters*, 1983, vol. 20, p. 211-215. ISSN 0378-1097.

Citácie:

1. [1.1] SHAHEEN, Sumera - MUSTAFA, Ghulam - JAMIL, Amer. Hyperexpression of xylanase from 2-deoxyglucose (2-DG) resistant mutant of *Chaetomium thermophilum*. In *JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN*. ISSN 0253-5106, 2017, vol. 39, no. 4, pp. 695-700., Registrované v: WOS

ADCA412

LABUDOVÁ, I. - FARKAŠ, Vladimír - BAUER, Štefan - KOLAROVA, Nadežda - BRANYIK, A. Characterization of cellulolytic enzyme complexes obtained from mutants of *Trichoderma reesei* with enhanced cellulase production. In *European Journal of Applied Microbiology and Biotechnology*, 1981, vol. 12, p. 16-21.

Citácie:

1. [1.2] NEVALAINEN, K. M. Helena - PENTTILÄ, Merja E. - HARKKI, Anu - TEERI, Tuula T. -

- ADCA413 *KNOWLES, Jonathan. The molecular biology of Trichoderma and its application to the expression of both homologous and heterologous genes. In Molecular Industrial Mycology: Systems and Applications for Filamentous Fungi, 2017-01-01, pp. 129-148., Registrované v: SCOPUS*
 LÁCOVÁ, M. - LOOS, D. - FURDIK, M. - MATULOVÁ, Mária - EL-SHAER, H.M. Synthesis and reactions of new 4-oxo-4H-benzopyran-3-carboxaldehydes containing hydroxy groups or 2-oxopyran cycles. In *Molecules*, 1998, vol. 3, p. 149-158. ISSN 1420-3049.
 Citácie:
 1. [1.1] *SAJID, Muhammad Aamir - KHAN, Zulfiqar Ali - SHAHZAD, Sohail Anjum - NAQVI, Syed Ali Raza - USMAN, Muhammad - IQBAL, Ahsan. Recent advances in thymidine phosphorylase inhibitors: syntheses and prospective medicinal applications. In TURKISH JOURNAL OF CHEMISTRY. ISSN 1300-0527, 2017, vol. 41, no. 1, pp. 1-28., Registrované v: WOS*
- ADCA414 LANGER, Vratislav - KOŮŠ, Miroslav - GYEPESOVÁ, Dalma - SLÁDKOVIČOVÁ, Mariana - LUSTON, Jozef - KRONEK, Juraj. Three isomeric forms of hydroxy-phenyl-2-oxazoline: 2-(2-hydroxy-phenyl)-2-oxazoline, 2-(3-hydroxy-phenyl)-2-oxazoline and 2-(4-hydroxy-phenyl)-2-oxazoline. In *Acta Crystallographica Section C. Crystal Structure Communications*, 2005, vol. C61, no. 10, p. o602 - o606. (0.728 - IF2004). (2005 - Current Contents). ISSN 0108-2701.
 Citácie:
 1. [1.1] *BENJAMIN, H. - LIANG, J. - LIU, Y. - GENG, Y. - LIU, X.M. - ZHU, D.X. - BATSANOV, A.S. - BRYCE, M.R. Color Tuning of Efficient Electroluminescence in the Blue and Green Regions Using Heteroleptic Iridium Complexes with 2-Phenoxyoxazole Ancillary Ligands. In ORGANOMETALLICS. ISSN 0276-7333, MAY 8 2017, vol. 36, no. 9, p. 1810-1821., Registrované v: WOS*
- ADCA415 LATTOVÁ, Erika - VARMA, S. - BEZABEH, T. - PETRUŠ, Ladislav - PERREAULT, H. Mass spectrometric profiling of N-linked oligosaccharides and uncommon glycoform in mouse serum with head and neck tumor. In *Journal of the American Society for Mass Spectrometry*, 2008, vol. 19, p. 671-685.
 Citácie:
 1. [1.1] *CHEN, Huanhuan - DENG, Zaian - HUANG, Chuncui - WU, Hongmei - ZHAO, Xia - LI, Yan. Mass spectrometric profiling reveals association of N-glycan patterns with epithelial ovarian cancer progression. In TUMOR BIOLOGY. ISSN 1010-4283, 2017, vol. 39, no. 7, pp., Registrované v: WOS*
 2. [1.1] *MENG, Bo - WANG, Jun - WANG, Qianli - SERIANNI, Anthony S. - PAN, Qingfeng. Rapid assembly of branched mannose oligosaccharides through consecutive regioselective glycosylation: A convergent and efficient strategy. In TETRAHEDRON. ISSN 0040-4020, 2017, vol. 73, no. 27-28, pp. 3932-3938., Registrované v: WOS*
 3. [1.1] *VREEKER, Gerda C. M. - WUHRER, Manfred. Reversed-phase separation methods for glycan analysis. In ANALYTICAL AND BIOANALYTICAL CHEMISTRY. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS*
- ADCA416 LATTOVÁ, Erika - PERREAULT, H. - KROKHIN, O. Matrix-assisted laser desorption/ionization tandem mass spectrometry and post-source decay fragmentation study of phenylhydrazones of N-linked oligosaccharides from ovalbumin. In *Journal of the American Society for Mass Spectrometry*, 2004, vol. 15, p. 725-735.
 Citácie:
 1. [1.1] *GRAY, Christopher J. - SANCHEZ-RUIZ, Antonio - SARDZIKOVA, Ivana - AHMED, Yassir A. - MILLER, Rebecca L. - REYES MARTINEZ, Juana E. - PALLISTER, Edward - HUANG, Kun - BOTH, Peter - HARTMANN, Mirja - ROBERTS, Hannah N. - SARDZIK, Robert - MANDAL, Santanu - TURNBULL, Jerry E. - EYERS, Claire E. - FLITSCH, Sabine L. Label-Free Discovery Array Platform for the Characterization of Glycan Binding Proteins and Glycoproteins. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2017, vol. 89, no. 8, pp. 4444-4451., Registrované v: WOS*
- ADCA417 LATTOVÁ, Erika - SNOVIDA, S. - PERREAULT, H. - KROKHIN, O. Influence of the labeling group on ionization and fragmentation of carbohydrates in mass spectrometry. In *Journal of The American Society for Mass Spectrometry*, 2005, vol. 16, p. 683-696. (2005 - Current Contents). ISSN 1044-0305.
 Citácie:
 1. [1.1] *TSAI, Shang-Ting - CHEN, Jien-Lian - NI, Chi-Kung. Does low-energy collision-induced dissociation of lithiated and sodiated carbohydrates always occur at anomeric carbon of the reducing end? In RAPID COMMUNICATIONS IN MASS SPECTROMETRY. ISSN 0951-4198, 2017, vol. 31, no. 21, pp. 1835-1844., Registrované v: WOS*
 2. [1.1] *XU, Yijun - YUAN, Jian - ZHANG, Kai - HOU, Yuan - SUN, Qiu - YAO, Yingming - LI, Shaojuan - BAO, Qiaoliang - ZHANG, Han - ZHANG, Yuegang. Field-Induced n-Doping of Black Phosphorus for CMOS Compatible 2D Logic Electronics with High Electron Mobility. In*

ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2017, vol. 27, no. 38, pp.,

Registrované v: WOS

3. [1.1] ZHU, Feifei - CLEMMER, David E. - TRINIDAD, Jonathan C. Characterization of lectin binding affinities via direct LC-MS profiling: implications for glycopeptide enrichment and separation strategies. In *ANALYST. ISSN 0003-2654, 2017, vol. 142, no. 1, pp. 65-74.,*
Registrované v: WOS

4. [1.2] CHEN, Guosheng - FANG, Xu'an - CHEN, Qing - ZHANG, Jin'ge - ZHONG, Zhensong - XU, Jianqiao - ZHU, Fang - OUYANG, Gangfeng. Boronic Acid Decorated Defective Metal-Organic Framework Nanoreactors for High-Efficiency Carbohydrates Separation and Labeling. In *Advanced Functional Materials. ISSN 1616301X, 2017-10-12, 27, 38, pp., Registrované v: SCOPUS*

ADCA418 LATTOVÁ, Erika - CHEN, V.C. - VARMA, S. - BEZABEH, T. - PERREAULT, H. Matrix-assisted laser desorption/ionization on-target method for the investigation of oligosaccharides and glycosylation sites in glycopeptides and glycoproteins. In *Rapid Communications in Mass Spectrometry, 2007, vol.21, p. 1644-1650. (2007 - Current Contents). ISSN 0951-4198.*

Citácie:

1. [1.2] HOSSEINI, Samira - MARTINEZ-CHAPA, Sergio O. Principles and mechanism of MALDI-ToF-MS analysis. In *SpringerBriefs in Applied Sciences and Technology. ISSN 2191530X, 2017-01-01, 9789811023552, pp. 1-19., Registrované v: SCOPUS*

ADCA419 LATTOVÁ, Erika - BARTUSIK, Dorota - SPICER, Vic - JELLUSOVA, Julia - PERREAULT, H  lene - TOMANEK, Boguslav. Alterations in glycopeptides associated with herceptin treatment of human breast carcinoma MCF-7 and T-lymphoblastoid cells. In *Molecular and cellular proteomics, 2011, vol. 10, p. 1-11. (8.354 - IF2010). (2011 - Current Contents). ISSN 1535-9476.*

Citácie:

1. [1.1] FURUKI, Kenichiro - TOYO'OKA, Toshimasa. Retention of glycopeptides analyzed using hydrophilic interaction chromatography is influenced by charge and carbon chain length of ion-pairing reagent for mobile phase. In *BIOMEDICAL CHROMATOGRAPHY. ISSN 0269-3879, 2017, vol. 31, no. 11, pp., Registrované v: WOS*

2. [1.1] ZANGHELINI, Fernando - FRIAS, Isaac A. M. - REGO, Moacyr J. B. M. - PITTA, Maira G. R. - SACILLOTI, Marco - OLIVEIRA, Maria D. L. - ANDRADE, Cesar A. S. Biosensing breast cancer cells based on a three-dimensional TiO₂ nanomembrane transducer. In *BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 92, no., pp. 313-320., Registrované v: WOS*

3. [1.1] ZAVIALOVA, M. G. - ZGODA, V. G. - NIKOLAEV, E. N. Analysis of the Role of Protein Phosphorylation in the Development of Diseases. In *BIOCHEMISTRY MOSCOW-SUPPLEMENT SERIES B-BIOMEDICAL CHEMISTRY. ISSN 1990-7508, 2017, vol. 11, no. 3, pp. 203-218., Registrované v: WOS*

4. [1.2] ZAVIALOVA, M. G. - ZGODA, V. G. - NIKOLAEV, E. N. Analysis of contribution of protein phosphorylation in the development of the diseases. In *Biomeditsinskaya Khimiya. ISSN 23106905, 2017-01-01, 63, 2, pp. 101-114., Registrované v: SCOPUS*

ADCA420 LATTOVÁ, Erika - SVETLÍKOVÁ, Zuzana - MIKUŠOVÁ, Katarína - PERREAULT, H  lene - POLÁKOVÁ, Monika. Novel synthetic (1 → 6)-α-D-mannodisaccharide substrates support processive mannosylation catalysed by the mycobacterial cell envelope enzyme fraction. In *RSC Advances, 2013, vol. 3, p. 17784-17792. (2.562 - IF2012). (2013 - Current Contents). ISSN 2046-2069.*

Citácie:

1. [1.1] TRABONI, Serena - BEDINI, Emiliano - IADONISI, Alfonso. Solvent-Free One-Pot Diversified Protection of Saccharide Polyols Via Regioselective Tritylations. In *CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 17, pp. 4906-4911., Registrované v: WOS*

ADCA421 LATTOVÁ, Erika - TOMANEK, B. - BARTUSIK, D. - PERREAULT, H. N-Glycomic changes in human breast carcinoma MCF-7 and T-lymphoblastoid cells after treatment with Herceptin and Herceptin/Lipoplex. In *Journal of Proteome Research, 2010, vol. 9, p. 1533-1540. (5.132 - IF2009). (2010 - Current Contents). ISSN 1535-3893.*

Citácie:

1. [1.1] ZANGHELINI, Fernando - FRIAS, Isaac A. M. - REGO, Moacyr J. B. M. - PITTA, Maira G. R. - SACILLOTI, Marco - OLIVEIRA, Maria D. L. - ANDRADE, Cesar A. S. Biosensing breast cancer cells based on a three-dimensional TiO₂ nanomembrane transducer. In *BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 92, no., pp. 313-320., Registrované v: WOS*

ADCA422 LATTOVÁ, Erika - PERREAULT, H. Labelling saccharides with phenylhydrazine for electrospray and matrix-assisted laser desorption-ionization mass spectrometry. In *Journal of chromatography. B. Analytical technologies in the biomedical and life sciences, 2003, vol. 793, p. 167-179. (1.913 - IF2002). (2003 - Current Contents, MEDLINE). ISSN 1570-0232.*

Citácie:

1. [1.1] SMITH, Josh - MITTERMAYR, Stefan - VARADI, Csaba - BONES, Jonathan. *Quantitative glycomics using liquid phase separations coupled to mass spectrometry*. In *ANALYST*. ISSN 0003-2654, 2017, vol. 142, no. 5, pp. 700-720., Registrované v: WOS
2. [1.1] VEILLON, L. - ZHOU, S. - MECHREF, Y. *Quantitative Glycomics: A Combined Analytical and Bioinformatics Approach*. In *PROTEOMICS IN BIOLOGY, PT A*. ISSN 0076-6879, 2017, vol. 585, no., pp. 431-477., Registrované v: WOS
3. [1.1] VEILLON, Lucas - HUANG, Yifan - PENG, Wenjing - DONG, Xue - CHO, Byeong Gwan - MECHREF, Yehia. *Characterization of isomeric glycan structures by LC-MS/MS*. In *ELECTROPHORESIS*. ISSN 0173-0835, 2017, vol. 38, no. 17, pp. 2100-2114., Registrované v: WOS
4. [1.1] VREEKER, Gerda C. M. - WUHRER, Manfred. *Reversed-phase separation methods for glycan analysis*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS
- ADCA423 LATTOVÁ, Erika - PERREAULT, H  lene. The usefulness of hydrazine derivatives for mass spectrometric analysis of carbohydrates. In *Mass Spectrometry Reviews*, 2013, vol. 32, p. 366-385. (7.735 - IF2012). (2013 - Current Contents). ISSN 0277-7037.
- Cit  cie:
1. [1.1] FROMMHAGEN, Matthias - VAN ERVEN, Gijs - SANDERS, Mark - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. - GRUPPEN, Harry. *RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide*. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 448, no., pp. 191-199., Registrované v: WOS
2. [1.1] KOLMEL, Dominik K. - KOOL, Eric T. *Oximes and Hydrazones in Bioconjugation: Mechanism and Catalysis*. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 10358-10376., Registrované v: WOS
3. [1.1] MANGRUM, John B. - MEHTA, Akul Y. - ALABBAS, Alhumaidi B. - DESAI, Umesh R. - HAWKRIDGE, Adam M. *Comparative analysis of INLIGHT (TM)-labeled enzymatically depolymerized heparin by reverse-phase chromatography and high-performance mass spectrometry*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 499-509., Registrované v: WOS
- ADCA424 LATTOV  , Erika - PERREAULT, H. Profiling of N-linked oligosaccharides using phenylhydrazine derivatization and mass spectrometry. In *Journal of Chromatography A : international Journal on Chromatography, Electrophoresis and Related Methods*, 2003, vol. 1016, p. 71-87. (3.098 - IF2002). (2003 - Current Contents). ISSN 0021-9673.
- Cit  cie:
1. [1.1] JIANG, Kuan - ALOOR, Arya - QU, Jiangyao - XIAO, Cong - WU, Zhigang - MA, Cheng - ZHANG, Lianwen - WANG, Peng George. *Rapid and sensitive MALDI MS analysis of oligosaccharides by using 2-hydrazinopyrimidine as a derivative reagent and co-matrix*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 421-429., Registrované v: WOS
2. [1.1] MANGRUM, John B. - MEHTA, Akul Y. - ALABBAS, Alhumaidi B. - DESAI, Umesh R. - HAWKRIDGE, Adam M. *Comparative analysis of INLIGHT (TM)-labeled enzymatically depolymerized heparin by reverse-phase chromatography and high-performance mass spectrometry*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 499-509., Registrované v: WOS
3. [1.1] VEILLON, L. - ZHOU, S. - MECHREF, Y. *Quantitative Glycomics: A Combined Analytical and Bioinformatics Approach*. In *PROTEOMICS IN BIOLOGY, PT A*. ISSN 0076-6879, 2017, vol. 585, no., pp. 431-477., Registrované v: WOS
4. [1.1] VEILLON, Lucas - HUANG, Yifan - PENG, Wenjing - DONG, Xue - CHO, Byeong Gwan - MECHREF, Yehia. *Characterization of isomeric glycan structures by LC-MS/MS*. In *ELECTROPHORESIS*. ISSN 0173-0835, 2017, vol. 38, no. 17, pp. 2100-2114., Registrované v: WOS
5. [1.1] VREEKER, Gerda C. M. - WUHRER, Manfred. *Reversed-phase separation methods for glycan analysis*. In *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*. ISSN 1618-2642, 2017, vol. 409, no. 2, pp. 359-378., Registrované v: WOS
- ADCA425 LAUREN    , M. - SULO, P. - SL  VICOV  , Elena - PIECKOV  , E. - SEMAN, M. - EBRINGER, L. The diversity of eukaryotic microbiota in the traditional Slovak sheep cheese – Bryndza. In *International journal of food microbiology*, 2008, vol. 127, p. 176-179. ISSN 0168-1605.
- Cit  cie:
1. [1.1] DERTLI, Enes - CON, Ahmet Hilmi. *Microbial diversity of traditional kefir grains and their role on kefir aroma*. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 85, no., pp. 151-157., Registrované v: WOS
2. [1.1] KONUCHOVA, Martina - VALIK, Lubomir. *Evaluation of radial growth dynamics*

- variability of Geotrichum candidum: A quantitative approach. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2017, vol. 56, no. 2, pp. 155-166., Registrované v: WOS*
- ADCA426 LAZAROVÁ, Monika - LÁBAJ, Juraj - ECKL, Peter - KOGAN, Grigorij - SLAMENŇOVÁ, Darina. Effects of dietary intake of a fungal beta-D-glucan derivative on the level of DNA damage induced in primary rat hepatocytes by various carcinogens. In Nutrition and Cancer. - Philadelphia : Lawrence Erlbaum Associates - Taylor & Francis, 2006, vol. 56, no. 1, p. 113-122. ISSN 0163-5581.
- Citácie:
1. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides. In NUTRIENTS. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
- ADCA427 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] NAKANISHI, Simone C. - SOARES, Lauren B. - BIAZI, Luiz Eduardo - NASCIMENTO, Viviane M. - COSTA, Aline C. - ROCHA, George Jackson M. - IENCZAK, Jaciane L. Fermentation strategy for second generation ethanol production from sugarcane bagasse hydrolyzate by Spathaspora passalidarum and Scheffersomyces stipitis. In BIOTECHNOLOGY AND BIOENGINEERING. ISSN 0006-3592, 2017, vol. 114, no. 10, pp. 2211-2221., Registrované v: WOS
2. [1.1] NOURI, Hoda - AZIN, Mehrdad - MOUSAVI, Mir Latif. Xylan-hydrolyzing thermotolerant Candida tropicalis HNMA-1 for bioethanol production from sugarcane bagasse hydrolysate. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, 2017, vol. 67, no. 9, pp. 633-641., Registrované v: WOS
- ADCA428 LEE, H. - TO, R.J.B. - LATTA, R.K. - BIELY, Peter - SCHNEIDER, H. Some properties of extracellular acetylxylan esterase produced by the yeast Rhodotula mucilaginosa. In Applied and Environmental Microbiology, 1987, vol. 53, p. 2831-2834. ISSN 0099-2240.
- Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
2. [1.1] WU, Jia - ELLISTON, Adam - LE GALL, Gwenaëlle - COLQUHOUN, Ian J. - COLLINS, Samuel R. A. - DICKS, Jo - ROBERTS, Ian N. - WALDRON, Keith W. Yeast diversity in relation to the production of fuels and chemicals. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA429 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 - KENGEN, 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. (3.392 - IF2011). (2012 - Current Contents). ISSN 0887-3585.
- Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
2. [1.1] SINGH, Mrityunjay K. - MANOJ, Narayanan. Structural role of a conserved active site cis proline in the Thermotoga maritima acetyl esterase from the carbohydrate esterase family 7. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS. ISSN 0887-3585, 2017, vol. 85, no. 4, pp. 694-708., Registrované v: WOS
3. [1.1] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable alpha/beta hydrolase fold esterase. In PROTEIN ENGINEERING DESIGN & SELECTION. ISSN 1741-0126, 2017, vol. 30, no. 8, pp. 559-570., Registrované v: WOS
4. [1.1] ZHANG, Hui - LI, Mengya - LI, Jie - WANG, Guangli - LI, Feng - XU, Dayong - LIU, Yuan - XIONG, Minghua. A key esterase required for the mineralization of quizalofop-p-ethyl by a natural consortium of Rhodococcus sp JT-3 and Brevundimonas sp JT-9. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, 2017, vol. 327, no., pp. 1-10., Registrované v: WOS
5. [1.2] Group Author(s): Uniprot Consortium. Q9WXT2. In: UniProt Knowledgebase Source

- URL: <http://www.uniprot.org/uniprot/Q9WXT2>, Registrované v: WOS
- ADCA430 LIBJAKOVÁ, L. - BYSTRICKÝ, Slavomír - LIŽIČAROVÁ, Izebeľa - PAULOVIČOVÁ, Ema. Evaluation of different mannan polysaccharide usage in enzyme-linked immunosorbent assay for specific antibodies determination. In *Journal of Pharmaceutical and Biomedical Analysis*, 2007, vol. 45, p. 521-525. (2.032 - IF2006). ISSN 0731-7085.
- Citácie:
1. [1.1] SALVADOR, Catia - BORDALO, Rui - SILVA, Mara - ROSADO, Tania - CANDEIAS, Antonio - CALDEIRA, Ana Teresa. On the conservation of easel paintings: evaluation of microbial contamination and artists materials. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. ISSN 0947-8396, 2017, vol. 123, no. 1, pp., Registrované v: WOS
- ADCA431 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.
- Citácie:
1. [1.1] BALAZITOV, Ramil Y. - SYDORENKO, Nadiya - REN, Hongyu - MOON, Young-Choon. Unexpected Observation of the Dimroth Rearrangement in the Ribosylation of 4-Aminopyrimidines. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 11, pp. 5881-5889., Registrované v: WOS
- ADCA432 LINEK, K. - ALFOLDI, Juraj - DEFAYE, J. Glycosylamines. 1. Structure and rearrangement reactions of some diglycosylamines. In *Carbohydrate Research*, 1987, vol. 164, p. 195-205. ISSN 0008-6215.
- Citácie:
1. [1.1] BALAZITOV, Ramil Y. - SYDORENKO, Nadiya - REN, Hongyu - MOON, Young-Choon. Unexpected Observation of the Dimroth Rearrangement in the Ribosylation of 4-Aminopyrimidines. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 11, pp. 5881-5889., Registrované v: WOS
- ADCA433 LIŠKA, Denis - MARTINKA, Michal - KOHANOVA, 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. (3.982 - IF2015). (2016 - Current Contents). ISSN 0305-7364.
- Citácie:
1. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. Tolerance and potential for bioaccumulation of *Alternanthera tenella* Colla to cadmium under in vitro conditions. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
2. [1.1] BARBERON, Marie. The endodermis as a checkpoint for nutrients. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1604-1610., Registrované v: WOS
3. [1.1] DOBLAS, Veronica G. - GELDNER, Niko - BARBERON, Marie. The endodermis, a tightly controlled barrier for nutrients. In *CURRENT OPINION IN PLANT BIOLOGY*. ISSN 1369-5266, 2017, vol. 39, no., pp. 136-143., Registrované v: WOS
4. [1.1] MUTHUKUMAR, Thangavelu - AYYASAMY, Kowsalya. Comparative anatomy of aerial and substrate roots of *Acampe praemorsa* (Rox.) Blatt. & McCann. In *FLORA*. ISSN 0367-2530, 2017, vol. 226, no., pp. 17-28., Registrované v: WOS
5. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - SCHWAB, Arthur P. - MA, Xingmao. Uptake, Accumulation, and in Planta Distribution of Coexisting Cerium Oxide Nanoparticles and Cadmium in *Glycine max* (L.) Merr. In *ENVIRONMENTAL SCIENCE & TECHNOLOGY*. ISSN 0013-936X, 2017, vol. 51, no. 21, pp. 12815-12824., Registrované v: WOS
- ADCA434 LIU, Min - MACHOVÁ, Eva - NEŠČÁKOVÁ, Zuzana - MEDOVARSKÁ, Izabela - CLEMONS, Karol V. - MARTINEZ, Marife - CHEN, Vicky - BYSTRICKÝ, Slavomír - STEVENS, David. Vaccination with mannan protects mice against systemic aspergillosis. In *Medical Mycology*, 2012, vol. 50, p. 818-828. (2.457 - IF2011). ISSN 1369-3786.
- Citácie:
1. [1.1] LEVITZ, Stuart M. *Aspergillus* vaccines: Hardly worth studying or worthy of hard study? In *MEDICAL MYCOLOGY*. ISSN 1369-3786, 2017, vol. 55, no. 1, pp. 103-108., Registrované v: WOS
2. [1.1] WATTANASIRI, Chakree - PAHA, Jiraporn - PONPUAK, Marisa - RUCHIRAWAT, Somsak - BOONYARATTANAKALIN, Siwarutt. Synthesis of synthetic mannan backbone polysaccharides found on the surface of *Mycobacterium tuberculosis* as a vaccine adjuvant and their immunological properties. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 746-755., Registrované v: WOS
- ADCA435 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. (4.004 - IF2007). (2008 -

Current Contents). ISSN 0099-2240.

Citácie:

1. [1.1] ANASONTZIS, George E. - NGUYEN THANH THUY - DINH THI MY HANG - HAN THU HUONG - DANG TAT THANH - DINH DUC HIEN - VU NGUYEN THANH - OLSSON, Lisbeth. Rice straw hydrolysis using secretomes from novel fungal isolates from Vietnam. In *BIOMASS & BIOENERGY*. ISSN 0961-9534, 2017, vol. 99, no., pp. 11-20., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. A7J2C6. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/A7J2C6>, Registrované v: WOS
3. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of Escherichia coli Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS
4. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308). I, Registrované v: SCOPUS

ADCA436

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. ISSN 1873-3468.

Citácie:

1. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] GOEDEGEBUUR, Frits - DANKMEYER, Lydia - GUALFETTI, Peter - KARKEHABADI, Saeid - HANSSON, Henrik - JANA, Suvamay - HUYNH, Vicky - KELEMEN, Bradley R. - KRUITHOFF, Paulien - LARENAS, Edmund A. - TEUNISSEN, Pauline J. M. - STAHLBERG, Jerry - PAYNE, Christina M. - MITCHINSON, Colin - SANDGREN, Mats. Improving the thermal stability of cellobiohydrolase Cel7A from Hypocrea jecorina by directed evolution. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 42, pp. 17418-17430., Registrované v: WOS
3. [1.1] Group Author(s): Uniprot Consortium. D8QLP9. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: WOS
4. [1.1] Group Author(s): Uniprot Consortium. G0RV93. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/G0RV93>, Registrované v: WOS
5. [1.1] MARYNOWSKA, Martyna - GOUX, Xavier - SILLAM-DUSSES, David - ROULAND-LEFEVRE, Corinne - ROISIN, Yves - DELFOSSE, Philippe - CALUSINSKA, Magdalena. Optimization of a metatranscriptomic approach to study the lignocellulolytic potential of the higher termite gut microbiome. In *BMC GENOMICS*. ISSN 1471-2164, 2017, vol. 18, no., pp., Registrované v: WOS
6. [1.1] STAPPLER, Eva - DATTENBOECK, Christoph - TISCH, Doris - SCHMOLL, Monika. Analysis of Light- and Carbon-Specific Transcriptomes Implicates a Class of G-Protein-Coupled Receptors in Cellulose Sensing. In *MSPHERE*. ISSN 2379-5042, 2017, vol. 2, no. 3, pp., Registrované v: WOS
7. [1.1] WANG, Mingyu - HOU, Jin. Biorefinery of Lignocellulosics for Biofuels and Biochemicals. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016, vol., no., pp. 143-191., Registrované v: WOS

ADCA437

LIŽIČÁROVÁ, Izebeľ - MATULOVÁ, Mária - CAPEK, Peter - MACHOVÁ, Eva. Human pathogen *Candida dubliniensis*: A cell wall mannan with a high content of beta-1,2-linked mannose residues. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 70, p. 89-100. (1.784 - IF2006). ISSN 0144-8617.

Citácie:

1. [1.1] BYSTRICKY, Peter - DOBROTA, Dusan - RACAY, Peter - BYSTRICKY, Slavomir. 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*. ISSN 0366-6352, 2017, vol. 71, no. 12, pp. 2485-2493., Registrované v: WOS

ADCA438

LORENCOVÁ, Lenka - BERTÓK, Tomáš - CHOCHOLOVÁ, Erika, Došeková - HOLAZOVÁ, Alena, Šedivá - PAPRČKOVÁ, Darina - VIKARTOVSKÁ, Alica, Welwardová - 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. (4.798 - IF2016). (2017 - Current Contents). ISSN 0013-4686.

Citácie:

1. [1.1] ZHU, Jing - HA, Enna - ZHAO, Guoliang - ZHOU, Yang - HUANG, Deshun - YUE, Guozong - HU, Liangsheng - SUN, Ning - WANG, Yong - LEE, Lawrence Yoon Suk - XU, Chen - WONG, Kwok-Yin - ASTRUC, Didier - ZHAO, Pengxiang. Recent advance in MXenes: A

- promising 2D material for catalysis, sensor and chemical adsorption. In COORDINATION CHEMISTRY REVIEWS. ISSN 0010-8545, 2017, vol. 352, no., pp. 306-327., Registrované v: WOS*
2. [1.1] ZHU, Xiaolei - LIU, Bingchuan - HOU, Huijie - HUANG, Zhenying - ZEINU, Kemal Mohammed - HUANG, Long - YUAN, Xiqing - GUO, Dabin - HU, Jingping - YANG, Jiakuan. Alkaline intercalation of Ti₃C₂ MXene for simultaneous electrochemical detection of Cd(II), Pb(II), Cu(II) and Hg(II). In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 248, no., pp. 46-57., Registrované v: WOS
- ADCA439 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.
- Citácie:
1. [1.1] CONTINA, J. B. - DANDURAND, L. M. - KNUDSEN, G. R. Use of GFP-tagged Trichoderma harzianum as a tool to study the biological control of the potato cyst nematode Globodera pallida. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, 2017, vol. 115, no., pp. 31-37., Registrované v: WOS
2. [1.1] DAGUERRE, Yohann - EDEL-HERMANN, Veronique - STEINBERG, Christian. Fungal Genes and Metabolites Associated with the Biocontrol of Soil-borne Plant Pathogenic Fungi. In FUNGAL METABOLITES. ISSN 2511-834X, 2017, vol., no., pp., Registrované v: WOS
3. [1.1] KARLSSON, Magnus - ATANASOVA, Lea - JENSEN, Dan Funck - ZEILINGER, Susanne. Necrotrophic Mycoparasites and Their Genomes. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, 2017, vol. 5, no. 2, pp., Registrované v: WOS
4. [1.1] MARIK, Tamas - URBAN, Peter - TYAGI, Chetna - SZEKERES, Andras - LEITGEB, Balazs - VAGVOLGYI, Mate - MANCZINGER, Laszlo - DRUZHININA, Irina S. - VAGVOLGYI, Csaba - KREDICS, Laszlo. Diversity Profile and Dynamics of Peptaibols Produced by Green Mould Trichoderma Species in Interactions with Their Hosts Agaricus bisporus and Pleurotus ostreatus. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2017, vol. 14, no. 6, pp., Registrované v: WOS
5. [1.2] JABER, Lara R. - OWNLEY, Bonnie H. Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens? In Biological Control. ISSN 10499644, 2017-04-01, 107, pp. 50-59., Registrované v: SCOPUS
6. [1.2] SIDDIQUEE, Shafiquzzaman. Fungal volatile organic Compounds: Emphasis on their plant growth-promoting. In Volatiles and Food Security: Role of Volatiles in Agro-Ecosystems, 2017-12-06, pp. 313-333., Registrované v: SCOPUS
- ADCA440 LUX, Alexander - LACKOVIČ, Andrej - STADEN, Johannes Van - LIŠKOVÁ, Desana - KOHANOVÁ, Jana - MARTINKA, Michal. Cadmium translocation by contractile roots differs from that in regular, non-contractile roots. In Annals of Botany, 2015, vol. 115, p. 1149-1154. (3.654 - IF2014). (2015 - Current Contents). ISSN 0305-7364.
- Citácie:
1. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM, Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad - ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (Zea mays L.) for phytomanagement of Cd-contaminated soils: a critical review. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS
- ADCA441 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. (3.388 - IF2010). (2011 - Current Contents). ISSN 0305-7364.
- Citácie:
1. [1.1] JEELANI, Nasreen - YANG, Wen - XU, Lingqian - QIAO, Yajun - AN, Shuqing - LENG, Xin. Phytoremediation potential of Acorus calamus in soils co-contaminated with cadmium and polycyclic aromatic hydrocarbons. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
2. [1.1] POMPEU, Georgia B. - VILHENA, Milca B. - GRATAO, Priscila L. - CARVALHO, Rogerio F. - ROSSI, Monica L. - MARTINELLI, Adriana P. - AZEVEDO, Ricardo A. Abscissic acid-deficient sit tomato mutant responses to cadmium-induced stress. In PROTOPLASMA. ISSN 0033-183X, 2017, vol. 254, no. 2, pp. 771-783., Registrované v: WOS
- ADCA442 MAČIČKOVÁ, Tatiana - KETTNER, Milan - LINEK, K. In vivo effect of 2,4-dinitro-phenyl-substituted sugar hydrazones and phenyllosazone against trichomonas vaginalis and tritrichomonas foetus. In Pharmazie : an international journal of pharmaceutical sciences, 1990, vol. 45, no. 3, p. 204-206. ISSN 0031-7144.
- Citácie:
1. [1.2] KUSHWAHA, B. - GUPTA, G. Sexually transmitted infections and male infertility: Old

- enigma, new insights. (Book Chapter). In MALE INFERTILITY: UNDERSTANDING, CAUSES AND TREATMENT. 2017, p. 183-212., Registrované v: SCOPUS*
- ADCA443 MACHOVÁ, Eva - FIACANOVÁ, 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. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] *ABIDIN, Munira Zainal - JUNQUEIRA-GONCALVES, Maria Paula - KHUTORYANSKIY, Vitaliy V. - NIRANJAN, Keshavan. Intensifying chitin hydrolysis by adjunct treatments an overview. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 11, pp. 2787-2798., Registrované v: WOS*
 - [1.1] *LIU, Xin - XIE, Jianhua - JIA, Shuo - HUANG, Lixin - WANG, Zhijun - LI, Chang - XIE, Mingyong. Immunomodulatory effects of an acetylated Cyclocarya paliurus polysaccharide on murine macrophages RAW264.7. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 576-581., Registrované v: WOS*
 - [1.1] *WINKLER, Alexander J. - ALFONSO DOMINGUEZ-NUNEZ, Jose - ARANAZ, Inmaculada - POZA-CARRION, Cesar - RAMONELL, Katrina - SOMERVILLE, Shauna - BERROCAL-LOBO, Marta. Short-Chain Chitin Oligomers: Promoters of Plant Growth. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 2, pp., Registrované v: WOS*
- ADCA444 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. (3.916 - IF2013). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] *LI, Jing - SHANG, Wenting - SI, Xu - BU, Dandan - STRAPPE, Padraig - ZHOU, Zhongkai - BLANCHARD, Chris. Carboxymethylation of corn bran polysaccharide and its bioactive property. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, 2017, vol. 52, no. 5, pp. 1176-1184., Registrované v: WOS*
- ADCA445 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. (3.916 - IF2013). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] *GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast Kluyveromyces marxianus. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS*
 - [1.1] *HUANG, Gangliang - HUANG, Hualiang. The derivatization and antitumor mechanisms of polysaccharides. In FUTURE MEDICINAL CHEMISTRY. ISSN 1756-8919, 2017, vol. 9, no. 16, pp. 1931-1938., Registrované v: WOS*
 - [1.1] *LIU, Yuntao - YOU, Yuxian - LI, Yiwen - ZHANG, Lan - TANG, Tingting - DUAN, Xiaoyu - LI, Cheng - LIU, Aiping - HU, Bin - CHEN, Daiwen. Characterization of carboxymethylated polysaccharides from Catathelasma ventricosum and their antioxidant and antibacterial activities. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, 2017, vol. 38, no., pp. 355-362., Registrované v: WOS*
 - [1.1] *SHAO, Le-Le - XU, Jie - SHI, Mei-Jia - WANG, Xiao-Ling - LI, Yin-Ting - KONG, Li-Min - HIDER, Robert C. - ZHOU, Tao. Preparation, antioxidant and antimicrobial evaluation of hydroxamated degraded polysaccharides from Enteromorpha prolifera. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 237, no., pp. 481-487., Registrované v: WOS*
- ADCA446 MACHOVÁ, Eva - BYSTRICKÝ, Slavomír. Antioxidant capacities of mannans and glucans are related to their susceptibility of free radical degradation. In International Journal of Biological Macromolecules, 2013, vol. 61, p. 308-311. (2.596 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
- [1.1] *GALINARI, Eder - SABRY, Diego Araujo - SASSAKI, Guilherme Lanzi - MACEDO, Gorete Ribeiro - LOPES PASSOS, Flavia Maria - MANTOVANI, Hilario Cuquetto - OLIVEIRA ROCHA, Hugo Alexandre. Chemical structure, antiproliferative and antioxidant activities of a cell wall alpha-D-mannan from yeast Kluyveromyces marxianus. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1298-1305., Registrované v: WOS*
 - [1.1] *MORENO-MENDIETA, Silvia - GUILLEN, Daniel - HERNANDEZ-PANDO, Rogelio - SANCHEZ, Sergio - RODRIGUEZ-SANOJA, Romina. Potential of glucans as vaccine adjuvants:*

- A review of the alpha-glucans case. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 103-114., Registrované v: WOS*
3. [1.1] WANG, Yu-Jie - MAINA, Ndegwa Henry - EKHOLM, Paivi - LAMPI, Anna-Maija - SONTAG-STROHM, Tuula. Retardation of oxidation by residual phytate in purified cereal beta-glucans. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 66, no., pp. 161-167., Registrované v: WOS
4. [1.1] XIE, Fang - YUAN, Shuzhi - PAN, Hanxu - WANG, Rui - CAO, Jiankang - JIANG, Weibo. Effect of yeast mannan treatments on ripening progress and modification of cell wall polysaccharides in tomato fruit. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 218, no., pp. 509-517., Registrované v: WOS
5. [1.1] ZHU, Yuan - MAHANEY, James - JELLISON, Jody - CAO, Jinzhen - GRESSLER, Julia - HOFFMEISTER, Dirk - GOODELL, Barry. Fungal variegatic acid and extracellular polysaccharides promote the site-specific generation of reactive oxygen species. In JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY. ISSN 1367-5435, 2017, vol. 44, no. 3, pp. 329-338., Registrované v: WOS
- ADCA447 MAJEROVÁ, Petra - BARÁTH, Peter - 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, p. 507-512. (3.731 - IF2016). (2017 - Current Contents). ISSN 1387-2877.
Citácie:
1. [1.1] WANG YONG - WU LI - XU JIN-LING - LI SHUI-MING - LIU NING - JIANG LIANG. Effect of Reproducibility of Nano-liquid Chromatography-Mass Spectrometry on Analysis of Urinary Peptidomics. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, 2017, vol. 45, no. 10, pp. 1475-1481., Registrované v: WOS
- ADCA448 MAJKA, Jaroslaw - ROSEN, Ake - JANÁK, Marian - FROITZHEIM, Nikolaus - KLONOWSKA, Iwona - MANECKI, Maciej - SASINKOVÁ, Vlasta - YOSHIDA, Kenta. Microdiamond discovered in the Seve Nappe (Scandinavian Caledonides) and its exhumation by the "vacuum-cleaner" mechanism. In Geology, 2014, vol. 42, p. 1107-1110. (4.638 - IF2013). (2014 - Current Contents). ISSN 0091-7613.
Citácie:
1. [1.1] YAN, Ping - JUANATEY, Maria A. Garcia - KALSCHEUER, Thomas - JUHLIN, Christopher - HEDIN, Peter - SAVVAIDIS, Alexandros - LORENZ, Henning - KUECK, Jochem. A magnetotelluric investigation of the Scandinavian Caledonides in western Jamtland, Sweden, using the COSC borehole logs as prior information. In GEOPHYSICAL JOURNAL INTERNATIONAL. ISSN 0956-540X, 2017, vol. 208, no. 3, pp. 1465-1489., Registrované v: WOS
- ADCA449 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. (2014 - Current Contents). ISSN 1096-620X. Dostupné na internete:
<<http://online.liebertpub.com/doi/abs/10.1089/jmf.2012.0201?journalCode=jmf>>.
Citácie:
1. [1.1] LI, Dan - WANG, Meng - CHENG, Ni - XUE, Xiaofeng - WU, Liming - CAO, Wei. A modified FOX-1 method for Micro-determination of hydrogen peroxide in honey samples. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 237, no., pp. 225-231., Registrované v: WOS
2. [1.1] ROSHAN, Niloufar - RIPPERS, Thomas - LOCHER, Cornelia - HAMMER, Katherine A. Antibacterial activity and chemical characteristics of several Western Australian honeys compared to manuka honey and pasture honey. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, 2017, vol. 199, no. 2, pp. 347-355., Registrované v: WOS
3. [1.1] TSANG, A. S. - DART, A. J. - SOLE-GUITART, A. - DART, C. M. - PERKINS, N. R. - JEFFCOTT, L. B. Comparison of the effects of topical application of UMF20 and UMF5 manuka honey with a generic multifloral honey on wound healing variables in an uncontaminated surgical equine distal limb wound model. In AUSTRALIAN VETERINARY JOURNAL. ISSN 0005-0423, 2017, vol. 95, no. 9, pp. 333-337., Registrované v: WOS
- ADCA450 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. [1.2] YOUNG, T. R. - RIBEIRO, F. R. B. - SANCHEZ, N. C. Burdick - CARROLL, J. A. - JENNINGS, M. A. - CRIBBS, J. T. - RATHMANN, R. J. - CORLEY, J. R. - JOHNSON, B. J. Yeast cell wall supplementation alters the performance and health of beef heifers during the receiving period. In Professional Animal Scientist. ISSN 10807446, 2017-04-01, 33, 2, pp. 166-175., Registrované v: SCOPUS

- ADCA451 MAJTÁN, Juraj - BÍLIKOVÁ, Katarína - MARKOVIC, O. - GROF, J. - KOGAN, Grigorij - ŠIMÚTH, Jozef. Isolation and characterization of chitin from bumblebee (*Bombus terrestris*). In *International Journal of Biological Macromolecules*, 2007, vol. 40, no. 3, pp. 237-241. (1.684 - IF2006). (2007 - Current Contents). ISSN 0141-8130.
- Citácie:
- [1.1] BAHASAN, S.H.O. - SATHEESH, S. - BA-AKDAH, M.A. Extraction of Chitin from the Shell Wastes of Two Shrimp Species *Fenneropenaeus semisulcatus* and *Fenneropenaeus indicus* using Microorganisms. In *JOURNAL OF AQUATIC FOOD PRODUCT TECHNOLOGY*. 2017, vol. 26, no. 4, p. 390-405., Registrované v: WOS
 - [1.1] GARRIDO, T. - ETXABIDE, A. - DE LA CABA, K. - GUERRERO, P. Versatile soy protein films and hydrogels by the incorporation of beta-chitin from squid pens (*Loligo sp.*). In *GREEN CHEMISTRY*. DEC 21 2017, vol. 19, no. 24, p. 5923-5931., Registrované v: WOS
 - [1.1] KAYA, M. - MUJTABA, M. - EHRLICH, H. - SALABERRIA, A.M. - BARAN, T. - AMEMIYA, C.T. - GALLI, R. - AKYUZ, L. - SARGIN, I. - LABIDI, J. On chemistry of gamma-chitin. In *CARBOHYDRATE POLYMERS*. NOV 15 2017, vol. 176, p. 177-186., Registrované v: WOS
 - [1.1] LIN, N. - ZHAO, S.S. - GAN, L. - CHANG, P.R. - XIA, T. - HUANG, J. Preparation of fungus-derived chitin nanocrystals and their dispersion stability evaluation in aqueous media. In *CARBOHYDRATE POLYMERS*. OCT 1 2017, vol. 173, p. 610-618., Registrované v: WOS
 - [1.1] MAREI, N.H. - EI-MAZNY, W. - EL-SHAER, A. - ZAKI, K.D. - HUSSEIN, Z.S. - ABD-EL-SAMIE, E.M. Enhanced wound healing activity of desert locust (*Schistocerca gregaria*) vs. shrimp (*Penaeus monodon*) chitosan based scaffolds. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. APR 2017, vol. 97, p. 23-33., Registrované v: WOS
 - [1.1] MEHRANIAN, M. - POURABAD, R.F. - BASHIR, N.S. - TAIEBAN, S. Physicochemical characterization of chitin from the Mediterranean flour moth, *Ephestia kuehniella* Zeller (*Lepidoptera: Pyralidae*). In *JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY*. 2017, vol. 54, no. 10, p. 720-726., Registrované v: WOS
 - [1.2] SAHEBZADEH, Najmeh - GHAFARI-MOGHADDAM, Mansour - SABAGH, Syed Kazem. Toxicity of N-alkyl derivatives of chitosan obtained from adult of *Chortogonus trachypterus* (*Orthoptera, Acrididae*) against the wheat, cabbage and oleander aphid (*Hemiptera: Aphididae*) species. In *Jordan Journal of Biological Sciences*. ISSN 19956673, 2017-01-01, 10, 1, pp. 49-55., Registrované v: SCOPUS
- ADCA452 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. (3.239 - IF2009). (2010 - Current Contents). ISSN 0906-6705.
- Citácie:
- [1.1] AL-EISA, R.A. - AL-NAHARI, H.A. The attenuating effect of Royal Jelly on Hormonal Parameters in Aluminum Chloride (AlCl₃) Intoxicated Rats. In *INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH AND ALLIED SCIENCES*. 2017, vol. 6, no. 2, p. 70-85., Registrované v: WOS
 - [1.1] CORNARA, L. - BIAGI, M. - XIAO, J.B. - BURLANDO, B. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In *FRONTIERS IN PHARMACOLOGY*. JUN 28 2017, vol. 8., Registrované v: WOS
 - [1.1] LAZIM, N.M. - BAHARUDIN, A. Honey-A Natural Remedy for Pain Relief. In *NUTRITIONAL MODULATORS OF PAIN IN THE AGING POPULATION*. 2017, p. 123-134., Registrované v: WOS
 - [1.1] MIGUEL, M.G. - ANTUNES, M.D. - FALEIRO, M.L. Honey as a Complementary Medicine. In *INTEGRATIVE MEDICINE INSIGHTS*. APR 24 2017, vol. 12., Registrované v: WOS
 - [1.1] MUKAI, K. - KOMATSU, E. - YAMANISHI, M. - HUTAKUCHI, M. - KANZAKA, K. - UNO, Y. - YAMAZAKI, S. - KATO, S. - YAMAMOTO, T. - HATTORI, M. - NAKAJIMA, Y. - URAI, T. - ASANO, K. - MURAKADO, N. - OKUWA, M. - NAKATANI, T. Effectiveness of Changing the Application of Japanese Honey to a Hydrocolloid Dressing in Between the Inflammatory and Proliferative Phases on Cutaneous Wound Healing in Male Mice. In *WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE*. JAN 2017, vol. 29, no. 1, p. 1-9., Registrované v: WOS
 - [1.2] NORDIN, Abid - SAINIK, Nur Qisya Afifah Veronica - ZULFARINA, Mohamed S. - NAINA-MOHAMED, Isa - SAIM, Aminuddin - BT HJ IDRUS, Ruszymah. Honey and epithelial to mesenchymal transition in wound healing: An evidence-based review. In *Wound Medicine*. ISSN 22139095, 2017-09-01, 18, pp. 8-20., Registrované v: SCOPUS
- ADCA453 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. (2.708 - IF2012). (2013 - Current Contents). ISSN 0340-3696. Dostupné na internete: <file:///C:/Users/admin/Downloads/majtan-et-al-2013-adr.pdf>.

Citácie:

1. [1.1] AZIZ, Muhammad Shakir Abdul - GIRIBABU, Nelli - RAO, Pasupuleti Visweswara - SALLEH, Naguib. Pancreatoprotective effects of Geniotrigona thoracica stingless bee honey in streptozotocin-nicotinamide-induced male diabetic rats. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2017, vol. 89, no., pp. 135-145., Registrované v: WOS
2. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] DE LACERDA NETO, Luis Jardelino - BARBOSA RAMOS, Andreza Guedes - SALES, Valterlucio Santos - GONCALVES DE SOUZA, Severino Denicio - LUCAS DOS SANTOS, Antonia Thassya - DE OLIVEIRA, Larissa Rolim - KERNTOPF, Marta Regina - DE ALBUQUERQUE, Thais Rodrigues - MELO COUTINHO, Henrique Douglas - QUINTANS-JUNIOR, Lucindo Jose - WANDERLEY, Almir Goncalves - ALENCAR DE MENEZES, Irwin Rose. Gastroprotective and ulcer healing effects of hydroethanolic extract of leaves of Caryocar coriaceum: Mechanisms involved in the gastroprotective activity. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2017, vol. 261, no., pp. 56-62., Registrované v: WOS
4. [1.1] KUS, Piotr M. - JERKOVIC, Igor - MARIJANOVIC, Zvonimir - TUBEROSO, Carlo I. G. Screening of Polish Fir Honeydew Honey Using GC/MS, HPLC-DAD, and Physical-Chemical Parameters: Benzene Derivatives and Terpenes as Chemical Markers. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2017, vol. 14, no. 9, pp., Registrované v: WOS
5. [1.1] LAZIM, N. M. - BAHARUDIN, A. Honey-A Natural Remedy for Pain Relief. In NUTRITIONAL MODULATORS OF PAIN IN THE AGING POPULATION, 2017, vol., no., pp. 123-134., Registrované v: WOS
6. [1.1] MUKAI, Kanae - KOMATSU, Emi - YAMANISHI, Misa - HUTAKUCHI, Misako - KANZAKA, Kayo - UNO, Yuka - YAMAZAKI, Shizuka - KATO, Shizuka - YAMAMOTO, Tomomi - HATTORI, Mayumi - NAKAJIMA, Yukari - URAI, Tamae - ASANO, Kimi - MURAKADO, Naoko - OKUWA, Mayumi - NAKATANI, Toshio. Effectiveness of Changing the Application of Japanese Honey to a Hydrocolloid Dressing in Between the Inflammatory and Proliferative Phases on Cutaneous Wound Healing in Male Mice. In WOUNDS-A COMPENDIUM OF CLINICAL RESEARCH AND PRACTICE. ISSN 1044-7946, 2017, vol. 29, no. 1, pp. 1-9., Registrované v: WOS
7. [1.1] SAIKALY, Sami K. - KHACHEMOUNE, Amor. Honey and Wound Healing: An Update. In AMERICAN JOURNAL OF CLINICAL DERMATOLOGY. ISSN 1175-0561, 2017, vol. 18, no. 2, pp. 237-251., Registrované v: WOS
8. [1.1] SHAH, Ahmed - AMINI-NIK, Saeid. The Role of Phytochemicals in the Inflammatory Phase of Wound Healing. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 5, pp., Registrované v: WOS
9. [1.2] NORDIN, Abid - SAINIK, Nur Qisya Afifah Veronica - ZULFARINA, Mohamed S. - NAINA-MOHAMED, Isa - SAIM, Aminuddin - BT HJ IDRUS, Ruszymah. Honey and epithelial to mesenchymal transition in wound healing: An evidence-based review. In Wound Medicine. ISSN 22139095, 2017-09-01, 18, pp. 8-20., Registrované v: SCOPUS

ADCA454

MAJTÁN, Juraj - BOHOVÁ, Jana - HORNIAČKOVÁ, 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. (2.397 - IF2013). (2014 - Current Contents). ISSN 0951-418X. Dostupné na internete: <http://onlinelibrary.wiley.com/doi/10.1002/ptr.4957/epdf>.

Citácie:

1. [1.1] ALMASAUDI, Saad B. - AL-NAHARI, Alaa A. M. - ABD EL-GHANY, El Sayed M. - BARBOUR, Elie - AL MUHAYAWI, Saad M. - AL-JAOUNI, Soad - AZHAR, Esam - QARI, Mohamad - QARI, Yousef A. - HARAKEH, Steve. Antimicrobial effect of different types of honey on Staphylococcus aureus. In SAUDI JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1319-562X, 2017, vol. 24, no. 6, pp. 1255-1261., Registrované v: WOS
2. [1.1] BULMAN, Sophie E. L. - TRONCI, Giuseppe - GOSWAMI, Parikshit - CARR, Chris - RUSSELL, Stephen J. Antibacterial Properties of Nonwoven Wound Dressings Coated with Manuka Honey or Methylglyoxal. In MATERIALS. ISSN 1996-1944, 2017, vol. 10, no. 8, pp., Registrované v: WOS
3. [1.1] EMINEKE, Somadina - COOPER, Alan J. - FOUCH, Sarah - BIRCH, Brian R. - LWALEED, Bashir A. Diluted honey inhibits biofilm formation: potential application in urinary catheter management? In JOURNAL OF CLINICAL PATHOLOGY. ISSN 0021-9746, 2017, vol. 70, no. 2, pp. 140-144., Registrované v: WOS

4. [1.1] HALSTEAD, F. D. - WEBBER, M. A. - OPPENHEIM, B. A. Use of an engineered honey to eradicate preformed biofilms of important wound pathogens: an in vitro study. In JOURNAL OF WOUND CARE. ISSN 0969-0700, 2017, vol. 26, no. 8, pp. 442-450., Registrované v: WOS
5. [1.1] KUS, Piotr M. - JERKOVIC, Igor - MARIJANOVIC, Zvonimir - TUBEROSO, Carlo I. G. Screening of Polish Fir Honeydew Honey Using GC/MS, HPLC-DAD, and Physical-Chemical Parameters: Benzene Derivatives and Terpenes as Chemical Markers. In CHEMISTRY & BIODIVERSITY. ISSN 1612-1872, 2017, vol. 14, no. 9, pp., Registrované v: WOS
6. [1.1] NIAZ, Kamal - MAQBOOL, Faheem - BAHADAR, Haji - ABDOLLAHI, Mohammad. Health Benefits of Manuka Honey as an Essential Constituent for Tissue Regeneration. In CURRENT DRUG METABOLISM. ISSN 1389-2002, 2017, vol. 18, no. 10, pp. 881-892., Registrované v: WOS
7. [1.1] OLIVEIRA, Ana - RIBEIRO, Henrique G. - SILVA, Ana C. - SILVA, Maria D. - SOUSA, Jessica C. - RODRIGUES, Celia F. - MELO, Luis D. R. - HENRIQUES, Ana F. - SILLANKORVA, Sanna. Synergistic Antimicrobial Interaction between Honey and Phage against Escherichia coli Biofilms. In FRONTIERS IN MICROBIOLOGY. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
8. [1.1] TRAMUTA, C. - NEBBIA, P. - ROBINO, P. - GIUSTO, G. - GANDINI, M. - CHIADO-CUTIN, S. - GREGO, E. Antibacterial activities of Manuka and Honeydew honey-based membranes against bacteria that cause wound infections in animals. In SCHWEIZER ARCHIV FÜR TIERHEILKUNDE. ISSN 0036-7281, 2017, vol. 159, no. 2, pp. 117-121., Registrované v: WOS
9. [1.2] RAFTER, Linda - REYNOLDS, Tim - COLLIER, Mark - RAFTER, Mark - WEST, Malcolm. A clinical evaluation of Algivon® Plus manuka honey dressings for chronic wounds. In Wounds UK. ISSN 17466814, 2017-01-01, 13, 4, pp. 132-140., Registrované v: SCOPUS
- ADCA455 MALECOVÁ, B. - RAMSER, J. - O'BRIEN, J.K. - JANITZ, M. - JUDOVÁ, J. - LEHRACH, H. - ŠIMŮTH, Jozef. Honeybee (Apis mellifera L.) mrjp gene family: computational analysis of putative promoters and genomic structure of mrjp, the gene coding for the most abundant protein of larval food. In Gene, 2003, vol. 303, p. 165-175. ISSN 0378-1119.
- Citácie:
1. [1.1] CHEN, Di - LIU, Fang - WAN, Jian-Bo - LAI, Chao-Qiang - SHEN, Li-rong. Effect of Major Royal Jelly Proteins on Spatial Memory in Aged Rats: Metabolomics Analysis in Urine. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 15, pp. 3151-3159., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. Group Author(s): Uniprot Consortium. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O18330>, Registrované v: WOS
3. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of Melissococcus plutonius clonal complex 3 strains to antimicrobial activity of royal jelly. In ENVIRONMENTAL MICROBIOLOGY REPORTS. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS
- ADCA456 MALOVÍKOVÁ, Anna - RINAUDO, M. - MILAS, M. Comparative interactions of magnesium and calcium counterions with polygalacturonic acid. In Biopolymers, 1994, vol. 34, p. 1059-1064. ISSN 0006-3525.
- Citácie:
1. [1.1] GUO, Xiaoming - ZHANG, Tao - MENG, Hecheng - YU, Shujuan. Ethanol precipitation of sugar beet pectins as affected by electrostatic interactions between counter ions and pectin chains. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, 2017, vol. 65, no., pp. 187-197., Registrované v: WOS
2. [1.1] PRESLAR, Adam T. - LILLEY, Laura M. - SATO, Kohei - ZHANG, Shanrong - CHIA, Zer Keen - STUPP, Samuel I. - MEADE, Thomas J. Calcium-Induced Morphological Transitions in Peptide Amphiphiles Detected by F-19-Magnetic Resonance Imaging. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2017, vol. 9, no. 46, pp. 39890-39894., Registrované v: WOS
- ADCA457 MALOVÍKOVÁ, Anna - HAYAKAWA, K. - KWAK, J.C.T. Surfactant-polyelectrolyte interactions. IV. Surfactant chain length dependence of the binding of alkylpyridinium cation to dextran sulfate. In Journal of physical chemistry, 1984, vol. 88, p. 1930-1933. ISSN 0022-3654.
- Citácie:
1. [1.2] ALI, Anwar - UZAIR, Sahar - FAROOQ, Ummer. Interactions of cationic, anionic and nonionic surfactants with cresol red dye in aqueous solutions: Conductometric, tensiometric, and spectroscopic studies. In Tenside, Surfactants, Detergents. ISSN 09323414, 2017-07-01, 54, 4, pp. 342-352., Registrované v: SCOPUS
- ADCA458 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. ISSN 1435-8603.

Citácie:

1. [1.1] BAI, Yun - WU, Dan - LIU, Fei - LI, Yuyang - CHEN, Peng - LU, Mengzhu - ZHENG, Bo. Characterization and Functional Analysis of the Poplar Pectate Lyase-Like Gene PtPL1-18 Reveal Its Role in the Development of Vascular Tissues. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] CHEN, Da - HARRIS, Philip J. - SIMS, Ian M. - ZUJOVIC, Zoran - MELTON, Laurence D. Polysaccharide compositions of collenchyma cell walls from celery (*Apium graveolens* L.) petioles. In *BMC PLANT BIOLOGY*. ISSN 1471-2229, 2017, vol. 17, no., pp., Registrované v: WOS
3. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS
4. [1.1] GOULAO, Luis F. - FERNANDES, Joao C. - AMANCIO, Sara. How the Depletion in Mineral Major Elements Affects Grapevine (*Vitis vinifera* L.) Primary Cell Wall. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] GUILLON, Fabienne - MOISE, Adeline - QUEMENER, Bernard - BOUCHET, Brigitte - DEVAUX, Marie-Francoise - ALVARADO, Camille - LAHAYE, Marc. Remodeling of pectin and hemicelluloses in tomato pericarp during fruit growth. In *PLANT SCIENCE*. ISSN 0168-9452, 2017, vol. 257, no., pp. 48-62., Registrované v: WOS
6. [1.1] KIM, Jong Sik - DANIEL, Geoffrey. Immunolocalization of pectin and hemicellulose epitopes in the phloem of Norway spruce and Scots pine. In *TREES-STRUCTURE AND FUNCTION*. ISSN 0931-1890, 2017, vol. 31, no. 4, pp. 1335-1353., Registrované v: WOS
7. [1.1] KREITSCHITZ, Agnieszka - GORB, Stanislav N. How does the cell wall 'stick' in the mucilage? A detailed microstructural analysis of the seed coat mucilaginous cell wall. In *FLORA*. ISSN 0367-2530, 2017, vol. 229, no., pp. 9-22., Registrované v: WOS
8. [1.1] PALEVICH, Nikola - KELLY, William J. - LEAHY, Sinead C. - ALTERMANN, Eric - RAKONJAC, Jasna - ATTWOOD, Graeme T. The complete genome sequence of the rumen bacterium *Butyrivibrio hungatei* MB2003. In *STANDARDS IN GENOMIC SCIENCES*. ISSN 1944-3277, 2017, vol. 12, no., pp., Registrované v: WOS
9. [1.1] PERASSOLO GUEDES, Fernanda Trilstz - LAURANS, Francoise - QUEMENER, Bernard - ASSOR, Carole - LAINE-PRADE, Veronique - BOIZOT, Nathalie - VIGOUROUX, Jacqueline - LESAGE-DESCAUSES, Marie-Claude - LEPLÉ, Jean-Charles - DEJARDIN, Annabelle - PILATE, Gilles. Non-cellulosic polysaccharide distribution during G-layer formation in poplar tension wood fibers: abundance of rhamnogalacturonan I and arabinogalactan proteins but no evidence of xyloglucan. In *PLANTA*. ISSN 0032-0935, 2017, vol. 246, no. 5, pp. 857-878., Registrované v: WOS
10. [1.1] REBAQUE, Diego - MARTINEZ-RUBIO, Romina - FORNALE, Silvia - GARCIA-ANGULO, Penelope - ALONSO-SIMON, Ana - ALVAREZ, Jesus M. - CAPARROS-RUIZ, David - ACEBES, Jose L. - ENCINA, Antonio. Characterization of structural cell wall polysaccharides in cattail (*Typha latifolia*): Evaluation as potential biofuel feedstock. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 679-688., Registrované v: WOS
11. [1.1] SHI, Da-chuan - WANG, Juan - HU, Rui-bo - ZHOU, Gong-ke - O'NEILL, Malcolm A. - KONG, Ying-zhen. Boron-bridged RG-II and calcium are required to maintain the pectin network of the *Arabidopsis* seed mucilage ultrastructure. In *PLANT MOLECULAR BIOLOGY*. ISSN 0167-4412, 2017, vol. 94, no. 3, pp. 267-280., Registrované v: WOS
12. [1.1] STEPINSKI, Dariusz - KWIATKOWSKA, Maria - WOJTCZAK, Agnieszka - DOMINGUEZ, Eva - HEREDIA, Antonio - POPLONSKA, Katarzyna. Cutinsomes as building-blocks of *Arabidopsis thaliana* embryo cuticle. In *PHYSIOLOGIA PLANTARUM*. ISSN 0031-9317, 2017, vol. 161, no. 4, pp. 560-567., Registrované v: WOS
13. [1.1] VAN DE MEENE, A. M. L. - DOBLIN, M. S. - BACIC, Antony. The plant secretory pathway seen through the lens of the cell wall. In *PROTOPLASMA*. ISSN 0033-183X, 2017, vol. 254, no. 1, pp. 75-94., Registrované v: WOS
14. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174., Registrované v: WOS
15. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS

- ADCA459 MAREŠKA, Václav - TVAROŠKA, Igor - KRÁLOVÁ, Blanka - SPIWOK, Vojtěch. Molecular simulations of hevein/(GlcNAc)₃ complex with weakened OH/O and CH/ π hydrogen bonds: implications for their role in complex stabilization. In *Carbohydrate Research*, 2015, vol. 408, p. 1-7. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.1] CUETARA-GUADARRAMA, Fabian - RAMIREZ-GUALITO, Karla - CUEVAS, Gabriel. Study of CH/ π Interactions in the Molecular Recognition between Acetyl Galactopyranoside and 6-substituted 2-Methoxypyridines and 2(1H)-Pyridones. In *JOURNAL OF THE MEXICAN CHEMICAL SOCIETY*. ISSN 1870-249X, 2017, vol. 61, no. 3, pp. 205-216., Registrované v: WOS
2. [1.1] SLAVOKHOTOVA, A. A. - SHELENKOV, A. A. - ANDREEV, Ya. A. - ODINTSOVA, T. I. Hevein-Like Antimicrobial Peptides of Plants. In *BIOCHEMISTRY-MOSCOW*. ISSN 0006-2979, 2017, vol. 82, no. 13, pp. 1659-1674., Registrované v: WOS
- ADCA460 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] CHEN, X.J. - LI, L.L. - ZHANG, Y. - ZHANG, J.H. - OUYANG, S.Q. - ZHANG, Q.X. - TONG, Y.H. - XU, J.Y. - ZUO, S.M. In *EUROPEAN JOURNAL OF PLANT PATHOLOGY*. OCT 2017, vol. 149, no. 2, p. 491-502., Registrované v: WOS
2. [1.1] EVANGELISTA, D.E. - DE ARAUJO, E.A. - NETO, M.O. - KADOWAKI, M.A.S. - POLIKARPOV, I. In *NEW BIOTECHNOLOGY*. JAN 25 2017, vol. 40, B, p. 268-274., Registrované v: WOS
3. [1.1] LIU, N.N. - MA, X.W. - SUN, Y. - HOU, Y.X. - ZHANG, X.Y. - LI, F.G. In *PLANT DISEASE*. JUL 2017, vol. 101, no. 7, p. 1128-1138., Registrované v: WOS
- ADCA461 MARKOVIČ, Oskar - JORNVALL, H. Pectinesterase - the primary structure of the tomato enzyme. In *European Journal of Biochemistry*, 1986, vol. 158, p. 455-462. ISSN 0014-2956.
Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. P14280. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P14280>, Registrované v: WOS
- ADCA462 MARKOVIČ, Oskar - KOHN, Rudolf. Mode of pectin deesterification by *Trichoderma reesei* pectinesterase. In *Experientia : interdisciplinary journal of life sciences*, 1984, vol. 40, p. 842-843. ISSN 0014-4754.
Citácie:
1. [1.1] SALAS-TOVAR, Jesus A. - FLORES-GALLEGOS, Adriana C. - CONTRERAS-ESQUIVEL, Juan C. - ESCOBEDO-GARCIA, S. - MORLETT-CHAVEZ, Jesus A. - RODRIGUEZ-HERRERA, Raul. Analytical Methods for Pectin Methylsterase Activity Determination: a Review. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2017, vol. 10, no. 11, pp. 3634-3646., Registrované v: WOS
- ADCA463 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin methylsterases: sequence-structural features and phylogenetic relationships. In *Carbohydrate Research*, 2004, vol. 339, p. 2281-2295. (1.533 - IF2003). (2004 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.1] ASLER, I.L. - STEFANIC, P.P. - BALEN, B. - ALLMAIER, G. - MARCHETTI-DESCHMANN, M. - KOJIC-PRODIC, B. In *PLANT CELL TISSUE AND ORGAN CULTURE*. JUL 2017, vol. 130, no. 1, p. 13-24., Registrované v: WOS
2. [1.1] GENG, X.Y. - HORST, W.J. - GOLZ, J.F. - LEE, J.E. - DING, Z.J. - YANG, Z.B. In *PLANT JOURNAL*. MAY 2017, vol. 90, no. 3, p. 491-504., Registrované v: WOS
3. [1.1] GOULAO, L.F. - FERNANDES, J.C. - AMANCIO, S. In *FRONTIERS IN PLANT SCIENCE*. AUG 21 2017, vol. 8., Registrované v: WOS
4. [1.1] Group Author(s): Uniprot Consortium, Registrované v: WOS
5. [1.1] Group Author(s): Uniprot Consortium, Registrované v: WOS
6. [1.1] Group Author(s): Uniprot Consortium, Registrované v: WOS
7. [1.1] Group Author(s): Uniprot Consortium, Registrované v: WOS
8. [1.1] Group Author(s): Uniprot Consortium. O04953. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O04953>, Registrované v: WOS
9. [1.1] Group Author(s): Uniprot Consortium. O22149. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O22149>, Registrované v: WOS
10. [1.1] Group Author(s): Uniprot Consortium. O22256. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O22256>, Registrované v: WOS
11. [1.1] Group Author(s): Uniprot Consortium. O23447. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O23447>, Registrované v: WOS
12. [1.1] Group Author(s): Uniprot Consortium. O48711. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O48711>, Registrované v: WOS

13. [1.1] Group Author(s): Uniprot Consortium. O49006. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O49006>, Registrované v: WOS
14. [1.1] Group Author(s): Uniprot Consortium. O64479. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O64479>, Registrované v: WOS
15. [1.1] Group Author(s): Uniprot Consortium. O80722. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O80722>, Registrované v: WOS
16. [1.1] Group Author(s): Uniprot Consortium. Q1JPL7. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q1JPL7>, Registrované v: WOS
17. [1.1] Group Author(s): Uniprot Consortium. Q1PEC0. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q1PEC0>, Registrované v: WOS
18. [1.1] Group Author(s): Uniprot Consortium. Q3E989. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q3E989>, Registrované v: WOS
19. [1.1] Group Author(s): Uniprot Consortium. Q3E9D3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: WOS
20. [1.1] Group Author(s): Uniprot Consortium. Q3E9D3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q3E9D3>, Registrované v: WOS
21. [1.1] Group Author(s): Uniprot Consortium. Q43867. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q43867>, Registrované v: WOS
22. [1.1] Group Author(s): Uniprot Consortium. Q4PT34. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q4PT34>, Registrované v: WOS
23. [1.1] Group Author(s): Uniprot Consortium. Q5MFV8. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q5MFV8>, Registrované v: WOS
24. [1.1] Group Author(s): Uniprot Consortium. Q7Y201. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q7Y201>, Registrované v: WOS
25. [1.1] Group Author(s): Uniprot Consortium. Q84JX1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q84JX1>, Registrované v: WOS
26. [1.1] Group Author(s): Uniprot Consortium. Q84R10. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q84R10>, Registrované v: WOS
27. [1.1] Group Author(s): Uniprot Consortium. Q84WM7. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q84WM7>, Registrované v: WOS
28. [1.1] Group Author(s): Uniprot Consortium. Q8GX86. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q8GX86>, Registrované v: WOS
29. [1.1] Group Author(s): Uniprot Consortium. Q8GXA1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q8GXA1>, Registrované v: WOS
30. [1.1] Group Author(s): Uniprot Consortium. Q8VYZ3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q8VYZ3>, Registrované v: WOS
31. [1.1] Group Author(s): Uniprot Consortium. Q94CB1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q94CB1>, Registrované v: WOS
32. [1.1] Group Author(s): Uniprot Consortium. Q9FF77. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9FF77>, Registrované v: WOS
33. [1.1] Group Author(s): Uniprot Consortium. Q9FF78. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9FF78>, Registrované v: WOS
34. [1.1] Group Author(s): Uniprot Consortium. Q9FHN5. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9FHN5>, Registrované v: WOS
35. [1.1] Group Author(s): Uniprot Consortium. Q9FJ21. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9FJ21>, Registrované v: WOS
36. [1.1] Group Author(s): Uniprot Consortium. Q9LUL8. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9LUL8>, Registrované v: WOS
37. [1.1] Group Author(s): Uniprot Consortium. Q9LY17. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9LY17>, Registrované v: WOS
38. [1.1] Group Author(s): Uniprot Consortium. Q9LY18. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9LY18>, Registrované v: WOS
39. [1.1] Group Author(s): Uniprot Consortium. Q9LY19. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9LY19>, Registrované v: WOS
40. [1.1] Group Author(s): Uniprot Consortium. Q9M3B0. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9M3B0>, Registrované v: WOS
41. [1.1] Group Author(s): Uniprot Consortium. Q9M9W7. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9M9W7>, Registrované v: WOS
42. [1.1] Group Author(s): Uniprot Consortium. Q9MAL0. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9MAL0>, Registrované v: WOS
43. [1.1] Group Author(s): Uniprot Consortium. Q9SG77. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9SG77>, Registrované v: WOS
44. [1.1] Group Author(s): Uniprot Consortium. Q9SIJ9. In: UniProt Knowledgebase Source

URL: <http://www.uniprot.org/uniprot/Q9SIJ9>, Registrované v: WOS
 45. [1.1] Group Author(s): Uniprot Consortium. Q9SMY6. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9SMY6>, Registrované v: WOS
 46. [1.1] Group Author(s): Uniprot Consortium. Q9SMY7. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9SMY7>, Registrované v: WOS
 47. [1.1] Group Author(s): Uniprot Consortium. Q9STY3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9STY3>, Registrované v: WOS
 48. [1.1] Group Author(s): Uniprot Consortium. Q9ZQA3. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9ZQA3>, Registrované v: WOS
 49. [1.1] Group Author(s): Uniprot Consortium. Q9ZQA4. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9ZQA4>, Registrované v: WOS
 50. [1.1] Group Author(s): Uniprot Consortium. Q9SKX2. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q9SKX2>, Registrované v: WOS
 51. [1.1] OWEN, J.L. - KENT, L.M. - RALET, M.C. - CAMERON, R.G. - WILLIAMS, M.A.K. In CARBOHYDRATE POLYMERS. JUL 15 2017, vol. 168, p. 365-373., Registrované v: WOS
 52. [1.2] LEŠČIĆ AŠLER, Ivana - PEHAREC ŠTEFANIĆ, Petra - BALEN, Biljana - ALLMAIER, Günter - MARCHETTI-DESCHMANN, Martina - KOJIC-PRODIĆ, Biserka. Horseradish esterases: detection, purification and identification. In Plant Cell, Tissue and Organ Culture. ISSN 01676857, 2017-07-01, 130, 1, pp. 13-24., Registrované v: SCOPUS

ADCA464 MARKOVIĆ, Oskar - JORNVALL, H. Disulfide bridges in tomato pectinesterase: Variations from pectinesterases of other species: conservation of possible active segments. In Protein Science, 1992, vol. 1, p. 1288-1292. ISSN 0961-8368.

Citácie:

1. [1.1] Group Author(s): Uniprot Consortium. P14280. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P14280>, Registrované v: WOS

ADCA465 MARKOVIĆ, Oskar - CEDERLUND, E. - GRIFFITHS, W.J. - LIPKA, Tibor - JORNWALL, H. Characterization of carrot pectin methylesterase. In Cellular and Molecular Life Sciences, 2002, vol. 59, p. 513-518.

Citácie:

1. [1.1] Group Author(s): Uniprot Consortium. P83218. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P83218>, Registrované v: WOS

2. [1.1] KATSAROS, G. J. - ALEXANDRAKIS, Z. S. - TAOUKIS, P. S. Kinetic Assessment of High Pressure Inactivation of Different Plant Origin Pectinmethylesterase Enzymes. In FOOD ENGINEERING REVIEWS. ISSN 1866-7910, 2017, vol. 9, no. 3, pp. 170-189., Registrované v: WOS

3. [1.1] SHESHUKOVA, Ekaterina V. - KOMAROVA, Tatiana V. - POZDYSHEV, Denis V. - ERSHOVA, Natalia M. - SHINDYAPINA, Anastasia V. - TASHLITSKY, Vadim N. - SHEVAL, Eugene V. - DOROKHOV, Yuri L. The Intergenic Interplay between Aldose 1-Epimerase-Like Protein and Pectin Methylesterase in Abiotic and Biotic Stress Control. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

4. [1.1] WALLACE, Simon - WILLIAMS, Joseph H. Evolutionary origins of pectin methylesterase genes associated with novel aspects of angiosperm pollen tube walls. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2017, vol. 487, no. 3, pp. 509-516., Registrované v: WOS

ADCA466 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] BYDLINSKI, Nina - HARREITHER, Eva - BAUMANN, Martina. The 6th International Conference on Analysis of Microbial Cells at the Single Cell Level, Retz, Austria, 19-22 July 2015. In New Biotechnology. ISSN 1871-6784, 2017, vol. 34, no., pp. 68-72., Registrované v: WOS

ADCA467 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. (4.030 - IF2011). (2012 - Current Contents). ISSN 0305-7364.

Citácie:

1. [1.1] BARBERON, Marie. The endodermis as a checkpoint for nutrients. In NEW PHYTOLOGIST. ISSN 0028-646X, 2017, vol. 213, no. 4, pp. 1604-1610., Registrované v: WOS

2. [1.1] LI, Baohai - KAMIYA, Takehiro - KALMBACH, Lothar - YAMAGAMI, Mutsumi - YAMAGUCHI, Katsushi - SHIGENOBU, Shuji - SAWA, Shinichiro - DANKU, John M. C. - SALT, David E. - GELDNER, Niko - FUJIWARA, Toru. Role of LOTR1 in Nutrient Transport through Organization of Spatial Distribution of Root Endodermal Barriers. In CURRENT BIOLOGY. ISSN 0960-9822, 2017, vol. 27, no. 5, pp. 758-765., Registrované v: WOS

3. [1.1] TAO, Qi - JUPA, Radek - LUO, Jipeng - LUX, Alexander - KOVAC, Jan - WEN, Yue - ZHOU, Yimei - JAN, Japenga - LIANG, Yongchao - LI, Tingqiang. The apoplasmic pathway via the root apex and lateral roots contributes to Cd hyperaccumulation in the hyperaccumulator *Sedum alfredii*. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 3, pp. 739-751., Registrované v: WOS
 4. [1.1] WANG, Pei - CUI, Yan Nong - GAO, Li - WANG, Suo Min. Construction of RNAi expression vector of CYP86A gene in halophyte *Puccinellia tenuiflora*. In Acta Prataculturae Sinica. ISSN 10045759, 2017-06-20, 26, 6, pp. 105-110., Registrované v: SCOPUS
 5. [1.1] ZELKO, Ivan - OUVARD, Stephanie - SIRGUEY, Catherine. Roots alterations in presence of phenanthrene may limit co-remediation implementation with *Noccaea caerulea*. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 24, pp. 19653-19661., Registrované v: WOS
- ADCA468 MASLER, Ladislav - ŠIKL, J. - BAUER, Štefan - ŠANDULA, Jozef. Extracellular polysaccharide-protein complexes produced by selected strains of *Candida albicans* (Robin) Berkhout. In Folia Microbiologica, 1966, vol. 11, p. 373-378. ISSN 0015-5632.
- Citácie:
1. [1.1] WESTER, Michael J. - LIN, Jia - NEUMANN, Aaron K. A computational model for regulation of nanoscale glucan exposure in *Candida albicans*. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
- ADCA469 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.
- Citácie:
1. [1.1] PALANISWAMY, Sakthi Kumaran - GOVINDASWAMY, Vijayalakshmi. A Zymogram technique for preliminary screening and characterization of feruloyl esterases. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 101, no., pp. 57-59., Registrované v: WOS
 2. [1.1] PEREZ-RODRIGUEZ, N. - TORRADO AGRASAR, A. - DOMINGUEZ, J. M. High hydrostatic pressure as pretreatment and adjuvant for the enzymatic release of ferulic acid from corn cob. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 58, no., pp. 204-210., Registrované v: WOS
 3. [1.1] RAJARAPU, Swapna Priya - SCHARF, Michael E. Saccharification of agricultural Lignocellulose Feedstocks and Protein-Level Responses by a Termite Gut-Microbe Bioreactor. In FRONTIERS IN ENERGY RESEARCH. ISSN 2296-598X, 2017, vol. 5, no., pp., Registrované v: WOS
- ADCA470 MASTIHUBOVÁ, Mária - BIELY, Peter. A common access to 2- and 3-substituted methyl beta-D-xylopyranosides. In Tetrahedron Letters, 2001, vol. 42, p. 9065-9067. ISSN 0040-4039.
- Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
- ADCA471 MASTIHUBOVÁ, Mária - BIELY, Peter. Deoxy and deoxyfluoro analogues of acetylated methyl β-D-xylopyranoside - substrates for acetylxyylan esterases. In Carbohydrate Research, 2004, vol. 339, p. 2101-2110. (1.533 - IF2003). (2004 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
 2. [1.1] YAN, Nan - LEI, Zhi-Wei - SU, Jia-Kun - LIAO, Wei-Lin - HU, Xiang-Guo. Ring opening of sugar-derived epoxides by TBAF/KHF₂: An attractive alternative for the introduction of fluorine into the carbohydrate scaffold. In CHINESE CHEMICAL LETTERS. ISSN 1001-8417, 2017, vol. 28, no. 2, pp. 467-470., Registrované v: WOS
- ADCA472 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. (2.697 - IF2015). (2016 - Current Contents). ISSN 1860-5397.
- Citácie:
1. [1.1] KHONG, Duc Thinh - JUDEH, Zaher M. A. Total synthesis of phenylpropanoid glycoside osmanthuside-B-6 facilitated by double isomerisation of glucose-rhamnose orthoesters. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 12, pp. 2638-2646., Registrované v: WOS
- ADCA473 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. (1.533 - IF2003). (2004 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] GE, Jian-Tao - ZHOU, Lang - ZHAO, Fu-Long - DONG, Hai. Straightforward S-S Bond Formation via the Oxidation of S-Acetyl by Iodine in the Presence of N-Iodosuccinimide. In *JOURNAL OF ORGANIC CHEMISTRY*. ISSN 0022-3263, 2017, vol. 82, no. 23, pp. 12613-12623., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
3. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
4. [1.1] PAWAR, Prashant Mohan-Anupama - DERBA-MACELUCH, Marta - CHONG, Sun-Li - GANDLA, Madhavi Latha - BASHAR, Shamrat Shafiu - SPARRMAN, Tobias - AHVENAINEN, Patrik - HEDENSTROM, Mattias - OZPARPUCU, Merve - RUGGERBERG, Markus - SERIMAA, Ritva - LAWOKO, Martin - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. In muro deacetylation of xylan affects lignin properties and improves saccharification of aspen wood. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
5. [1.1] PAWAR, Prashant Mohan-Anupama - RATKE, Christine - BALASUBRAMANIAN, Vimal K. - CHONG, Sun-Li - GANDLA, Madhavi Latha - ADRIASOLA, Mathilda - SPARRMAN, Tobias - HEDENSTROM, Mattias - SZWAJ, Klaudia - DERBA-MACELUCH, Marta - GAERTNER, Cyril - MOUILLE, Gregory - EZCURRA, Ines - TENKANEN, Maija - JONSSON, Leif J. - MELLEROWICZ, Ewa J. Downregulation of RWA genes in hybrid aspen affects xylan acetylation and wood saccharification. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 214, no. 4, pp. 1491-1505., Registrované v: WOS
6. [1.1] ZHANG, Baocai - ZHANG, Lanjun - LI, Feng - ZHANG, Dongmei - LIU, Xiangling - WANG, Hang - XU, Zuopeng - CHU, Chengcai - ZHOU, Yihua. Control of secondary cell wall patterning involves xylan deacetylation. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 3, pp., Registrované v: WOS

ADCA474

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. (2.338 - IF2012). (2013 - Current Contents). ISSN 0960-894X.

Citácie:

1. [1.1] ANTONOPOULOU, Io - LEONOV, Laura - JUETTEN, Peter - CERULLO, Gabriella - FARACO, Vincenza - PAPADOPOULOU, Adamantia - KLETSAS, Dimitris - RALLI, Marianna - ROVA, Ulrika - CHRISTAKOPOULOS, Paul. Optimized synthesis of novel prenyl ferulate performed by feruloyl esterases from *Myceliophthora thermophila* in microemulsions. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3213-3226., Registrované v: WOS
2. [1.1] HERMANKOVA-VAVRIKOVA, Eva - KRENKOVA, Alena - PETRASKOVA, Lucie - CHAMBERS, Christopher Steven - ZAPAL, Jakub - KUZMA, Marek - VALENTOVA, Katerina - KREN, Vladimir. Synthesis and Antiradical Activity of Isoquercitrin Esters with Aromatic Acids and Their Homologues. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 5, pp., Registrované v: WOS

ADCA475

MAŠTEROVÁ, I. - SUCHÝ, V. - UHRÍN, Dušan - UBÍK, K. - GRANČAIOVÁ, Z. - BOBOVNICKÝ, B. Homoisoflavanones and other constituents from *Muscari racemosum*. In *Phytochemistry*, 1991, vol. 30, p. 713-714. ISSN 0031-9422.

Citácie:

1. [1.1] CASTELLI, M. V. - LOPEZ, S. N. Homoisoflavonoids: Occurrence, Biosynthesis, and Biological Activity. In *STUDIES IN NATURAL PRODUCTS CHEMISTRY, VOL 54*. ISSN 1572-5995, 2017, vol. 54, no., pp. 315-354., Registrované v: WOS
2. [1.1] SCHWIKKARD, Sianne - ALQAHTANI, Alaa - KNIRSCH, Walter - WETSCHNIG, Wolfgang - JAKSEVICIUS, Andrius - OPARA, Elizabeth I. - LANGAT, Moses K. - ANDRIANTIANA, Jackie L. - MULHOLLAND, Dulcie A. Phytochemical Investigations of Three *Rhodocodon* (Hyacinthaceae Ssensu APG II) Species. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 1, pp. 30-37., Registrované v: WOS

ADCA476

MAŠTEROVÁ, I. - UHRÍN, Dušan - TOMKO, J. Lilaline-a flavonoid alkaloid from *Lilium candidum*. In *Phytochemistry*, 1987, vol. 26, p. 1844-1845. ISSN 0031-9422.

Citácie:

1. [1.2] BLAIR, Lachlan M. - CALVERT, Matthew B. - SPERRY, Jonathan. Flavalkaloids—

- Isolation, Biological Activity, and Total Synthesis. In Alkaloids: Chemistry and Biology. ISSN 10994831, 2017-01-01, 77, pp. 85-115., Registrované v: SCOPUS*
 2. [1.2] *Flavones and flavonols. In The Flavonoids: Advances in Research since 1986, 2017-01-01, pp. 259-336., Registrované v: SCOPUS*
- ADCA477 MAŠTEROVÁ, I. - GRANČAIOVÁ, Z. - UHRÍNOVÁ, S. - SUCHÝ, V. - UBÍK, K. - NAGY, M. Flavonoids in flowers of *Calendula officinalis* L. In Chemical Papers - Chemické zvesti, 1991, vol. 45, p. 105-108. ISSN 0366-6352.
 Citácie:
 1. [1.1] *OLENNIKOV, Daniil N. - KASHCHENKO, Nina I. - CHIRIKOVA, Nadezhda K. - AKOBIRSHOEVA, Anzurat - ZILFIKAROV, Ifrat N. - VENNOS, Cecile. Isorhamnetin and Quercetin Derivatives as Anti-Acetylcholinesterase Principles of Marigold (Calendula officinalis) Flowers and Preparations. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1422-0067, 2017, vol. 18, no. 8, pp., Registrované v: WOS*
- ADCA478 MATULOVÁ, Mária - VERCHERE, J.F. - CHAPELLE, S. Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose. In Carbohydrate Research, 1996, vol. 287, p. 37-48. (1.506 - IF1995). ISSN 0008-6215.
 Citácie:
 1. [1.1] *COWAN, A. Keith. Occurrence, metabolism, transport and function of seven-carbon sugars. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2017, vol. 16, no. 1, pp. 137-157., Registrované v: WOS*
- ADCA479 MATULOVÁ, Mária - HRICOVÍNIOVÁ, Zuzana. NMR studies of molybdate complexes of D-erythro-L-manno-octose and D-erythro-L-gluco-octose and their alditols. In Carbohydrate Research, 2002, vol. 337, p. 1745-1756. (1.349 - IF2001). (2002 - Current Contents). ISSN 0008-6215.
 Citácie:
 1. [1.1] *CREA, Francesco - DE STEFANO, Concetta - IRTO, Anna - MILEA, Demetrio - PETTIGNANO, Alberto - SAMMARTANO, Silvio. Modeling the acid-base properties of molybdate(VI) in different ionic media, ionic strengths and temperatures, by EDH, SIT and Pitzer equations. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 229, no., pp. 15-26., Registrované v: WOS*
- ADCA480 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. (1.898 - IF2010). (2011 - Current Contents). ISSN 0008-6215.
 Citácie:
 1. [1.1] *DJURIC, Aleksandra - GOJGIC-CVIJOVIC, Gordana - JAKOVLJEVIC, Dragica - KEKEZ, Branka - KOJIC, Jovana Stefanovic - MATTINEN, Maija-Liisa - HARJU, Inka Elina - VRVIC, Miroslav M. - BESKOSKI, Vladimir P. Brachybacterium sp CH-KOV3 isolated from an oil-polluted environment-a new producer of levan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 311-321., Registrované v: WOS*
 2. [1.1] *MISRA, Sankalp - DIXIT, Vijay Kant - KHAN, Mohammad Haneef - MISHRA, Shashank Kumar - DVIWEDI, Gyanendra - YADAV, Sumit - LEHRI, Alok - CHAUHAN, Puneet Singh. Exploitation of agro-climatic environment for selection of 1-aminocyclopropane-1-carboxylic acid (ACC) deaminase producing salt tolerant indigenous plant growth promoting rhizobacteria. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2017, vol. 205, no., pp. 25-34., Registrované v: WOS*
 3. [1.1] *SANCHES LOPES, Sheila Mara - KRAUSOVA, Gabriela - PEDROZA CARNEIRO, Jose Walter - GONCALVES, Jose Eduardo - CORREIA GONCALVES, Regina Aparecida - BRAZ DE OLIVEIRA, Arildo Jose. A new natural source for obtainment of inulin and fructo-oligosaccharides from industrial waste of Stevia rebaudiana Bertoni. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 225, no., pp. 154-161., Registrované v: WOS*
- ADCA481 MATULOVÁ, Mária - NOUAÏLLE, R. - CAPEK, Peter - PÉAN, M. - DELORT, A.-M. - FORANO, E. NMR study of cellulose and wheat straw degradation by *Ruminococcus albus* 20. In FEBS Journal, 2008, vol. 275, p. 3503-3512. (3.396 - IF2007). (2008 - Current Contents, WOS). ISSN 1742-464X.
 Citácie:
 1. [1.1] *KANNAIYAN, Ranjani - MAHINPEY, Nader - KOSTENKO, Victoria - MARTINUZZI, Robert J. Enhanced Delignification of Wheat Straw by the Combined Effect of Hydrothermal and Fungal Treatments. In CHEMICAL ENGINEERING COMMUNICATIONS. ISSN 0098-6445, 2017, vol. 204, no. 7, pp. 803-812., Registrované v: WOS*
 2. [1.1] *QU, Tianjiao - ZHANG, Ximing - GU, Xingwei - HAN, Lujia - JI, Guanya - CHEN, Xueli - XIAO, Weihua. Ball Milling for Biomass Fractionation and Pretreatment with Aqueous Hydroxide Solutions. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5,*

- ADCA482 *no. 9, pp. 7733-7742., Registrované v: WOS*
MATULOVÁ, Mária - NOUAILLE, R. - CAPEK, Peter - PÉAN, M. - FORANO, E. - DELORT, A.-M. Degradation of wheat straw by *Fibrobacter succinogenes* S85: a liquid- and solid-state nuclear magnetic resonance study. In *Applied and Environmental Microbiology*, 2005, vol. 71, p. 1247-1253. (3.810 - IF2004). (2005 - Current Contents). ISSN 0099-2240.
 Citácie:
 1. [1.1] KANNAIYAN, Ranjani - MAHINPEY, Nader - KOSTENKO, Victoria - MARTINUZZI, Robert J. Enhanced Delignification of Wheat Straw by the Combined Effect of Hydrothermal and Fungal Treatments. In *CHEMICAL ENGINEERING COMMUNICATIONS*. ISSN 0098-6445, 2017, vol. 204, no. 7, pp. 803-812., Registrované v: WOS
 2. [1.1] WANG, Sumeng - WANG, Zhaobao - WANG, Yongchao - NIE, Qingjuan - YI, Xiaohua - GE, Wei - YANG, Jianming - XIAN, Mo. Production of isoprene, one of the high-density fuel precursors, from peanut hull using the high-efficient lignin-removal pretreatment method. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
- ADCA483 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. (1.898 - IF2010). (2011 - Current Contents). ISSN 0008-6215.
 Citácie:
 1. [1.1] SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. - MAKAROVA, Elena N. Structural characteristics of water-soluble polysaccharides from Norway spruce (*Picea abies*). In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 699-711., Registrované v: WOS
- ADCA484 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. (5.481 - IF2013). (2014 - Current Contents). ISSN 0013-936X.
 Citácie:
 1. [1.1] MAKI, Teruya - HARA, Kazutaka - IWATA, Ayumu - LEE, Kevin C. - KAWAI, Kei - KAI, Kenji - KOBAYASHI, Fumihisa - POINTING, Stephen B. - ARCHER, Stephen - HASEGAWA, Hiroshi - IWASAKA, Yasunobu. Variations in airborne bacterial communities at high altitudes over the Noto Peninsula (Japan) in response to Asian dust events. In *ATMOSPHERIC CHEMISTRY AND PHYSICS*. ISSN 1680-7316, 2017, vol. 17, no. 19, pp. 11877-11897., Registrované v: WOS
- ADCA485 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.
 Citácie:
 1. [1.1] HALDER, Urmi - BANERJEE, Aparna - BANDOPADHYAY, Rajib. Structural and Functional Properties, Biosynthesis, and Patenting Trends of Bacterial Succinoglycan: A Review. In *INDIAN JOURNAL OF MICROBIOLOGY*. ISSN 0046-8991, 2017, vol. 57, no. 3, pp. 278-284., Registrované v: WOS
 2. [1.1] URAI, Makoto - AIZAWA, Tomoko - IMAMURA, Katsutoshi - HAMAMOTO, Hiroshi - SEKIMIZU, Kazuhisa. Characterization of the chemical structure and innate immune-stimulating activity of an extracellular polysaccharide from *Rhizobium* sp. strain M2 screened using a silkworm muscle contraction assay. In *DRUG DISCOVERIES AND THERAPEUTICS*. ISSN 1881-7831, 2017, vol. 11, no. 5, pp. 238-245., Registrované v: WOS
- ADCA486 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. (4.654 - IF2012). (2013 - Current Contents). ISSN 0264-6021.
 Citácie:
 1. [1.1] ARAUJO, Danielle Silva - LIMA, Patricia de Sousa - BAEZA, Lilian Cristiane - ALVES PARENTE, Ana Flavia - BILAO, Alexandre Melo - BORGES, Clayton Luiz - DE ALMEIDA SOARES, Celia Maria. Employing proteomic analysis to compare *Paracoccidioides lutzii* yeast and mycelium cell wall proteins. In *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS*. ISSN 1570-9639, 2017, vol. 1865, no. 11, pp. 1304-1314., Registrované v: WOS
- ADCA487 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. (5.016 - IF2010). (2011 - Current Contents). ISSN 0264-6021.

Citácie:

1. [1.1] AO, Jie - FREE, Stephen J. Genetic and biochemical characterization of the GH72 family of cell wall transglycosylases in *Neurospora crassa*. In *FUNGAL GENETICS AND BIOLOGY*. ISSN 1087-1845, 2017, vol. 101, no., pp. 46-54., Registrované v: WOS

2. [1.1] MOGHADDAM, Mohammad-Reza Bolouri - VILCINSKAS, Andreas - RAHNAMAEIAN, Mohammad. The insect-derived antimicrobial peptide metchnikowin targets *Fusarium graminearum* beta(1,3)-glucanotransferase Gell, which is required for the maintenance of cell wall integrity. In *BIOLOGICAL CHEMISTRY*. ISSN 1431-6730, 2017, vol. 398, no. 4, pp. 491-498., Registrované v: WOS

- ADCA488 MIADOKOVÁ, Eva - RAUKO, Peter - KOGAN, Grigorij - VLČKOVÁ, Eva - SVIDOVÁ, Soňa - DÚHOVÁ, Viola - NAĐOVÁ, S. Diverse biomodulatory effects of glucomannan from *Candida utilis*. In *Toxicology in vitro*, 2006, vol. 20, p. 649-657. (0.772 - IF2005). ISSN 0887-2333.

Citácie:

1. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENTKA, Iwona - KURCZ, Agnieszka. Biotechnological use of *Candida* yeasts in the food industry: A review. In *FUNGAL BIOLOGY REVIEWS*. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS

- ADCA489 MIKULÁŠOVÁ, M. - KOŠÍKOVÁ, Božena. Modulation of mutagenicity of various mutagens by lignin derivatives. In *Mutation Research*, 2003, vol. 535, p. 171-180. ISSN 1568-7864.

Citácie:

1. [1.1] GARCIA, Araceli - SPIGNO, Giorgia - LABIDI, Jalel. Antioxidant and biocide behaviour of lignin fractions from apple tree pruning residues. In *INDUSTRIAL CROPS AND PRODUCTS*. ISSN 0926-6690, 2017, vol. 104, no., pp. 242-252., Registrované v: WOS

2. [1.2] MORGANTI, Pierfrancesco - STOLLER, Marco. Chitin and lignin: Natural ingredients from waste materials to make innovative and healthy products for humans and plant. In *Chemical Engineering Transactions*, 2017-01-01, 60, pp. 319-324., Registrované v: SCOPUS

- ADCA490 MIKUŠOVÁ, Lucia - CIESAROVÁ, Zuzana - HROMÁDKOVÁ, Zdenka - VALACHOVIČOVÁ, Martina - PENESOVÁ, Adela - KAJABA, Igo - HOLUBKOVÁ, Andrea - KRAJČIOVÁ, Ľubica - MISLOVIČOVÁ, Danica - BOBRÍK, Marián - ŠTURDÍK, Ernest. Novel cereal fibre drink as a tool for civilisation disease prevention. In *Quality Assurance and Safety of Crops and Foods*, 2014, vol. 6, p. 357-366. (0.935 - IF2013). ISSN 1757-8361.

Citácie:

1. [1.1] POUTANEN, Kaisa S. - DUSSORT, Pierre - ERKNER, Alfrun - FISZMAN, Susana - KARNIK, Kavita - KRISTENSEN, Mette - MARSAUX, Cyril F. M. - MIQUEL-KERGOAT, Sophie - PENTIKAINEN, Saara P. - PUTZ, Peter - SLAVIN, Joanne L. - STEINERT, Robert E. - MELA, David J. A review of the characteristics of dietary fibers relevant to appetite and energy intake outcomes in human intervention trials. In *AMERICAN JOURNAL OF CLINICAL NUTRITION*. ISSN 0002-9165, 2017, vol. 106, no. 3, pp. 747-754., Registrované v: WOS

- ADCA491 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. (1.966 - IF2013). (2014 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] BREZILLON, S. - UNTEREINER, V. - MOHAMED, H. T. - HODIN, J. - CHATRON-COLLIET, A. - MAQUART, F.X. - SOCKALINGUM, G. D. Probing glycosaminoglycan spectral signatures in live cells and their conditioned media by Raman microspectroscopy. In *ANALYST*. ISSN 0003-2654, 2017, vol. 142, no. 8, pp. 1333-1341., Registrované v: WOS

2. [1.1] MOHAMED, Hossam Taha - UNTEREINER, Valerie - SOCKALINGUM, Ganesh D. - BREZILLON, Stephane. Implementation of infrared and Raman modalities for glycosaminoglycan characterization in complex systems. In *GLYCOCONJUGATE JOURNAL*. ISSN 0282-0080, 2017, vol. 34, no. 3, pp. 309-323., Registrované v: WOS

- ADCA492 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 xylanisolvens* XB1A T and *Roseburia intestinalis* XB6B4 from human intestine. In *Journal of Applied Microbiology*, 2010, vol. 109, p. 451-460. (2.098 - IF2009). (2010 - Current Contents). ISSN 1364-5072.

Citácie:

1. [1.1] BATAKAN, R. B. - FENNING, A. S. - DALBO, V. J. - SCANLAN, A. T. - DUNCAN, M. J. - MOORE, R. J. - STANLEY, D. A gut reaction: the combined influence of exercise and diet on gastrointestinal microbiota in rats. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2017, vol. 122, no. 6, pp. 1627-1638., Registrované v: WOS

2. [1.1] BRODMANN, Theodor - ENDO, Akihito - GUEIMONDE, Miguel - VINDEROLA, Gabriel

- KNEIFEL, Wolfgang - DE VOS, Willem M. - SALMINEN, Seppo - GOMEZ-GALLEGO, Carlos. *Safety of Novel Microbes for Human Consumption: Practical Examples of Assessment in the European Union*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

3. [1.1] COOPER, Danielle N. - KABLE, Mary E. - MARCO, Maria L. - DE LEON, Angela - RUST, Bret - BAKER, Julita E. - HORN, William - BURNETT, Dustin - KEIM, Nancy L. *The Effects of Moderate Whole Grain Consumption on Fasting Glucose and Lipids, Gastrointestinal Symptoms, and Microbiota*. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS

4. [1.1] DE PAEPE, Kim - KERCKHOF, Frederiek-Maarten - VERSPREET, Joran - COURTIN, Christophe M. - VAN DE WIELE, Tom. *Inter-individual differences determine the outcome of wheat bran colonization by the human gut microbiome*. In *ENVIRONMENTAL MICROBIOLOGY*. ISSN 1462-2912, 2017, vol. 19, no. 8, pp. 3251-3267., Registrované v: WOS

5. [1.1] LIU, Jay - WILLIAMS, Brett - FRANK, Daniel - DILLON, Stephanie M. - WILSON, Cara C. - LANDAY, Alan L. *Inside Out: HIV, the Gut Microbiome, and the Mucosal Immune System*. In *JOURNAL OF IMMUNOLOGY*. ISSN 0022-1767, 2017, vol. 198, no. 2, pp. 605-614., Registrované v: WOS

6. [1.1] LIU, Ming-qi - HUO, Wen-kang - XU, Xin - WENG, Xiao-yan. *Recombinant Bacillus amyloliquefaciens xylanase A expressed in Pichia pastoris and generation of xylooligosaccharides from xylans and wheat bran*. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 105, no., pp. 656-663., Registrované v: WOS

ADCA493 MISLOVIČOVÁ, Danica - GEMEINER, Peter - SANDULA, Jozef - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica, Welwardová - DOČOLOMANSKÝ, Peter. Examination of bioaffinity immobilization by precipitation of mannan and mannan-containing enzymes with legume lectins. In *Biotechnology and Applied Biochemistry*, 2000, vol. 31, p. 153-159. (2000 - Current Contents). ISSN 0885-4513.

Citácie:

1. [1.1] CHOUDHRY, Ayoub Rashid - MUSHTAQ, Muhammad - ADNAN, Ahmad - SYED, Quratulain. *Response surface methodology-based optimization of glucose acylation bio-catalyzed by immobilized lipase*. In *BIOCATALYSIS AND BIOTRANSFORMATION*. ISSN 1024-2422, 2017, vol. 35, no. 4, pp. 238-248., Registrované v: WOS

2. [1.1] XU, Weina - YONG, You - WANG, Zheyu - JIANG, Guoqiang - WU, Jianzhong - LIU, Zheng. *Concanavalin A Coated Activated Carbon for High Performance Enzymatic Catalysis*. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 1, pp. 90-96., Registrované v: WOS

ADCA494 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. (2006 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] MACHADO, Yoan - DUINKERKEN, Sanne - HOEPFLINGER, Veronika - MAYR, Melissa - KOROTCHENKO, Evgeniia - KURTAJ, Almedina - PABLOS, Isabel - STEINER, Markus - STOECKLINGER, Angelika - LUBBERS, Joyce - SCHMID, Maximillian - RITTER, Uwe - SCHEIBLHOFER, Sandra - ABLINGER, Michael - WALLY, Verena - HOCHMANN, Sarah - RANINGER, Anna M. - STRUNK, Dirk - VAN KOOYK, Yvette - THALHAMER, Josef - WEISS, Richard. *Synergistic effects of dendritic cell targeting and laser-microporation on enhancing epicutaneous skin vaccination efficacy*. In *JOURNAL OF CONTROLLED RELEASE*. ISSN 0168-3659, 2017, vol. 266, no., pp. 87-99., Registrované v: WOS

ADCA495 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - VIKARTOVSKÁ, Alica, Welwardová - GEMEINER, Peter - MICHÁLKOVÁ, 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.

Citácie:

1. [1.1] ÇAKMAKCI, Emrah - MUHSIR, Pelin - DEMIR, Serap. *Physical and Covalent Immobilization of Lipase onto Amine Groups Bearing Thiol-Ene Photocured Coatings*. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 181, no. 3, pp. 1030-1047., Registrované v: WOS

ADCA496 MISLOVIČOVÁ, Danica - NOVÁK, Ivan - PAŠTEKA, Mikuláš. Coated silica and its behaviour in dye-affinity chromatography. In *Journal of Chromatography*, 1991, vol. 543, p. 9-16.

Citácie:

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

- ADCA497 MISLOVIČOVÁ, Danica - CHUDINOVÁ, M. - GEMEINER, Peter - DOČOLOMANSKÝ, Peter. Affinity-chromatography of invertase on concanavalin-a bead cellulose Matrix - the case of an extraordinary strong binding glycoenzyme. In *Journal of Chromatography*, 1995, vol. 664, issue 1, p. 145-153. (1.209 - IF1994). (1995 - Current Contents). ISSN 0378-4347.
Citácie:
1. [1.1] CIZOVA, Alzbeta - KORCOVA, Jana - FARKAS, Pavol - BYSTRICKY, Slavomir. Efficient separation of mannan-protein mixtures by ionic liquid aqueous two-phase system, comparison with lectin affinity purification. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 314-318., Registrované v: WOS
2. [1.1] FILIP, Jaroslav - ZAVAHIR, Sifani - KLUKOVA, Ludmila - TKAC, Jan - KASAK, Peter. Immobilization of concanavalin A lectin on a reduced graphene oxidethionine surface by glutaraldehyde crosslinking for the construction of an impedimetric biosensor. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2017, vol. 794, no., pp. 156-163., Registrované v: WOS
- ADCA498 MISLOVIČOVÁ, Danica - PĀTOPRSTÝ, Vladimír - VIKARTOVSKÁ, Alica, Welwardová. Enzymatic oxidation and separation of various saccharides with immobilized glucose oxidase. In *Applied Biochemistry and Biotechnology*, 2010, vol. 162, p. 1669-1677. (1.420 - IF2009). (2010 - Current Contents). ISSN 0273-2289.
Citácie:
1. [1.1] ZUBKOV, Vitalijs - SCHUERGER, Nils - LAMBERT, Benjamin - AHUNBAY, Esra - BOGHOSSIAN, Ardemis A. Mediatorless, Reversible Optical Nanosensor Enabled through Enzymatic Pocket Doping. In *SMALL*. ISSN 1613-6810, 2017, vol. 13, no. 42, pp., Registrované v: WOS
- ADCA499 MISLOVIČOVÁ, Danica - TURJAN, Jozef - VIKARTOVSKÁ, Alica, Welwardová - PĀTOPRSTÝ, J. Removal of D-glucose from a mixture with D-mannose using immobilized glucose oxidase. Alica Vikartovská, J. Patoprstý. In *Journal of Molecular Catalysis B: Enzymatic*, 2009, vol.60, pp.45-49.
Citácie:
1. [1.1] WU, Hongli - HUANG, Ting - CAO, Fei - ZOU, Qiaogen - WEI, Ping - OUYANG, Pingkai. Co-production of HMF and gluconic acid from sucrose by chemo-enzymatic method. In *CHEMICAL ENGINEERING JOURNAL*. ISSN 1385-8947, 2017, vol. 327, no., pp. 228-234., Registrované v: WOS
- ADCA500 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. (1.732 - IF1999). (2000 - Current Contents). ISSN 1350-4177.
Citácie:
1. [1.1] RODRIGUES, S. - FERNANDES, F.A.N. Extraction Processes Assisted by Ultrasound. In *Bermudez Aguirre, D. edit. ULTRASOUND: ADVANCES IN FOOD PROCESSING AND PRESERVATION*. ACADEMIC PRESS-ELSEVIER SCIENCE, London, 2017, p. 351-368. ISBN 978-0-12-804614-2; 978-0-12-804581-7, Registrované v: WOS
2. [1.1] WINKLER, A.J. - DOMINGUEZ-NUNEZ, J.A. - ARANAZ, I. - POZA-CARRION, C. - RAMONELL, K. - SOMERVILLE, S. - BERROCAL-LOBO, M. Short-chain chitin oligomers: Promoters of plant growth. In *MARINE DRUGS*. ISSN 1660-3397, 2017, vol. 15, no. 2, art. no. 40., Registrované v: WOS
- ADCA501 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. (3.044 - IF2001). ISSN 1043-1802.
Citácie:
1. [1.1] SORIA, I. - ALVAREZ, J. - MANZANO, A.I. - LOPEZ-RELANO, J. - CASES, B. - MAS-FONTOA, A. - JAVIER CANADA, F. - FERNANDEZ-CALDAS, E. - CASANOVAS, M. - JIMENEZ-BARBERO, J. - PALOMARES, O. - VINALS-FLOREZ, L.M. - SUBIZA, J.L. Mite allergoids coupled to nonoxidized mannan from *Saccharomyces cerevisiae* efficiently target canine dendritic cells for novel allergy immunotherapy in veterinary medicine. In *VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY*. ISSN 0165-2427, 2017, vol. 190, p. 65-72., Registrované v: WOS
- ADCA502 MLČOCHOVÁ, D. - BYSTRICKÝ, Slavomír - STEINER, Bohumil - MACHOVÁ, Eva - KOÓŠ, Miroslav - VELEBNÝ, V. - KRČMÁŘ, M. Synthesis and characterization of new biodegradable hyaluronan alkyl derivatives. In *Biopolymers*, 2006, vol. 82, p. 74-79. ISSN 0006-3525.
Citácie:
1. [1.1] LUO, Li-Jyuan - LAI, Jui-Yang. The role of alkyl chain length of monothiol-terminated alkyl carboxylic acid in the synthesis, characterization, and application of gelatin-g-poly (N-isopropylacrylamide) carriers for antiglaucoma drug delivery. In *ACTA BIOMATERIALIA*. ISSN

- 1742-7061, 2017, vol. 49, no., pp. 344-357., Registrované v: WOS
 2. [1.2] Lundblad, R. L. (2016). In *Chemical Modification of Biological Polymers* (CRC Press, pp. 1-406), Registrované v: SCOPUS
- ADCA503 MLČOCHOVÁ, P. - HÁJKOVÁ, V. - STEINER, Bohumil - BYSTRICKÝ, Slavomír - KOÓŠ, Miroslav - MEDOVÁ, M. - VELEBNÝ, V. Preparation and characterization of biodegradable alkylether derivatives of hyaluronan. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2007, vol. 69, p. 344-352. (1.784 - IF2006). ISSN 0144-8617.
 Citácie:
 1. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 1837-1843., Registrované v: WOS
- ADCA504 MOKRÝ, Jozef - KOMPIŠ, I. - SPITELLER, G. Further minor alkaloids from Vinca minor L. In *Collection of Czechoslovak Chemical Communications*, 1967, vol. 32, p. 2523-2531. ISSN 0010-0765.
 Citácie:
 1. [1.1] ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. Treatment of Vinca minor Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS
 2. [1.1] CHONG, Kam-Weng - YEAP, Joanne Soon-Yee - LIM, Siew-Huah - WEBER, Jean-Frederic F. - LOW, Yun-Yee - KAM, Toh-Seok. Biosynthetic Enantiodivergence in the Eburnane Alkaloids from Kopsia. In *JOURNAL OF NATURAL PRODUCTS*. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 3014-3024., Registrované v: WOS
- ADCA505 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] DATTA, Suprama - TIMSON, David J. - ANNAPURE, Uday S. Antioxidant properties and global metabolite screening of the probiotic yeast Saccharomyces cerevisiae var. boulardii. In *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE*. ISSN 0022-5142, 2017, vol. 97, no. 9, pp. 3039-3049., Registrované v: WOS
- ADCA506 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. (1.822 - IF2013). (2014 - Current Contents). ISSN 0233-111X.
 Citácie:
 1. [1.1] DEUTSCHER, Ania T. - REYNOLDS, Olivia L. - CHAPMAN, Toni A. Yeast: An Overlooked Component of Bactrocera tryoni (Diptera: Tephritidae) Larval Gut Microbiota. In *JOURNAL OF ECONOMIC ENTOMOLOGY*. ISSN 0022-0493, 2017, vol. 110, no. 1, pp. 298-300., Registrované v: WOS
 2. [1.1] PIPER, Alexander M. - FARNIER, Kevin - LINDER, Tomas - SPEIGHT, Robert - CUNNINGHAM, John Paul. Two Gut-Associated Yeasts in a Tephritid Fruit Fly have Contrasting Effects on Adult Attraction and Larval Survival. In *JOURNAL OF CHEMICAL ECOLOGY*. ISSN 0098-0331, 2017, vol. 43, no. 9, pp. 891-901., Registrované v: WOS
 3. [1.1] Schlander, Martina; Distler, Ute; Tenzer, Stefan; Thines, Eckhard; Claus, Harald. Purification and Properties of Yeast Proteases Secreted by Wickerhamomyces anomalus 227 and Metschnikovia pulcherrima 446 during Growth in a White Grape Juice. In: *Fermentation-Basel Vol. 3* (2017), Issue: 1 Pages: Article No.: 2, Registrované v: WOS
 4. [1.1] WATKINS, Rhys A. - KING, Jason S. - JOHNSTON, Simon A. Nutritional Requirements and Their Importance for Virulence of Pathogenic Cryptococcus Species. In *MICROORGANISMS*. ISSN 2076-2607, 2017, vol. 5, no. 4, pp., Registrované v: WOS
 5. [1.2] CADETE, Raquel M. - LOPES, Mariana R. - ROSA, Carlos A. Yeasts associated with decomposing plant material and rotting wood. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 265-292., Registrované v: SCOPUS
 6. [1.2] CLAUS, Harald. Microbial enzymes: Relevance for winemaking. In *Biology of Microorganisms on Grapes, in Must and in Wine*, 2017-01-01, pp. 315-338., Registrované v: SCOPUS
- ADCA507 MONOSÍK, 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. (1.943 - IF2011). (2012 - Current Contents). ISSN 1936-9751.
 Citácie:

1. [1.1] ARTIGUES, Margalida - ABELLA, Jordi - COLOMINAS, Sergi. *Analytical Parameters of an Amperometric Glucose Biosensor for Fast Analysis in Food Samples*. In *SENSORS*. ISSN 1424-8220, 2017, vol. 17, no. 11, pp., Registrované v: WOS
 2. [1.1] KACAR, Ceren - ERDEN, Pinar Esra - KILIC, Esma. *Graphene/Poly(vinylferrocene) Composite Based Amperometric Biosensor for L-lysine Determination*. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 9, pp. 2114-2124., Registrované v: WOS
 3. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. *Main streams in the Construction of Biosensors and Their Applications*. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS
 4. [1.1] PORTACCIO, Marianna - LEPORE, Maria. *Determination of Different Saccharides Concentration by Means of a Multienzymes Amperometric Biosensor*. In *JOURNAL OF SENSORS*. ISSN 1687-725X, 2017, vol., no., pp., Registrované v: WOS
 5. [1.1] TANAKA, Sohei - DOHI, Takumi - AIZAWA, Sen-ichi - KEMMEI, Tomoko - TERASHIMA, Hiroyuki - TAGA, Atsushi - YAMAMOTO, Atsushi - KODAMA, Shuji. *Simultaneous determination of alcohols including diols and triols by HPLC with ultraviolet detection based on the formation of a copper(II) complex*. In *JOURNAL OF SEPARATION SCIENCE*. ISSN 1615-9306, 2017, vol. 40, no. 21, pp. 4168-4175., Registrované v: WOS
 6. [1.1] UWIMBABAZI, Eric - MUKASEKURU, Marie Rose - SUN, Xiulan. *Glucose Biosensor Based on a Glassy Carbon Electrode Modified with Multi-Walled Carbon Nanotubes-Chitosan for the Determination of Beef Freshness*. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2017, vol. 10, no. 8, pp. 2667-2676., Registrované v: WOS
- ADCA508 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.
- Citácie:
1. [1.1] IWASA, Hisanori - HIRATSUKA, Atsunori - YOKOYAMA, Kenji - UZAWA, Hirotaka - ORIHARA, Kouhei - MUGURUMA, Hitoshi. *Thermophilic Talaromyces emersonii Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase Bioanode for Biosensor and Biofuel Cell Applications*. In *ACS OMEGA*. ISSN 2470-1343, 2017, vol. 2, no. 4, pp. 1660-1665., Registrované v: WOS
 2. [1.1] MUGURUMA, Hitoshi - IWASA, Hisanori - HIDAHA, Hiroki - HIRATSUKA, Atsunori - UZAWA, Hirotaka. *Mediatorless Direct Electron Transfer between Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase and Single-Walled Carbon Nanotubes*. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 1, pp. 725-734., Registrované v: WOS
 3. [1.1] SODE, Koji - LOEW, Noya - OHNISHI, Yosuke - TSURUTA, Hayato - MORI, Kazushige - KOJIMA, Katsuhiko - TSUGAWA, Wakako - LABELLE, Jeffrey T. - KLONOFF, David C. *Novel fungal FAD glucose dehydrogenase derived from Aspergillus niger for glucose enzyme sensor strips*. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 87, no., pp. 305-311., Registrované v: WOS
 4. [1.1] SONG, Yonghai - SHEN, Yuan - GONG, Coucong - CHEN, Jingyi - XU, Mengli - WANG, Linyu - WANG, Li. *A Novel Glucose Biosensor Based on Tb@Mesoporous Metal-Organic Frameworks/Carbon Nanotube Nanocomposites*. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1457-1462., Registrované v: WOS
- ADCA509 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. (3.334 - IF2012). (2013 - Current Contents). ISSN 0308-8146.
- Citácie:
1. [1.1] FARINA, Donatella - ZINELLU, Manuel - FANARI, Mauro - PORCU, Maria Cristina - SCOGNAMILLO, Sergio - PUGGIONI, Giulia Maria Grazia - ROCCHITTA, Gaia - SERRA, Pier Andrea - PRETTI, Luca. *Development of a biosensor telemetry system for monitoring fermentation in craft breweries*. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 218, no., pp. 479-486., Registrované v: WOS
 2. [1.1] JAVIER AREVALO, Fernando - OSUNA-SANCHEZ, Yolanda - SANDOVAL-CORTES, Jose - DI TOCCO, Aylen - MARCELO GRANERO, Adrian - NOEL ROBLEDO, Sebastian - ALICIA ZON, Maria - ROBERTO VETTORAZZI, Nelio - LUIS MARTINEZ, Jose - PATRICIA SEGURA, Elda - ILINA, Anna - FERNANDEZ, Hector. *Development of an electrochemical sensor for the determination of glycerol based on glassy carbon electrodes modified with a copper oxide nanoparticles/multiwalled carbon nanotubes/pectin composite*. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 244, no., pp. 949-957., Registrované v: WOS
 3. [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi -

- CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS
4. [1.1] ZHANG XIAOHONG - ZHAO ZHIDONG - LOU XIONGWEI - LI JIAN - HUI GUOHUA. A maltose, L-rhamnose sensor based on porous Cu foam and electrochemical amperometric i-t scanning method. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, 2017, vol. 11, no. 2, pp. 548-555., Registrované v: WOS
5. [1.1] ZHAO, Dan - FENG, Feng - YUAN, Fei - SU, Jin - CHENG, Yan - WU, Hanqiu - SONG, Kun - NIE, Bo - YU, Lian - ZHANG, Feng. Simultaneous determination of 13 carbohydrates using high-performance anion-exchange chromatography coupled with pulsed amperometric detection and mass spectrometry. In JOURNAL OF SEPARATION SCIENCE. ISSN 1615-9306, 2017, vol. 40, no. 8, pp. 1843-1854., Registrované v: WOS
- ADCA510 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. (6.739 - IF2013). (2014 - Current Contents). ISSN 2040-3364.
- Citácie:
1. [1.1] ARNAULT, J. C. Nanodiamonds: From Synthesis and Purification to Deposition Techniques, Hybrids Fabrication and Applications. In CARBON NANOPARTICLES AND NANOSTRUCTURES. ISSN 2191-3005, 2016, vol., no., pp. 1-45., Registrované v: WOS
2. [1.1] AUGUSTINE, Shine - SINGH, Jay - SRIVASTAVA, Manish - SHARMA, Monica - DAS, Asmita - MALHOTRA, Bansi D. Recent advances in carbon based nanosystems for cancer theranostics. In BIOMATERIALS SCIENCE. ISSN 2047-4830, 2017, vol. 5, no. 5, pp. 901-952., Registrované v: WOS
3. [1.1] CHEVILLARD, Sylvie - GRALL, Romain - DELIC, Jozo - PAGET, Vincent. Toxicity issues: interactions with biological species. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 323-338., Registrované v: WOS
4. [1.1] JIRASEK, Vit - LUKES, Petr - KOZAK, Halyna - ARTEMENKO, Anna - CLUPEK, Martin - CERMAK, Jan - REZEK, Bohuslav - KROMKA, Alexander. Filamentation of diamond nanoparticles treated in underwater corona discharge. In RSC ADVANCES. ISSN 2046-2069, 2016, vol. 6, no. 3, pp. 2352-2360., Registrované v: WOS
5. [1.1] LIM, Dae Gon - PRIM, Racelly Ena - KIM, Ki Hyun - KANG, Eunah - PARK, Kinam - JEONG, Seong Hoon. Combinatorial nanodiamond in pharmaceutical and biomedical applications. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2016, vol. 514, no. 1, pp. 41-51., Registrované v: WOS
6. [1.1] MONTALTI, M. - CANTELLI, A. - BATTISTELLI, G. Nanodiamonds and silicon quantum dots: ultrastable and biocompatible luminescent nanoprobe for long-term bioimaging. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, 2015, vol. 44, no. 14, pp. 4853-4921., Registrované v: WOS
7. [1.1] NEBURKOVA, Jitka - VAVRA, Jan - RAABOVA, Helena - PRAMANIK, Goutam - HAVLIK, Jan - CIGLER, Petr. Nanodiamonds embedded in shells. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 339-363., Registrované v: WOS
8. [1.1] PACELLI, Settimio - MALONEY, Ryan - CHAKRAVARTI, Aparna R. - WHITLOW, Jonathan - BASU, Sayantani - MODARESI, Saman - GEHRKE, Stevin - PAUL, Arghya. Controlling Adult Stem Cell Behavior Using Nanodiamond-Reinforced Hydrogel: Implication in Bone Regeneration Therapy. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
9. [1.1] REINECK, Philipp - GIBSON, Brant C. Near-Infrared Fluorescent Nanomaterials for Bioimaging and Sensing. In ADVANCED OPTICAL MATERIALS. ISSN 2195-1071, 2017, vol. 5, no. 2, pp., Registrované v: WOS
10. [1.1] SETYAWATI, Magdiel I. - MOCHALIN, Vadym N. - LEONG, David T. Tuning Endothelial Permeability with Functionalized Nanodiamonds. In ACS NANO. ISSN 1936-0851, 2016, vol. 10, no. 1, pp. 1170-1181., Registrované v: WOS
11. [1.1] SOTOMA, Shingo - SHIRAKAWA, Masahiro. Monodispersed Colloidal Solutions of Surface-modified Detonation-synthesized Nanodiamonds and Their Aggregation Resistance. In CHEMISTRY LETTERS. ISSN 0366-7022, 2016, vol. 45, no. 6, pp. 697-699., Registrované v: WOS
12. [1.1] SUAREZ-KELLY, Lorena P. - RAMPERSAUD, Isaac V. - MORITZ, Charles E. - CAMPBELL, Amanda R. - HU, Zhiwei - ALKAHTANI, Masfer H. - ALGHANNAM, Fahad S. - HEMMER, Philip - CARSON, William E. - RAMPERSAUD, Arfaan A. Fluorescent nanodiamonds and their use in biomedical research. In ADVANCES IN PHOTONICS OF QUANTUM

COMPUTING, MEMORY, AND COMMUNICATION IX. ISSN 0277-786X, 2016, vol. 9762, no., pp., Registrované v: WOS

13. [1.1] TURCHENIUK, K. - MOCHALIN, Vadym N. Biomedical applications of nanodiamond. In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 25, pp., Registrované v: WOS

14. [1.1] WHITLOW, Jonathan - PACELLI, Settimio - PAUL, Arghya. Multifunctional nanodiamonds in regenerative medicine: Recent advances and future directions. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 261, no., pp. 62-86., Registrované v: WOS

15. [1.1] WU, Yuzhou - ERMAKOVA, Anna - LIU, Weina - PRAMANIK, Goutam - TRAN MINH VU - KURZ, Andrea - MCGUINNESS, Liam - NAYDENOV, Boris - HAFNER, Susanne - REUTER, Rolf - WRACHTRUP, Joerg - ISOYA, Junichi - FOERTSCH, Christina - BARTH, Holger - SIMMET, Thomas - JELEZKO, Fedor - WEIL, Tanja. Programmable Biopolymers for Advancing Biomedical Applications of Fluorescent Nanodiamonds. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, 2015, vol. 25, no. 42, pp. 6576-6585., Registrované v: WOS

16. [1.1] WU, Yuzhou - JELEZKO, Fedor - PLENIO, Martin B. - WEIL, Tanja. Diamond Quantum Devices in Biology. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2016, vol. 55, no. 23, pp. 6586-6598., Registrované v: WOS

17. [1.1] WU, Yuzhou - WEIL, Tanja. Nanodiamonds for Biological Applications. In PHYSICAL SCIENCES REVIEWS. ISSN 2365-6581, 2017, vol. 2, no. 6, pp., Registrované v: WOS

18. [1.2] Hsiao, W. W. W., Lin, H. H., Hsieh, F. J., & Chang, H. C. (2016). Surface-modified nanodiamonds. In Sattler, K. D. (ed.). Carbon Nanomaterials Sourcebook: Graphene, Fullerenes, Nanotubes, and Nanodiamonds (CRC Press, vol. 1, chapter 22, pp. 525-541), Registrované v: SCOPUS

19. [1.2] Müllen, K., & Feng, X. (2017). In Chemistry of Carbon Nanostructures. (Walter de Gruyter, pp. 1-319), Registrované v: SCOPUS

ADCA511

MORRIS, G.A. - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna - ALFOLDI, Juraj - HARDING, S.E. Modification of pectin with UV-absorbing substituents and its effect on the structural and hydrodynamic properties of the water-soluble derivatives. In Carbohydrate Polymers, 2002, vol. 48, p. 351-359. (1.203 - IF2001). (2002 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] KARAKI, N. - ALJAWISH, A. - MUNIGLIA, L. - BOUGUET-BONNET, S. - LECLERC, S. - PARIS, C. - JASNIEWSKI, J. - HUMEAU-VIROT, C. Functionalization of pectin with laccase-mediated oxidation products of ferulic acid. In ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 1-8., Registrované v: WOS

2. [1.1] RODRIGUEZ-NAVARRO, Carlos - RUIZ-AGUDO, Encarnacion - BURGOS-CARA, Alejandro - ELERT, Kerstin - HANSEN, Eric F. Crystallization and Colloidal Stabilization of Ca(OH)(2) in the Presence of Nopal Juice (Opuntia ficus indica): Implications in Architectural Heritage Conservation. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 41, pp. 10936-10950., Registrované v: WOS

ADCA512

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. (1.784 - IF2006). ISSN 0144-8617.

Citácie:

1. [1.1] ALVAREZ, Cristina - GONZALEZ, Alberto - JOSE NEGRO, Maria - BALLESTEROS, Ignacio - MIGUEL OLIVA, Jose - SAEZ, Felicia. Optimized use of hemicellulose within a biorefinery for processing high value-added xylooligosaccharides. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 99, no., pp. 41-48., Registrované v: WOS

2. [1.1] BAJPAI, Pratima. Future Perspectives. In PULP AND PAPER INDUSTRY: CHEMICAL RECOVERY, 2017, vol., no., pp. 231-233., Registrované v: WOS

3. [1.1] BALLESTEROS, Lina F. - RAMIREZ, Monica J. - ORREGO, Carlos E. - TEIXEIRA, Jose A. - MUSSATTO, Solange I. Optimization of autohydrolysis conditions to extract antioxidant phenolic compounds from spent coffee grounds. In JOURNAL OF FOOD ENGINEERING. ISSN 0260-8774, 2017, vol. 199, no., pp. 1-8., Registrované v: WOS

4. [1.1] BALLESTEROS, Lina F. - TEIXEIRA, Jose A. - MUSSATTO, Solange I. Extraction of polysaccharides by autohydrolysis of spent coffee grounds and evaluation of their antioxidant activity. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 258-266., Registrované v: WOS

5. [1.1] DORDEVIC, Tatjana - ANTOV, Mirjana. Ultrasound assisted extraction in aqueous two-phase system for the integrated extraction and separation of antioxidants from wheat chaff. In SEPARATION AND PURIFICATION TECHNOLOGY. ISSN 1383-5866, 2017, vol. 182, no., pp. 52-58., Registrované v: WOS

6. [1.1] GE, Lin - XIE, Jingcong - WU, Tao - ZHANG, Shanshan - ZHAO, Linguo - DING, Gang -

- WANG, Zhenzhong - XIAO, Wei. Purification and characterisation of a novel alpha-L-rhamnosidase exhibiting transglycosylating activity from *Aspergillus oryzae*. In *INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY*. ISSN 0950-5423, 2017, vol. 52, no. 12, pp. 2596-2603., Registrované v: WOS
7. [1.1] HUANG, Chen - LAI, Chenhuan - WU, Xinxing - HUANG, Yang - HE, Juan - HUANG, Caoxing - LI, Xin - YONG, Qiang. An integrated process to produce bio-ethanol and xylooligosaccharides rich in xylobiose and xylotriose from high ash content waste wheat straw. In *BIORESOURCCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 241, no., pp. 228-235., Registrované v: WOS
8. [1.1] JOHNSON, Amanda M. - KIM, Hoon - RALPH, John - MANSFIELD, Shawn D. Natural acetylation impacts carbohydrate recovery during deconstruction of *Populus trichocarpa* wood. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
9. [1.1] KAPRELYANTS, L. - ZHURLOVA, O. - SHPYRKO, T. - POZHITKOVA, L. XYLOOLIGOSACCHARIDES FROM AGRICULTURAL BY-PRODUCTS: CHARACTERISATION, PRODUCTION AND PHYSIOLOGICAL EFFECTS. In *JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-UKRAINE*. ISSN 2073-8684, 2017, vol. 11, no. 3, pp. 25-34., Registrované v: WOS
10. [1.1] KATSIMPOURAS, Constantinos - KALOGIANNIS, Konstantinos G. - KALOGIANNI, Aggeliki - LAPPAS, Angelos A. - TOPAKAS, Evangelos. Production of high concentrated cellulosic ethanol by acetone/water oxidized pretreated beech wood. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
11. [1.1] LINDEMANN, Martin - FRIEDL, Anton - SREBOTNIK, Ewald. Enhanced Cellulose Degradation of Wheat Straw during Aqueous Ethanol Organosolv Treatment. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 9407-9419., Registrované v: WOS
12. [1.1] MENEZES, Bruna da Silva - ROSSI, Daniele Misturini - ZACHIA AYUB, Marco Antonio. Screening of filamentous fungi to produce xylanase and xylooligosaccharides in submerged and solid-state cultivations on rice husk, soybean hull, and spent malt as substrates. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 3, pp., Registrované v: WOS
13. [1.1] SALAS-VEIZAGA, Daniel Martin - VILLAGOMEZ, Rodrigo - LINARES-PASTEN, Javier A. - CARRASCO, Cristhian - ALVAREZ, Maria Teresa - ADLERCREUTZ, Patrick - KARLSSON, Eva Nordberg. Extraction of Glucuronoarabinoxylan from Quinoa Stalks (*Chenopodium quinoa* Willd.) and Evaluation of Xylooligosaccharides Produced by GH10 and GH11 Xylanases. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 39, pp. 8663-8673., Registrované v: WOS
14. [1.1] SINGH, Sudhir P. - JADAUN, Jyoti Singh - NARNOLIYA, Lokesh K. - PANDEY, Ashok. Prebiotic Oligosaccharides: Special Focus on Fructooligosaccharides, Its Biosynthesis and Bioactivity. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 2, pp. 613-635., Registrované v: WOS
15. [1.1] SUREK, Ece - BUYUKKILECI, Ali Oguz. Production of xylooligosaccharides by autohydrolysis of hazelnut (*Corylus avellana* L.) shell. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 174, no., pp. 565-571., Registrované v: WOS
16. [1.1] VALLEJOS, Maria E. - FELISSIA, Fernando E. - AREA, Maria C. Hydrothermal Treatments Applied to Agro- and Forest-Industrial Waste to Produce High Added-Value Compounds. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 2058-2080., Registrované v: WOS
17. [1.1] ZHANG, Hongyu - ZHOU, Xuelian - XU, Yong - YU, Shiyuan. Production of Xylooligosaccharides from Waste Xylan, Obtained from Viscose Fiber Processing, by Selective Hydrolysis Using Concentrated Acetic Acid. In *JOURNAL OF WOOD CHEMISTRY AND TECHNOLOGY*. ISSN 0277-3813, 2017, vol. 37, no. 1, pp. 1-9., Registrované v: WOS
18. [1.2] GÓMEZ, Belén - MÍGUEZ, Beatriz - YÁÑEZ, Remedios - ALONSO, Jose L. Extraction of Oligosaccharides With Prebiotic Properties From Agro-Industrial Wastes. In *Water Extraction of Bioactive Compounds: From Plants to Drug Development*, 2017-09-22, pp. 131-161., Registrované v: SCOPUS
19. [1.2] PUROHIT, Anjali - RAI, Shushil Kumar - CHOWNK, Manisha - SANGWAN, Rajender Singh - YADAV, Sudesh Kumar. Xylanase from *Acinetobacter pittii* MASK 25 and developed magnetic cross-linked xylanase aggregate produce predominantly xylopentose and xylohexose from agro biomass. In *BIORESOURCCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 244, no., pp. 793-799., Registrované v: WOS
20. [1.2] RAFIQUL, I. S.M. - SAKINAH, A. M.M. - ZULARISAM, A. W. Hydrolysis of lignocellulosic biomass for recovering hemicellulose: State of the art. In *Waste Biomass Management A Holistic Approach*, 2017-01-01, pp. 73-106., Registrované v: SCOPUS

- ADCA513 NABARLATZ, D. - MONTANÉ, D. - KARDOŠOVÁ, Alžbeta - BEKEŠOVÁ, Slávka - HRÍBALOVÁ, V. - EBRINGEROVÁ, Anna. Almond shell xylo-oligosaccharides exhibiting immunostimulatory activity. In *Carbohydrate Research*, 2007, vol. 342, p. 1122-1128. (1.703 - IF2006). (2007 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] FARHAT, Wissam - VENDITTI, Richard A. - HUBBE, Martin - TAHA, Mohamed - BECQUART, Frederic - AYOUB, Ali. A Review of Water-Resistant Hemicellulose-Based Materials: Processing and Applications. In *CHEMSUSCHEM*. ISSN 1864-5631, 2017, vol. 10, no. 2, pp. 305-323., Registrované v: WOS
 - [1.1] GAO, Yonglin - WANG, Yunzhi - LI, Yanshen - HAN, Rui - LI, Chunmei - XIAO, Lin - CHO, Susan - MA, Yukui - FANG, Chao - LEE, Albert W. Repeated sub-chronic oral toxicity study of xylooligosaccharides (XOS) in dogs. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2017, vol. 86, no., pp. 379-385., Registrované v: WOS
- ADCA514 NAGY, T. - NURIZZO, D. - DAVIES, G.J. - BIELY, Peter - LAKEY, J.H. - BOLAM, D.N. - GILBERT, H.J. The α -glucuronidase, GICA67A, 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. (6.696 - IF2002). (2003 - Current Contents). ISSN 0021-9258.
- Citácie:
- [1.1] Group Author(s): Uniprot Consortium. B3PC73. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/B3PC73>, Registrované v: WOS
 - [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115 α -glucuronidase and GH11 xylanase from *Paenibacillus* sp JDR-2: potential roles in processing glucuronoxylans. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
 - [1.1] YAGI, Haruka - MAEHARA, Tomoko - TANAKA, Tsuyoshi - TAKEHARA, Ryo - TERAMOTO, Koji - YAOI, Katsuro - KANEKO, Satoshi. 4-O-Methyl Modifications of Glucuronic Acids in Xylans Are Indispensable for Substrate Discrimination by GH67 α -Glucuronidase from *Bacillus halodurans* C-125. In *JOURNAL OF APPLIED GLYCOSCIENCE*. ISSN 1344-7882, 2017, vol. 64, no. 4, pp. 115-121., Registrované v: WOS
 - [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS
 - [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS
- ADCA515 NAHÁLKA, Jozef. Physiological aggregation of maltodextrin phosphorylase from *Pyrococcus furiosus* and its application in a process of batch starch degradation to α -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. ISSN 1367-5435 (print).
- Citácie:
- [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizes for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
 - [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
- ADCA516 NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica, Welwardová - HRABÁROVÁ, Eva. A crosslinked inclusion body process for sialic acid synthesis. In *Journal of Biotechnology*, 2008, vol. 134, p. 146-153. (2008 - Current Contents). ISSN 0168-1656.
- Citácie:
- [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizes for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
 - [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS

3. [1.1] WANG, Zhenfu - ZHUANG, Wei - CHENG, Jian - SUN, Wujin - WU, Jinglan - CHEN, Yong - YING, Hanjie. *In Vivo Multienzyme Complex Coconstruction of N-Acetylneuraminic Acid Lyase and N-Acetylglucosamine-2-epimerase for Biosynthesis of N-Acetylneuraminic Acid*. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 34, pp. 7467-7475., Registrované v: WOS
- ADCA517 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.
Citácie:
1. [1.1] DEEPTHI, S. - SATHEESHKUMAR, K. *Cell line selection combined with jasmonic acid elicitation enhance camptothecin production in cell suspension cultures of Ophiorrhiza mungos L*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 2, pp. 545-558., Registrované v: WOS
- ADCA518 NAHÁLKA, Jozef - BLANÁRIK, P. - GEMEINER, Peter - MATÚŠOVÁ, E. - PARTLOVÁ, I. Production of plumbagin by cell suspension cultures of *Drosophyllum lusitanicum* Link. In *Journal of Biotechnology*, 1996, vol. 49, p. 153-161. ISSN 0168-1656.
Citácie:
1. [1.1] JAISI, Amit - PANICHAYUPAKARANANT, Pharkphoom. *Chitosan elicitation and sequential Diaion (R) HP-20 addition a powerful approach for enhanced plumbagin production in Plumbago indica root cultures*. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 53, no., pp. 210-215., Registrované v: WOS
- ADCA519 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. (3.550 - IF2008). ISSN 1477-0520.
Citácie:
1. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. *Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
2. [1.1] KULMER, Sandra T. - GUTMANN, Alexander - LEMMERER, Martin - NIDETZKY, Bernd. *Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose*. In *ADVANCED SYNTHESIS & CATALYSIS*. ISSN 1615-4150, 2017, vol. 359, no. 2, pp. 292-301., Registrované v: WOS
3. [1.1] LEWKOWICZ, Elizabeth S. - IRIBARREN, Adolfo M. *Whole Cell Biocatalysts for the Preparation of Nucleosides and their Derivatives*. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6851-6878., Registrované v: WOS
4. [1.1] LIANG, Mingzhi - FRANK, Stefanie - LUENSDORF, Heinrich - WARREN, Martin J. u - PRENTICE, Michael B. *Bacterial microcompartment-directed polyphosphate kinase promotes stable polyphosphate accumulation in E. coli*. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 3, pp., Registrované v: WOS
5. [1.1] SCHMOELZER, Katharina - LEMMERER, Martin - GUTMANN, Alexander - NIDETZKY, Bernd. *Integrated process design for biocatalytic synthesis by a Leloir Glycosyltransferase: UDP-glucose production with sucrose synthase*. In *BIOTECHNOLOGY AND BIOENGINEERING*. ISSN 0006-3592, 2017, vol. 114, no. 4, pp. 924-928., Registrované v: WOS
- ADCA520 NAHÁLKA, Jozef - DIB, I. - NIDETZKY, B. Encapsulation of *Trigonopsis variabilis* D-amino acid oxidase and fast comparison of the operational stabilities of free and immobilized preparations of the enzyme. In *Biotechnology and Bioengineering*, 2008, vol. 99, p. 251-260. (3.037 - IF2007). ISSN 0006-3592.
Citácie:
1. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVARDE, Antonio. *Engineering tumor cell targeting in nanoscale amyloidal materials*. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
- ADCA521 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. ISSN 1073-1199.
Citácie:
1. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. *Catalytically-active inclusion bodies Carrier-free protein immobilizates for application in biotechnology and biomedicine*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
2. [1.1] LIANG, Mingzhi - FRANK, Stefanie - LUENSDORF, Heinrich - WARREN, Martin J. u -

- PRENTICE, Michael B. Bacterial microcompartment-directed polyphosphate kinase promotes stable polyphosphate accumulation in *E. coli*. In *BIOTECHNOLOGY JOURNAL*. ISSN 1860-6768, 2017, vol. 12, no. 3, pp., Registrované v: WOS
- ADCA522 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.
Citácie:
1. [1.1] YU, Mangan - LIU, Duqiang - SUN, Lili - LI, Jing - CHEN, Qian - PAN, Lijun - SHANG, Jingchuan - ZHANG, Shurong - LI, Wei. Facile fabrication of 3D porous hybrid sphere by co-immobilization of multi-enzyme directly from cell lysates as an efficient and recyclable biocatalyst for asymmetric reduction with coenzyme regeneration in situ. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 424-434., Registrované v: WOS
- ADCA523 NAHÁLKA, Jozef - LIU, Z. - GEMEINER, Peter. Nucleoside triphosphates production using recombinant *Escherichia coli* entrapped in calcium pectate gel. In *Biotechnology Letters*, 2002, vol. 24, p. 925-930. (0.915 - IF2001). (2002 - Current Contents). ISSN 0141-5492.
Citácie:
1. [1.1] DING, Qingbao - OU, Ling. NTP Regeneration and its Application in the Biosynthesis of Nucleotides and their Derivatives. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2017, vol. 23, no. 45, pp. 6936-6947., Registrované v: WOS
- ADCA524 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. (2.999 - IF2006). (2007 - Current Contents). ISSN 0006-3592.
Citácie:
1. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. Catalytically-active inclusion bodies Carrier-free protein immobilizes for application in biotechnology and biomedicine. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS
2. [1.1] LOUGHRAN, Sinead T. - WALLS, Dermot. Tagging Recombinant Proteins to Enhance Solubility and Aid Purification. In *PROTEIN CHROMATOGRAPHY: METHODS AND PROTOCOLS, 2ND EDITION*. ISSN 1064-3745, 2017, vol. 1485, no., pp. 131-156., Registrované v: WOS
3. [1.1] MUKHERJEE, Joyeeta - GUPTA, Munishwar Nath. Protein aggregates: Forms, functions and applications. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 97, no., pp. 778-789., Registrované v: WOS
4. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVERDE, Antonio. Bacterial Inclusion Bodies: Discovering Their Better Half. In *TRENDS IN BIOCHEMICAL SCIENCES*. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS
5. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. Engineering tumor cell targeting in nanoscale amyloid materials. In *NANOTECHNOLOGY*. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS
6. [1.1] WANG, Weiyu - SUN, Jiaqi - XIAO, Wenjun - JIANG, Li - WANG, Ruyue - FAN, Jun. Change of the N-terminal codon bias combined with tRNA supplementation outperforms the selected fusion tags for production of human d-amino acid oxidase as active inclusion bodies. In *BIOTECHNOLOGY LETTERS*. ISSN 0141-5492, 2017, vol. 39, no. 11, pp. 1733-1740., Registrované v: WOS
7. [1.1] ZHENG, Junxian - YANG, Taowei - ZHOU, Junping - XU, Meijuan - ZHANG, Xian - RAO, Zhiming - YANG, Shangtian. Efficient production of D-amino acid oxidase in *Escherichia coli* by a trade-off between its expression and biomass using N-terminal modification. In *BIORESOURCE TECHNOLOGY*. ISSN 0960-8524, 2017, vol. 243, no., pp. 716-723., Registrované v: WOS
8. [1.2] ARAKAWA, Tsutomu - YAMAGUCHI, Rui - TOKUNAGA, Hiroko - TOKUNAGA, Masao. Unique features of halophilic proteins. In *Current Protein and Peptide Science*. ISSN 13892037, 2017-01-01, 18, 1, pp. 65-71., Registrované v: SCOPUS
- ADCA525 NAHÁLKOVÁ, Jarmila - ŠVITEL, J. - GEMEINER, Peter - DANIELSSON, B. - PRIBULOVÁ, Božena - PETRUŠ, Ladislav. Affinity analysis of lectin interaction with immobilized C- and O-glycosides studied by surface plasmon resonance assay. In *Journal of Biochemical and Biophysical Methods*, 2002, vol. 52, p. 11-18. ISSN 0165-022X.
Citácie:
1. [1.1] SUN, Yung-Shin - ZHU, X. D. Real-time, label-free characterization of oligosaccharide-

- binding proteins using carbohydrate microarrays and an ellipsometry-based biosensor. In INSTRUMENTATION SCIENCE & TECHNOLOGY. ISSN 1073-9149, 2017, vol. 45, no. 5, pp. 506-524., Registrované v: WOS*
- ADCA526 NAVRATIL, M. - DÖMÉNY, Z. - ŠTURDÍK, E. - ŠMOGROVIČOVÁ, D. - GEMEINER, Peter. Production of non-alcoholic beer using free and immobilized cells of *Saccharomyces cerevisiae* deficient in the tricarboxylic acid cycle. In *Biotechnology and Applied Biochemistry*, 2002, vol. 35, p. 133–140. ISSN 0885-4513.
- Citácie:
1. [1.1] JIANG, Zhumao - YANG, Baoyu - LIU, Xiao - ZHANG, Song - SHAN, Jing - LIU, Jie - WANG, Xiaoran. A novel approach for the production of a non-alcohol beer ($\leq 0.5\%$ abv) by a combination of limited fermentation and vacuum distillation. In *JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 4, pp. 533-536., Registrované v: WOS*
- ADCA527 NAVRATIL, 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.
- Citácie:
1. [1.1] AYMARD, Chloe - BONAVENTURA, Celia - HENKENS, Robert - MOUSTY, Christine - HECQUET, Laurence - CHARMANTRAY, Franck - BLUM, Loic J. - DOUMECHE, Bastien. High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. In *CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 957-966., Registrované v: WOS*
2. [1.1] POLJUNGREED, Issara - BOONYARATTANAKALIN, Siwarutt. Dihydroxyacetone production by *Gluconobacter frateurii* in a minimum medium using fed-batch fermentation. In *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, 2017, vol. 92, no. 10, pp. 2635-2641., Registrované v: WOS*
- ADCA528 NAVRATIL, 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.
- Citácie:
1. [1.1] AKALIN, Husne - BAYRAM, Mustafa - ANLI, Rahmi Ertan. Determination of some individual phenolic compounds and antioxidant capacity of mead produced from different types of honey. In *JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 1, pp. 167-174., Registrované v: WOS*
2. [1.1] GAGLIO, Raimondo - ALFONZO, Antonio - FRANCESCA, Nicola - CORONA, Onofrio - DI GERLANDO, Rosalia - COLUMBA, Pietro - MOSCHETTI, Giancarlo. Production of the Sicilian distillate "Spiritu re fascitrari" from honey by-products: An interesting source of yeast diversity. In *INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2017, vol. 261, no., pp. 62-72., Registrované v: WOS*
3. [1.1] PEREIRA, A. P. - OLIVEIRA, J. M. - MENDES-FERREIRA, A. - ESTEVINHO, L. M. - MENDES-FAIA, A. Mead and Other Fermented Beverages. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: FOOD AND BEVERAGES INDUSTRY, 2017, vol., no., pp. 407-434., Registrované v: WOS*
4. [1.1] SROKA, Pawel - SATORA, Pawel - TARKO, Tomasz - DUDA-CHODAK, Aleksandra. The influence of yeast immobilization on selected parameters of young meads. In *JOURNAL OF THE INSTITUTE OF BREWING. ISSN 0046-9750, 2017, vol. 123, no. 2, pp. 289-295., Registrované v: WOS*
- ADCA529 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. (1.000 - IF2014). (2015 - Current Contents). ISSN 0015-5632.
- Citácie:
1. [1.2] DESHPANDE, Mukund V. - MANE, Sarika S. - GHORMADE, Vandana - TUPE, Santosh G. Diversity of natural yeast flora of grapes and its significance in wine making. In *Yeast Diversity in Human Welfare, 2017-05-13, pp. 1-27., Registrované v: SCOPUS*
- ADCA530 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. (2.274 - IF2007). (2008 - Current Contents). ISSN 0378-1097.
- Citácie:
1. [1.1] BARRA, Lena - BARAC, Paul - KOENIG, Gabriele M. - CRUESEMANN, Max - DICKSCHAT, Jeroen S. Volatiles from the fungal microbiome of the marine sponge *Callispongia cf. flammea*. In *ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 35, pp. 7411-7421., Registrované v: WOS*

2. [1.1] DICKSCHAT, Jeroen S. Fungal volatiles a survey from edible mushrooms to moulds. In *NATURAL PRODUCT REPORTS*. ISSN 0265-0568, 2017, vol. 34, no. 3, pp. 310-328., Registrované v: WOS
3. [1.1] GESSLER, N. N. - FILIPPOVICH, S. Yu. - BACHURINA, G. P. - KHARCHENKO, E. A. - GROZA, N. V. - BELOZERSKAYA, T. A. Oxylipins and Oxylipin Synthesis Pathways in Fungi. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 628-639., Registrované v: WOS
4. [1.1] GESSLER, N. N. - FILIPPOVICH, S. Yu. - BACHURINA, G. P. - KHARCHENKO, E. A. - GROZA, N. V. - BELOZERSKAYA, T. A. Oxylipins and Oxylipin Synthesis Pathways in Fungi. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 628-639., Registrované v: WOS
5. [1.1] GUNESER, Onur - YUCEER, Yonca Karagul. Biosynthesis of eight-carbon volatiles from tomato and pepper pomaces by fungi: *Trichoderma atroviride* and *Aspergillus sojae*. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2017, vol. 123, no. 4, pp. 451-459., Registrované v: WOS
6. [1.1] JONES, Stephanie E. - ELLIOT, Marie A. Streptomyces Exploration: Competition, Volatile Communication and New Bacterial Behaviours. In *TRENDS IN MICROBIOLOGY*. ISSN 0966-842X, 2017, vol. 25, no. 7, pp. 523-532., Registrované v: WOS
7. [1.1] MISHRA, Vineet Kumar - PASSARI, Ajit Kumar - CHANDRA, Preeti - LEO, Vincent Vineeth - KUMAR, Brijesh - UTHANDI, Sivakumar - THANKAPPAN, Sugitha - GUPTA, Vijai Kumar - SINGH, Bhim Pratap. Determination and production of antimicrobial compounds by *Aspergillus clavatonanicus* strain MJ31, an endophytic fungus from *Mirabilis jalapa* L. using UPLC-ESIMS/MS and TD-GC-MS analysis. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 10, pp., Registrované v: WOS
8. [1.1] MUNIZ-PAREDES, Facundo - MIRANDA-HERNANDEZ, Francisco - LOERA, Octavio. Production of conidia by entomopathogenic fungi: from inoculants to final quality tests. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 3, pp., Registrované v: WOS
9. [1.1] PIECHULLA, Birgit - LEMFACK, Marie Chantal - KAI, Marco. Effects of discrete bioactive microbial volatiles on plants and fungi. In *PLANT CELL AND ENVIRONMENT*. ISSN 0140-7791, 2017, vol. 40, no. 10, pp. 2042-2067., Registrované v: WOS
10. [1.1] SCHULZ-BOHM, Kristin - MARTIN-SANCHEZ, Lara - GARBEVA, Paolina. Microbial Volatiles: Small Molecules with an Important Role in Infra- and Inter-Kingdom Interactions. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
11. [1.2] KEMLER, Martin - WITFELD, Frederick - BEGEROW, Dominik - YURKOV, Andrey. Phylloplane yeasts in temperate climates. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 171-197., Registrované v: SCOPUS
12. [1.2] KIDWAI, Mohd Kashif - NEHRA, Manju. Biotechnological applications of *Trichoderma* species for environmental and food security. In *Plant Biotechnology: Recent Advancements and Developments*, 2017-05-31, pp. 125-156., Registrované v: SCOPUS
13. [1.2] MEENA, Mukesh - SWAPNIL, Prashant - ZEHR, Andleeb - DUBEY, Manish Kumar - UPADHYAY, R. S. Antagonistic assessment of *Trichoderma* spp. by producing volatile and non-volatile compounds against different fungal pathogens. In *Archives of Phytopathology and Plant Protection*. ISSN 03235408, 2017-08-27, 50, 13-14, pp. 629-648., Registrované v: SCOPUS
14. [1.2] MORATH, Shannon U. - BOLAND, Caitlin E. - BENNETT, Joan W. *Saccharomyces cerevisiae* as a model for screening the effects of volatile organic compounds. In *Current Biotechnology*. ISSN 22115501, 2017-02-01, 6, 1, pp. 1-7., Registrované v: SCOPUS

ADCA531

NEMČOVIČ, Marek - FARKAŠ, Vladimír. Cell-wall composition and polysaccharide synthase activity changes following photoinduction in *Trichoderma viride*. In *Acta biologica Hungarica*, 2001, vol. 52, p. 281-288. ISSN 0236-5383.

Citácie:

1. [1.1] NIEWIADOMSKA, Monika - JANIK, Anna - PERLINSKA-LENART, Urszula - PILSYK, Sebastian - PALAMARCZYK, Grayna - KRUSZEWSKA, Joanna S. The role of Alg13 N-acetylglucosaminyl transferase in the expression of pathogenic features of *Candida albicans*. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 4, pp. 789-801., Registrované v: WOS

ADCA532

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. (1.882 - IF2012). (2013 - Current Contents). ISSN 0282-0080.

Citácie:

1. [1.1] WALSKI, Tomasz - DE SCHUTTER, Kristof - VAN DAMME, Els J. M. - SMAGGHE, Guy. Diversity and functions of protein glycosylation in insects. In *INSECT BIOCHEMISTRY AND*

- MOLECULAR BIOLOGY. ISSN 0965-1748, 2017, vol. 83, no., pp. 21-34., Registrované v: WOS
2. [1.1] WEDD, Laura - ASHBY, Regan - FORET, Sylvain - MALESZKA, Ryszard. Developmental and loco-like effects of a swainsonine-induced inhibition of alpha-mannosidase in the honey bee, *Apis mellifera*. In PEERJ. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
- ADCA533 NOSÁĽOVÁ, 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. (1.899 - IF2010). ISSN 0367-326X.
- Citácie:
1. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS
- ADCA534 NOSÁĽOVÁ, Gabriela - JUREČEK, Ludovít - TURJAN, Jozef - CAPEK, Peter - PRISENŽŇÁKOVÁ, Ľudmila - FRAŇOVÁ, Soňa. The cough suppressive activity of sulfated glucuronoxylan from Fagus sylvatica L. In International Journal of Biological Macromolecules, 2014, vol. 67, p. 312-317. (3.096 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
1. [1.1] ZHAO, Xianhai - TONG, Tingting - LI, HuiLing - LU, Haojun - REN, Junli - ZHANG, Aiping - DENG, Xiaomei - CHEN, Xiaoyang - WU, Ai-Min. Characterization of hemicelluloses from Neolamarckia cadamba (Rubiaceae) during xylogenesis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 156, no., pp. 333-339., Registrované v: WOS
- ADCA535 NOUAILLE, R. - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - DELORT, A.-M. - FORANO, A. Production of oligosaccharides and cellobionic acid by Fibrobacter succinogenes S85 growing on sugars, cellulose and wheat straw. In Applied Microbiology and Biotechnology, 2009, vol. 83, p. 425-433. (2.569 - IF2008). (2009 - Current Contents). ISSN 0175-7598.
- Citácie:
1. [1.1] GHALI, Ines - SOFYAN, Ahmad - OHMORI, Hideyuki - SHINKAI, Takumi - MITSUMORI, Makoto. Diauxic growth of Fibrobacter succinogenes S85 on cellobiose and lactose. In FEMS MICROBIOLOGY LETTERS. ISSN 0378-1097, 2017, vol. 364, no. 15, pp., Registrované v: WOS
2. [1.1] NEUMANN, Anthony P. - MCCORMICK, Caroline A. - SUEN, Garret. Fibrobacter communities in the gastrointestinal tracts of diverse hindgut-fermenting herbivores are distinct from those of the rumen. In ENVIRONMENTAL MICROBIOLOGY. ISSN 1462-2912, 2017, vol. 19, no. 9, pp. 3768-3783., Registrované v: WOS
- ADCA536 NOUAILLE, R. - MATULOVÁ, Mária - DELORT, A.-M. - FORANO, E. Oligosaccharide synthesis in Fibrobacter succinogenes S85 and its modulation by the substrate. In FEBS Journal, 2005, vol. 272, p. 2416-2427. (2005 - Current Contents). ISSN 1742-464X.
- Citácie:
1. [1.2] Behera, B. K., & Varma, A. (2017). In Microbial Biomass Process Technologies and Management (Springer, pp. 1-306), Registrované v: SCOPUS
- ADCA537 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. (2.139 - IF2005). (2006 - Current Contents). ISSN 0166-0934.
- Citácie:
1. [1.1] LAU, Han Yih - BOTELLA, Jose R. Advanced DNA-Based Point-of-Care Diagnostic Methods for Plant Diseases Detection. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
- ADCA538 NURISSO, A. - KOZMON, Stanislav - IMBERTY, A. Comparison of docking methods for carbohydrate binding in calcium-dependent lectins and prediction of the carbohydrate binding mode to sea cucumber lectin CEL-III. In Molecular Simulation, 2008, vol. 34, p. 469-479. ISSN 0892-7022.
- Citácie:
1. [1.2] DINGJIAN, Tamir - YURIEV, Elizabeth - RAMSLAND, Paul A. Computational approaches for studying carbohydrate-lectin interactions in infection. In Glycobiology and Human Diseases, 2016-02-22, pp. 129-147., Registrované v: SCOPUS
- ADCA539 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. 220-226. (3.607 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 1520-6106.
- Citácie:
1. [1.1] BOSE-BASU, Bidisha - ZHANG, Wenhui - KENNEDY, Jamie L. W. - HADAD, Matthew J. - CARMICHAEL, Ian - SERIANNI, Anthony S. C-13-Labeled Idohexopyranosyl Rings: Effects of Methyl Glycosidation and C6 Oxidation on Ring Conformational Equilibria. In JOURNAL OF

- ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 3, pp. 1356-1370., Registrované v: WOS
2. [1.1] VICKMAN, Alison E. - ASHLEY, Daniel C. - BAIK, Mu-Hyun - POHL, Nicola L. B. Effects of varying the 6-position oxidation state of hexopyranoses: a systematic comparative computational analysis of 48 monosaccharide stereoisomers. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 7, pp., Registrované v: WOS
- ADCA540 ODONMAZING, 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. ISSN 0008-6215.
- Citácie:
1. [1.1] CANTU-JUNGLES, Thaisa Moro - IACOMINI, Marcello - CIPRIANI, Thales R. - CORDEIRO, Lucimara M. C. Extraction and characterization of pectins from primary cell walls of edible acai (*Euterpe oleracea*) berries, fruits of a monocotyledon palm. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 158, no., pp. 37-43., Registrované v: WOS
2. [1.1] IMAIZUMI, Chiemi - TOMATSU, Harumi - KITAZAWA, Kiminari - YOSHIMI, Yoshihisa - SHIBANO, Seiji - KIKUCHI, Kaoru - YAMAGUCHI, Masatoshi - KANEKO, Satoshi - TSUMURAYA, Yoichi - KOTAKE, Toshihisa. Heterologous expression and characterization of an *Arabidopsis* beta-L-arabinopyranosidase and alpha-D-galactosidases acting on beta-L-arabinopyranosyl residues. In JOURNAL OF EXPERIMENTAL BOTANY. ISSN 0022-0957, 2017, vol. 68, no. 16, pp. 4651-4661., Registrované v: WOS
3. [1.1] KONG, Ruiping - ZHU, Xingyi - METELEVA, Elizaveta S. - CHISTYACHENKO, Yulia S. - SUNTSOVA, Lyubov P. - POLYAKOV, Nikolay E. - KHVOSTOV, Mikhail V. - BAEV, Dmitry S. - TOLSTIKOVA, Tatjana G. - YU, Jianming - DUSHKIN, Alexander V. - SU, Weike. Enhanced solubility and bioavailability of simvastatin by mechanochemically obtained complexes. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2017, vol. 534, no. 1-2, pp. 108-118., Registrované v: WOS
4. [1.1] MAKAROVA, Elena N. - SHAKHMATOV, Evgeny G. - BELYY, Vladimir A. Seasonal dynamics of polysaccharides in Norway spruce (*Picea abies*). In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 686-694., Registrované v: WOS
5. [1.1] MOGHTADERI, Hassan - SEPEHRI, Hourri - ATTARI, Farnoosh. Combination of arabinogalactan and curcumin induces apoptosis in breast cancer cells in vitro and inhibits tumor growth via overexpression of p53 level in vivo. In BIOMEDICINE & PHARMACOTHERAPY. ISSN 0753-3322, 2017, vol. 88, no., pp. 582-594., Registrované v: WOS
- ADCA541 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. (3.997 - IF2015). (2016 - Current Contents). ISSN 0261-3069.
- Citácie:
1. [1.1] DEVILLE, S. Ice-Templating and Freeze-Casting: Control of the Processes, Microstructures, and Architectures. In FREEZING COLLOIDS: OBSERVATIONS, PRINCIPLES, CONTROL, AND USE: APPLICATIONS IN MATERIALS SCIENCE, LIFE SCIENCE, EARTH SCIENCE, FOOD SCIENCE, AND ENGINEERING. ISSN 1619-0181, 2017, p. 351-438., Registrované v: WOS
- ADCA542 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. (3.993 - IF2015). (2016 - Current Contents). ISSN 0743-7463.
- Citácie:
1. [1.1] GAO, X.Y. - GUO, Z.G. Biomimetic Superhydrophobic Surfaces with Transition Metals and Their Oxides: A Review. In JOURNAL OF BIONIC ENGINEERING. ISSN 1672-6529, JUL 2017, vol. 14, no. 3, p. 401-439., Registrované v: WOS
2. [1.1] GUSELNIKOVA, O. - SVANDA, J. - POSTNIKOV, P. - KALACHYOVA, Y. - SVORCIK, V. - LYUTAKOV, O. Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, MAR 9 2017, vol. 4, no. 5., Registrované v: WOS
3. [1.1] LIU, Y.A. - SU, Y.L. - CAO, J.L. - GUAN, J.Y. - XU, L.Y. - ZHANG, R.N. - HE, M.R. - ZHANG, Q. - FAN, L. - JIANG, Z.Y. Synergy of the mechanical, antifouling and permeation properties of a carbon nanotube nanohybrid membrane for efficient oil/water separation. In NANOSCALE. ISSN 2040-3364, JUN 14 2017, vol. 9, no. 22, p. 7508-7518., Registrované v: WOS
4. [1.1] LIU, Y.N. - SU, Y.L. - CAO, J.L. - GUAN, J.Y. - ZHANG, R.N. - HE, M.R. - FAN, L. - ZHANG, Q. - JIANG, Z.Y. Antifouling, high-flux oil/water separation carbon nanotube membranes by polymer-mediated surface charging and hydrophilization. In JOURNAL OF MEMBRANE SCIENCE. ISSN 0376-7388, NOV 15 2017, vol. 542, p. 254-263., Registrované v: WOS

5. [1.1] QING, Y.Q. - HU, C.B. - YANG, C.N. - AN, K. - TANG, F.W. - TAN, J.Y. - LIU, C.S. Rough Structure of Electrodeposition as a Template for an Ultrarobust Self-Cleaning Surface. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, MAY 17 2017, vol. 9, no. 19, p. 16571-16580., Registrované v: WOS
6. [1.1] RATHER, A.M. - JANA, N. - HAZARIKA, P. - MANNA, U. Sustainable polymeric material for the facile and repetitive removal of oil-spills through the complementary use of both selective-absorption and active-filtration processes. In JOURNAL OF MATERIALS CHEMISTRY A. ISSN 2050-7488, NOV 28 2017, vol. 5, no. 44, p. 23339-23348., Registrované v: WOS
7. [1.1] WU, H.P. - ZHU, K. - CAO, B.B. - ZHANG, Z. - WU, B.B. - LIANG, L.H. - CHAI, G.Z. - LIU, A.P. Smart design of wettability-patterned gradients on substrate-independent coated surfaces to control unidirectional spreading of droplets. In SOFT MATTER. ISSN 1744-683X, APR 28 2017, vol. 13, no. 16, p. 2995-3002., Registrované v: WOS
8. [1.2] SALUNKE, N.- NALLAPANENI, A.- YUAN, G.- STAFFORD, C.M.- NIU, H.- SHAWKEY, M.D.- WEISS, R.A.- KARIM, A. Film Confinement Induced "jump-Percolation" Wetting Transition in Amphiphilic Block Copolymer Films. (2017) ACS Applied Materials and Interfaces, 9 (40), p. 35349-35359., Registrované v: Scopus

ADCA543

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. (46.568 - IF2014). (2015 - Current Contents). ISSN 0009-2665.

Citácie:

1. [1.1] ABREU, Dieric S. - SOUSA, Ticyano P. - CASTRO, Caio B. - SOUSA, Mayara N. V. - SILVA, Thiago T. - ALMEIDA-NETO, Francisco W. Q. - QUEIROS, Marcos V. A. - RODRIGUES, Barbara S. F. - OLIVEIRA, Maria C. F. - PAULO, Tercio F. - CAVADA, Benildo S. - NASCIMENTO, Kyria S. - TEMPERINI, Marcia L. A. - DIOGENES, Izaura C. N. SAM of Gliotoxin on Gold: A Natural Product Platform for Sugar Recognition based on the Immobilization of Canavalia brasiliensis lectin (ConBr). In ELECTROCHIMICA ACTA. ISSN 0013-4686, 2017, vol. 241, no., pp. 116-123., Registrované v: WOS
2. [1.1] AKRAM, Mohd - ANSARI, Farah - BHAT, Imtiyaz Ahmad - CHATURVEDI, Sumit Kumar - KHAN, Rizwan Hasan - KABIR-UD-DIN. Analyzing the interaction between porcine serum albumin (PSA) and ester-functionalized cationic gemini surfactants. In PROCESS BIOCHEMISTRY. ISSN 1359-5113, 2017, vol. 63, no., pp. 145-153., Registrované v: WOS
3. [1.1] BISELLO, Annalisa - CARDENA, Roberta - ROSSI, Serena - CRISMA, Marco - FORMAGGIO, Fernando - SANTI, Saverio. Hydrogen-Bond-Assisted, Concentration-Dependent Molecular Dimerization of Ferrocenyl Hydantoins. In ORGANOMETALLICS. ISSN 0276-7333, 2017, vol. 36, no. 11, pp. 2190-2197., Registrované v: WOS
4. [1.1] BLEL, Nesrine - FOURATI, Najla - SOUIRI, Mina - ZERROUKI, Chouki - OMEZZINE, Asma - BOUSLAMA, Ali - OTHMANC, Ali. Ultrasensitive Electrochemical Sensors for PSA Detection: Related Surface Functionalization Strategies. In CURRENT TOPICS IN MEDICINAL CHEMISTRY. ISSN 1568-0266, 2017, vol. 17, no. 26, pp. 2913-2925., Registrované v: WOS
5. [1.1] CARDOVA, Alzbeta - ADAM, Pavlina - MARIANI, Stefano - RICHTERA, Lukas - HEGER, Zbynek - LABUDA, Jan - MINUNNI, Maria - ADAM, Vojtech. Electrochemical and optical study of metallothionein interactions with prion proteins. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2017, vol. 140, no., pp. 355-361., Registrované v: WOS
6. [1.1] DING, Lin - ZHANG, Hongtao. Detection of Insulin-Like Growth Factor 1 Based on an Electrochemical Impedance Spectroscopy Sensor. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 12, pp. 11163-11170., Registrované v: WOS
7. [1.1] DUBENSKA, L. O. - BLAZHEJEVSKYJ, M. Ye. - PLOTYCYA, S. I. - PYLYPETS, M. Ya. - SARAHMAN, O. M. Voltammetric Methods for the Determination of Pharmaceuticals. In METHODS AND OBJECTS OF CHEMICAL ANALYSIS. ISSN 1991-0290, 2017, vol. 12, no. 2, pp. 61-75., Registrované v: WOS
8. [1.1] ENACHE, Teodor Adrian - OLIVEIRA-BRETT, Ana Maria. Alzheimer's disease amyloid beta peptides in vitro electrochemical oxidation. In BIOELECTROCHEMISTRY. ISSN 1567-5394, 2017, vol. 114, no., pp. 13-23., Registrované v: WOS
9. [1.1] FOJTA, Miroslav - DANHEL, Ales - SPACEK, Jan - HAVRAN, Ludek - SEBEST, Peter - ORSAG, Petr - PIVONKOVA, Hana - VOSAHLLOVA, Jana - SCHWARZOVA-PECKOVA, Karolina. Utilization of Catalytic Hydrogen Evolution in Electrochemical Analysis of Nucleic Acids. In XXXVII MODERNI ELEKTROCHEMICKÉ METODY, 2017, vol., no., pp. 42-45., Registrované v: WOS
10. [1.1] HAN, Yong Duk - KIM, Ka Ram - PARK, Yoo Min - SONG, Seung Yeon - YANG, Yong Ju - LEE, Kangsun - KU, Yunhee - YOON, Hyun C. Boronate-functionalized hydrogel as a novel

- biosensing interface for the glycated hemoglobin A1c (HbA(1c)) based on the competitive binding with signaling glycoprotein. In *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*. ISSN 0928-4931, 2017, vol. 77, no., pp. 1160-1169., Registrované v: WOS
11. [1.1] JODA, Hamdi - SEDOVA, Ada - AWAN, Waqas - FLECHSIG, Gerd-Uwe. The Osmium Tetroxide Bipyridine-labeled DNA Probe: Hairpin Conformations and Characterization of Redox-label Behavior. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 1, pp. 51-59., Registrované v: WOS
12. [1.1] JOSEPH, Delina - RODRIGUEZ, Raul D. - VERMA, Akash - POUSANEH, Elaheh - ZAHN, Dietrich R. T. - LANG, Heinrich - CHANDRA, Sudeshna. Electrochemistry and surface-enhanced Raman spectroscopy of CTAB modulated interactions of magnetic nanoparticles with biomolecules. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 7, pp. 3628-3634., Registrované v: WOS
13. [1.1] KONG, Lingdong - DU, Zhongyu - XIE, Zengyang - CHEN, Ruijiao - JIA, Shaohui - DONG, Ruixia - SUN, Zhaolan - SUN, Wei. Electrochemistry of Hemoglobin-Ionic Liquid-Graphene-SnO₂ Nanosheet Composite Modified Electrode and Electrocatalysis. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2017, vol. 12, no. 3, pp. 2297-2305., Registrované v: WOS
14. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS
15. [1.1] LOENEN, W. A. M. S-Adenosylmethionine Metabolism: A Promising Avenue in Anti-Aging Medicine? In *ANTI-AGING DRUGS: FROM BASIC RESEARCH TO CLINICAL PRACTICE*. ISSN 2041-3203, 2017, vol. 57, no., pp. 435-473., Registrované v: WOS
16. [1.1] MARTINKOVA, Pavla - KOSTELNIK, Adam - VALEK, Tomas - POHANKA, Miroslav. Main streams in the Construction of Biosensors and Their Applications. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2017, vol. 12, no. 8, pp. 7386-7403., Registrované v: WOS
17. [1.1] MOUSAVI, Mir F. - AMIRI, Masoud - NOORI, Abolhassan - KHOSHFETRAT, Seyyed Mehdi. A Prostate Specific Antigen Immunosensor Based on Biotinylated-Antibody/Cyclodextrin Inclusion Complex: Fabrication and Electrochemical Studies. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 12, pp. 2818-2831., Registrované v: WOS
18. [1.1] NOVAK, David - SVRCKOVA, Marika - ZATLOUKALVO, Martina - DVORAKOVA, Petra - COUFALOVA, Dominika - HEMYCHOVA, Lenka - VACEK, Jan. Monitoring Dicarboxyl Stress in Na⁺/K⁺ ATPase by Electrochemical and Mass Spectrometric Methods. In *XXXVII MODERNI ELEKTROCHEMICKÉ METODY*, 2017, vol., no., pp. 158-162., Registrované v: WOS
19. [1.1] SIERRA, Tania - CREVILLEN, Agustin G. - ESCARPA, Alberto. Derivatization agents for electrochemical detection in amino acid, peptide and protein separations: The hidden electrochemistry? In *ELECTROPHORESIS*. ISSN 0173-0835, 2017, vol. 38, no. 21, pp. 2695-2703., Registrované v: WOS
20. [1.1] STAN, Razvan C. - KROS, Alexander - AKKILIC, Namik - SANGHAMITRA, Nusrat J. M. - APPEL, Jeroen. Direct wiring of the azurin redox center to gold electrodes investigated by protein film voltammetry. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY*. ISSN 1572-6657, 2017, vol. 787, no., pp. 14-18., Registrované v: WOS
21. [1.1] SUPRUN, Elena V. - RADKO, Sergey P. - FARAFONOVA, Tatiana E. - KOZIN, Sergey A. - MAKAROV, Alexander A. - ARCHAKOV, Alexander I. - SHUMYANTSEVA, Victoria V. Electrochemical detection of protein post-translational modifications: Phosphorylation and nitration of amyloid-beta (1-16). In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 258, no., pp. 1182-1190., Registrované v: WOS
22. [1.1] SUPRUN, Elena V. - RADKO, Sergey P. - KHMELEVA, Svetlana A. - MITKEVICH, Vladimir A. - ARCHAKOV, Alexander I. - MAKAROV, Alexander A. - SHUMYANTSEV, Victoria V. Electrochemical oxidation of amyloid-beta peptide isoforms on carbon screen printed electrodes. In *ELECTROCHEMISTRY COMMUNICATIONS*. ISSN 1388-2481, 2017, vol. 75, no., pp. 33-37., Registrované v: WOS
23. [1.1] SVRCKOVA, Marika - ZATLOUKALOVA, Martina - DVORAKOVA, Petra - COUFALOVA, Dominika - NOVAK, David - HERNYCHOVA, Lenka - VACEK, Jan. Na⁺/K⁺-ATPase interaction with methylglyoxal as reactive metabolic side product. In *FREE RADICAL BIOLOGY AND MEDICINE*. ISSN 0891-5849, 2017, vol. 108, no., pp. 146-154., Registrované v: WOS
24. [1.1] VACEK, Jan - NOVAK, David - ZATLOUKALOVA, Martina. New Directions in the Electrochemistry of Biomacromolecules: Short Overview and Discussion. In *CHEMICKÉ LISTY*.

ISSN 0009-2770, 2017, vol. 111, no. 7, pp. 430-438., Registrované v: WOS

25. [1.1] VASILESCU, Alina - BOULAHNECHE, Samia - CHEKIN, Fereshteh - GASPARD, Szilveszter - MEDJRAM, Mohamed Salah - DIAGNE, Abdou Aziz - SINGH, Santosh K. - KURUNGOT, Sreekumar - BOUKHERROUB, Rabah - SZUNERITS, Sabine. Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 254, no., pp. 375-383., Registrované v: WOS

26. [1.1] YOU, Min - YANG, Shuai - TANG, Wanxin - ZHANG, Fan - HE, Pin-Gang. Ultrasensitive Electrochemical Detection of Glycoprotein Based on Boronate Affinity Sandwich Assay and Signal Amplification with Functionalized SiO₂@Au Nanocomposites. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, 2017, vol. 9, no. 16, pp. 13855-13864., Registrované v: WOS

27. [1.1] ZHANG, Jing-Jing - CHENG, Fang-Fang - ZHENG, Ting-Ting - ZHU, Jun-Jie. Versatile aptasensor for electrochemical quantification of cell surface glycan and naked-eye tracking glycolytic inhibition in living cells. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 89, no., pp. 937-945., Registrované v: WOS

28. [1.1] ZHENG, Wen - ZHAO, Wenshu - CHEN, Wei - WENG, Wenju - LIAO, Zhengwei - DONG, Ruixia - LI, Guangjiu - SUN, Wei. Effect of Carboxyl Graphene on Direct Electrochemistry of Myoglobin and Electrocatalytic Investigation. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2017, vol. 12, no. 5, pp. 4341-4350., Registrované v: WOS

ADCA544 PALEŇÁROVÁ, Klaudia, Talafová - 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. (2.871 - IF2014). (2015 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] MCARTHUR, John B. - YU, Hai - ZENG, Jie - CHEN, Xi. Converting Pasteurella multocida alpha 2-3-sialyltransferase 1 (PmST1) to a regioselective alpha 2-6-sialyltransferase by saturation mutagenesis and regioselective screening. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2017, vol. 15, no. 7, pp. 1700-1709., Registrované v: WOS

2. [1.1] SCHMOELZER, Katharina - EIBINGER, Manuel - NIDETZKY, Bernd. Active-Site His85 of Pasteurella dagmatis Sialyltransferase Facilitates Productive Sialyl Transfer and So Prevents Futile Hydrolysis of CMP-Neu5Ac. In *CHEMBIOCHEM*. ISSN 1439-4227, 2017, vol. 18, no. 15, pp. 1544-1550., Registrované v: WOS

ADCA545 PAPPAS, C.S. - MALOVIKOVÁ, 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. (1.597 - IF2003). (2004 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] HUANG, Xin - LI, Dong - WANG, Li-jun. Characterization of pectin extracted from sugar beet pulp under different drying conditions. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2017, vol. 211, no., pp. 1-6., Registrované v: WOS

2. [1.1] MOU, Fen - SUN, Yadong - JIN, Weiwei - ZHANG, Yonghong - WANG, Bin - LIU, Zhiqing - GUO, Lei - HUANG, Jianbin - LIU, Chenjiang. Reusable ionic liquid-catalyzed oxidative esterification of carboxylic acids with benzylic hydrocarbons via benzylic Csp(3)-H bond activation under metal-free conditions. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 37, pp. 23041-23045., Registrované v: WOS

3. [1.1] WANG, Wenjun - WU, Xingzhu - CHANTAPAKUL, Thunthacha - WANG, Danli - ZHANG, Song - MA, Xiaobin - DING, Tian - YE, Xingqian - LIU, Donghong. Acoustic cavitation assisted extraction of pectin from waste grapefruit peels: A green two-stage approach and its general mechanism. In *FOOD RESEARCH INTERNATIONAL*. ISSN 0963-9969, 2017, vol. 102, no., pp. 101-110., Registrované v: WOS

4. [1.1] ZHANG, Weimin - ZENG, Guanglin - PAN, Yonggui - CHEN, Wenxue - HUANG, Wuyang - CHEN, Haiming - LI, Yuansong. Properties of soluble dietary fiber-polysaccharide from papaya peel obtained through alkaline or ultrasound-assisted alkaline extraction. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 172, no., pp. 102-112., Registrované v: WOS

ADCA546 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. (2007 - Current Contents). ISSN 0006-3495.

Citácie:

1. [1.1] KUMAR, Dinesh - LOMESH, Shashi Kant - NATHAN, Vikas. Molecular interaction

studies of L-alanine and L-phenylalanine in water and in aqueous citric acid at different temperatures using volumetric, viscosity and ultrasonic methods. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 247, no., pp. 75-83., Registrované v: WOS

2. [1.1] LOMESH, Shashi Kant - KUMAR, Dinesh. Volumetric, viscosity and ultrasonic studies of solute-solute and solute-solvent interactions of glycine and diglycine in water and in aqueous citric acid at different temperatures. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, 2017, vol. 241, no., pp. 764-771., Registrované v: WOS

3. [1.1] SAGAR, Vatsala - CHATURVEDI, Sumit K. - SCHUCK, Peter - WISTOW, Graeme. Crystal Structure of Chicken gamma S-Crystallin Reveals Lattice Contacts with Implications for Function in the Lens and the Evolution of the beta gamma-Crystallins. In STRUCTURE. ISSN 0969-2126, 2017, vol. 25, no. 7, pp. 1068-+, Registrované v: WOS

4. [1.2] Schuck, P., & Zhao, H. (2017). In Sedimentation Velocity Analytical Ultracentrifugation: Interacting Systems (CRC Press, pp. 1-271), Registrované v: SCPUŠ

ADCA547 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. ISSN 0144-8617.

Citácie:

1. [1.1] ALPIZAR-REYES, E. - CARRILLO-NAVAS, H. - ROMERO-ROMERO, R. - VARELA-GUERRERO, V. - ALVAREZ-RAMIREZ, J. - PEREZ-ALONSO, C. Thermodynamic sorption properties and glass transition temperature of tamarind seed mucilage (Tamarindus indica L.). In FOOD AND BIOPRODUCTS PROCESSING. ISSN 0960-3085, 2017, vol. 101, no., pp. 166-176., Registrované v: WOS

2. [1.1] BASSI, Pallavi - KAUR, Gurpreet. Polymeric films as a promising carrier for bioadhesive drug delivery: Development, characterization and optimization. In SAUDI PHARMACEUTICAL JOURNAL. ISSN 1319-0164, 2017, vol. 25, no. 1, pp. 32-43., Registrované v: WOS

3. [1.1] HUANBUTTA, Kampanart - SITTIKIJYOTHIN, Wancheng. Development and characterization of seed gums from Tamarindus indica and Cassia fistula as disintegrating agent for fast disintegrating Thai cordial tablet. In ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 1818-0876, 2017, vol. 12, no. 4, pp. 370-377., Registrované v: WOS

4. [1.1] KANG, Ding - CAI, Zhixiang - WEI, Yue - ZHANG, Hongbin. Structure and chain conformation characteristics of high acyl gellan gum polysaccharide in DMSO with sodium nitrate. In POLYMER. ISSN 0032-3861, 2017, vol. 128, no., pp. 147-158., Registrované v: WOS

5. [1.1] WANG, Lili - LI, Rumeng - SHAO, Jianzhong - WANG, Zhao. Rheological behaviors of carboxymethyl tamarind gum as thickener on georgette printing with disperse dyes. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 26, pp., Registrované v: WOS

6. [1.2] HEBEISH, A. - RAGHEB, A. A. - ABDEL-THALOUTH, I. - ADEL YOUSEF, M. - MAHMOUD, R. M. Benign printing paste from the waste of tamarind seeds for textile printing. Part I: Basic data. In Egyptian Journal of Chemistry. ISSN 04492285, 2017-01-01, 60, pp. 117-127., Registrované v: SCOPUS

ADCA548 PAULOVICOVÁ, Ema - MACHOVÁ, Eva - TULINSKÁ, J. - BYSTRICKÝ, Slavomír. Cell and antibody mediated immunity induced by vaccination with novel Candida dubliniensis mannan immunogenic conjugate. In International Immunopharmacology, 2007, vol. 7, p. 1325-1333. ISSN 1567-5769.

Citácie:

1. [1.1] CARVALHO, Agostinho - CUNHA, Cristina - GALOSI, Claudia - ROMANI, Luigina. Antifungal Vaccines and Immunotherapeutics. In ANTIFUNGALS: FROM GENOMICS TO RESISTANCE AND THE DEVELOPMENT OF NOVEL AGENTS, 2015, vol., no., pp. 267-287., Registrované v: WOS

2. [1.1] CARVALHO, Agostinho - DUARTE-OLIVEIRA, Claudio - GONCALVES, Samuel M. - CAMPOS, Antonio - LACERDA, Joao F. - CUNHA, Cristina. Fungal Vaccines and Immunotherapeutics: Current Concepts and Future Challenges. In CURRENT FUNGAL INFECTION REPORTS. ISSN 1936-3761, 2017, vol. 11, no. 1, pp. 16-24., Registrované v: WOS

3. [1.1] MISME-AUCOUTURIER, Barbara - ALBASSIER, Marjorie - ALVAREZ-RUEDA, Nidia - LE PAPE, Patrice. Specific Human and Candida Cellular Interactions Lead to Controlled or Persistent Infection Outcomes during Granuloma-Like Formation. In INFECTION AND IMMUNITY. ISSN 0019-9567, 2017, vol. 85, no. 1, pp., Registrované v: WOS

ADCA549 PAULOVICOVÁ, Ema - BUJDÁKOVÁ, Helena - CHUPÁČOVÁ, Jarmila - PAULOVICOVÁ, 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. (2.818 -

IF2014). (2015 - Current Contents). ISSN 1567-1356.

Citácie:

1. [1.1] TONG, Yiqing - TANG, Jianguo. *Candida albicans infection and intestinal immunity. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2017, vol. 198, no., pp. 27-35., Registrované v: WOS*

ADCA550 PAULOVÍČOVÁ, Ema - BYSTRICKÝ, Slavomír - MACHOVÁ, Eva - BUJDÁKOVÁ, H. Immune responsiveness of a novel peptidoglycan conjugate prepared from surface Candida immunogens: mannan and CR3-related protein. In FEMS Immunology and medical microbiology, 2008, vol. 53, p.421-428. ISSN 0928-8244.

Citácie:

1. [1.1] TONG, Yiqing - TANG, Jianguo. *Candida albicans infection and intestinal immunity. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, 2017, vol. 198, no., pp. 27-35., Registrované v: WOS*

ADCA551 PAULOVÍČOVÁ, Lucia - ŘEZÁČ, Jan - HOBZA, Pavel. Convergence of the interaction energies in noncovalent complexes in the coupled-cluster methods up to full configuration interaction. In Journal of Chemical Theory and Computation, 2013, vol. 9, p. 3420-3428. (5.389 - IF2012). (2013 - Current Contents). ISSN 1549-9618.

Citácie:

1. [1.1] HU, Lianrui - CHEN, Kejuan - CHEN, Hui. *Modeling sigma-Bond Activations by Nickel(0) Beyond Common Approximations: How Accurately Can We Describe Closed-Shell Oxidative Addition Reactions Mediated by Low-Valent Late 3d Transition Metal? In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 10, pp. 4841-4853., Registrované v: WOS*

2. [1.1] PATKOWSKI, Konrad. *Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In ANNUAL REPORTS IN COMPUTATIONAL CHEMISTRY, VOL 13. ISSN 1574-1400, 2017, vol. 13, no., pp. 3-91., Registrované v: WOS*

3. [1.2] PATKOWSKI, Konrad. *Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. In Annual Reports in Computational Chemistry. ISSN 15741400, 2017-01-01, 13, pp. 3-91., Registrované v: SCOPUS*

ADCA552 PAULOVÍČOVÁ, Lucia - PAULOVÍČOVÁ, Ema - KARELIN, A.A. - TSVETKOV, Y.E - NIFANTIEV, N. E. - BYSTRICKÝ, Slavomír. Effect of Branched α -Oligomannoside Structures on Induction of Anti-Candida Humoral Immune Response. In Scandinavian Journal of Immunology, 2013, vol. 77, p. 431-441. (2.199 - IF2012). (2013 - Current Contents). ISSN 0300-9475.

Citácie:

1. [1.1] LIMA-JUNIOR, Josue da Costa - MORGADO, Fernanda Nazare - CONCEICAO-SILVA, Fatima. *How Can Elispot Add Information to Improve Knowledge on Tropical Diseases? In CELLS. ISSN 2073-4409, 2017, vol. 6, no. 4, pp., Registrované v: WOS*

ADCA553 PAVLIAK, V. - BRISSON, J.R. - MICHON, F. - UHRÍN, Dušan - JENNINGS, H.J. Structure of the sialylated L3 lipopolysaccharide of Neisseria meningitidis. In Journal of Biological Chemistry, 1993, vol. 268, p. 14146-14152. (6.733 - IF1992). (1993 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] MUBAIWA, Tsitsi D. - SEMCHENKO, Evgeny A. - HARTLEY-TASSELL, Lauren E. - DAY, Christopher J. - JENNINGS, Michael P. - SEIB, Kate L. *The sweet side of the pathogenic Neisseria: the role of glycan interactions in colonisation and disease. In PATHOGENS AND DISEASE. ISSN 2049-632X, 2017, vol. 75, no. 5, pp., Registrované v: WOS*

ADCA554 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. (3.463 - IF2010). (2011 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] KUMAR, Pradeep - KUMAR, Vineet. *Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from Vitex negundo Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS*

2. [1.1] LAKHERA, Ajeet Kumar - KUMAR, Vineet. *Monosaccharide composition of acidic gum exudates from Indian Acacia tortilis ssp raddiana (Savi) Brenan. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 45-50., Registrované v: WOS*

ADCA555 PAWLACZYK, Izabela - CZERCHAWSKI, Leszek - KAŃSKA, Justyna - BIJAK, Joanna - CAPEK, Peter - PLISZCZAK-KRÓL, Aleksandra - GANCARZ, Roman. An acidic glycoconjugate from Lythrum salicaria L. with controversial effects on haemostasis. In Journal of Ethnopharmacology, 2010, vol. 131, p. 63-69. (2.322 - IF2009). (2010 - Current Contents). ISSN 0378-8741.

Citácie:

1. [1.2] UPADHYAY, Ravi Kant. Nutritional, therapeutic, and pharmaceutical potential of plant gums: A review. In *International Journal of Green Pharmacy*. ISSN 09738258, 2017-01-01, 11, 1, pp. S30-S48., Registrované v: SCOPUS

ADCA556

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. ISSN 0021-9258.

Citácie:

1. [1.1] BELLANDE, Kevin - BONO, Jean-Jacques - SAVELLI, Bruno - JAMET, Elisabeth - CANUT, Herve. Plant Lectins and Lectin Receptor-Like Kinases: How Do They Sense the Outside? In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS

2. [1.1] DALLABERNARDINA, Pietro - RUPRECHT, Colin - SMITH, Peter J. - HAHN, Michael G. - URBANOWICZ, Breeanna R. - PFRENGLE, Fabian. Automated glycan assembly of galactosylated xyloglucan oligosaccharides and their recognition by plant cell wall glycan-directed antibodies. In *ORGANIC & BIOMOLECULAR CHEMISTRY*. ISSN 1477-0520, 2017, vol. 15, no. 47, pp. 9996-10000., Registrované v: WOS

3. [1.1] DENIAUD-BOUET, Estelle - HARDOUIN, Kevin - POTIN, Philippe - KLOAREG, Bernard - HERVE, Cecile. A review about brown algal cell walls and fucose-containing sulfated polysaccharides: Cell wall context, biomedical properties and key research challenges. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 175, no., pp. 395-408., Registrované v: WOS

4. [1.1] DJAJADI, Demi T. - HANSEN, Aleksander R. - JENSEN, Anders - THYGESEN, Lisbeth G. - PINELO, Manuel - MEYER, Anne S. - JORGENSEN, Henning. Surface properties correlate to the digestibility of hydrothermally pretreated lignocellulosic Poaceae biomass feedstocks. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

5. [1.1] GAWECKI, Robert - SALA, Katarzyna - KURCZYNSKA, Ewa U. - SWIATEK, Piotr - PLACHNO, Bartosz J. Immunodetection of some pectic, arabinogalactan proteins and hemicellulose epitopes in the micropylar transmitting tissue of apomictic dandelions (*Taraxacum*, *Asteraceae*, *Lactuceae*). In *PROTOPLASMA*. ISSN 0033-183X, 2017, vol. 254, no. 2, pp. 657-668., Registrované v: WOS

6. [1.1] PEDERSEN, Ninfa Rangel - RAVN, Jonas Laukonnen - PETTERSSON, Dan. A multienzyme NSP product solubilises and degrades NSP structures in canola and mediates protein solubilisation and degradation in vitro. In *ANIMAL FEED SCIENCE AND TECHNOLOGY*. ISSN 0377-8401, 2017, vol. 234, no., pp. 244-252., Registrované v: WOS

7. [1.1] PFRENGLE, Fabian. Synthetic plant glycans. In *CURRENT OPINION IN CHEMICAL BIOLOGY*. ISSN 1367-5931, 2017, vol. 40, no., pp. 145-151., Registrované v: WOS

8. [1.1] RAGUIN, Adelaide - EBENHOEH, Oliver. Design starch: stochastic modeling of starch granule biogenesis. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. ISSN 0300-5127, 2017, vol. 45, no., pp. 885-893., Registrované v: WOS

9. [1.1] RASOOL, Brwa - MCGOWAN, Jack - PASTOK, Daria - MARCUS, Sue E. - MORRIS, Jenny A. - VERRALL, Susan R. - HEDLEY, Peter E. - HANCOCK, Robert D. - FOYER, Christine H. Redox Control of Aphid Resistance through Altered Cell Wall Composition and Nutritional Quality. In *PLANT PHYSIOLOGY*. ISSN 0032-0889, 2017, vol. 175, no. 1, pp. 259-271., Registrované v: WOS

10. [1.1] VAN MUNSTER, Jolanda M. - THOMAS, Baptiste - RIESE, Michel - DAVIS, Adrienne L. - GRAY, Christopher J. - ARCHER, David B. - FLITSCH, Sabine L. Application of carbohydrate arrays coupled with mass spectrometry to detect activity of plant-polysaccharide degradative enzymes from the fungus *Aspergillus niger*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

11. [1.1] ZHONG, Ruiqin - TENG, Quincy - HAGHIGHAT, Marziyeh - YUAN, Youxi - FUREY, Samuel T. - DASHER, Robert L. - YE, Zheng-Hua. Cytosol-Localized UDP-Xylose Synthases Provide the Major Source of UDP-Xylose for the Biosynthesis of Xylan and Xyloglucan. In *PLANT AND CELL PHYSIOLOGY*. ISSN 0032-0781, 2017, vol. 58, no. 1, pp. 156-174., Registrované v: WOS

ADCA557

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 (curdlan) synthase: Co-translational insertion in liposomes and reconstitution in nanodiscs. In *Biochimica et Biophysica Acta : Biomembranes*, 2013, vol. 1828, p. 743-757. (3.389 - IF2012). (2013 - Current Contents). ISSN 0005-2736.

Citácie:

1. [1.1] DANIELCZAK, B. - ARENAS, R. Cuevas - MARTEL, A. - PORCAR, L. - BREYTON, C. - EBEL, C. - KELLER, S. Fast collisional lipid transfer among polymer-bounded nanodiscs. In *EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS*. ISSN 0175-7571, 2017, vol. 46, no., pp. S301-S301., Registrované v: WOS
2. [1.1] DENISOV, Ilia G. - SLIGARI, Stephen G. Nanodiscs in Membrane Biochemistry and Biophysics. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 6, pp. 4669-4713., Registrované v: WOS
3. [1.1] HSIEH, Wen-Chuan - HSU, Chia-Chi - SHIU, Li-Yen - ZENG, Yu-Jing. Biocompatible testing and physical properties of curdlan-grafted poly(vinyl alcohol) scaffold for bone tissue engineering. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 1341-1348., Registrované v: WOS
4. [1.1] INAGAKI, Sayaka - GHIRLANDO, Rodolfo. Nanodisc characterization by analytical ultracentrifugation. In *NANOTECHNOLOGY REVIEWS*. ISSN 2191-9089, 2017, vol. 6, no. 1, pp. 3-14., Registrované v: WOS
5. [1.1] LOUGHRAN, Sinead T. - WALLS, Dermot. Tagging Recombinant Proteins to Enhance Solubility and Aid Purification. In *PROTEIN CHROMATOGRAPHY: METHODS AND PROTOCOLS, 2ND EDITION*. ISSN 1064-3745, 2017, vol. 1485, no., pp. 131-156., Registrované v: WOS
6. [1.1] ROUCK, John E. - KRAPP, John E. - ROY, Jahnabi - HUFF, Hannah C. - DAS, Aditi. Recent advances in nanodisc technology for membrane protein studies (2012-2017). In *FEBS LETTERS*. ISSN 1873-3468, 2017, vol. 591, no. 14, pp. 2057-2088., Registrované v: WOS
7. [1.1] ZOGHBI, Maria E. - ALTENBERG, Guillermo A. Membrane protein reconstitution in nanodiscs for luminescence spectroscopy studies. In *NANOTECHNOLOGY REVIEWS*. ISSN 2191-9089, 2017, vol. 6, no. 1, pp. 33-46., Registrované v: WOS

ADCA558

PERI, F. - MARINZI, C. - BARÁTH, Marek - GRANUCCI, F. - URBANO, M. - NICOTRA, F. Synthesis and biological evaluation of novel lipid A antagonists. In *Bioorganic & Medicinal Chemistry*, 2006, vol. 14, p. 190-199. (2.286 - IF2005). (2006 - Current Contents). ISSN 0968-0896.

Citácie:

1. [1.1] PIFFERI, Carlo - DASKHAN, Gour Chand - FIORE, Michele - SHIAO, Tze Chieh - ROY, Rene - RENAUDET, Olivier. Aminoxyated Carbohydrates: Synthesis and Applications. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 9839-9873., Registrované v: WOS
2. [1.1] VILLADSEN, Klaus - MARTOS-MALDONADO, Manuel C. - JENSEN, Knud J. - THYGESEN, Mikkel B. Chemoselective Reactions for the Synthesis of Glycoconjugates from Unprotected Carbohydrates. In *CHEMBIOCHEM*. ISSN 1439-4227, 2017, vol. 18, no. 7, pp. 574-612., Registrované v: WOS

ADCA559

PERI, F. - JIMÉNEZ-BARBERO, J. - GARCIA-APARICIO, V. - TVAROŠKA, Igor - NICOTRA, F. Synthesis and conformational analysis of novel N(OCH₃)-linked disaccharide analogues. In *Chemistry - A European Journal*, 2004, vol. 10, p. 1433-1444.

Citácie:

1. [1.1] CHENG, Shuihong - WU, Peixing - HAN, Jing - WANG, Yiren - CUI, Yuting - ZHANG, Zhenxing - YAMAGATA, Tatsuya - LI, Xuebing. Synthesis and biological evaluation of neoglycosphingolipids. In *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY*. ISSN 0223-5234, 2017, vol. 134, no., pp. 43-51., Registrované v: WOS
2. [1.1] MUNNEKE, Stefan - HILL, Jaime C. - TIMMER, Mattie S. M. - STOCKER, Bridget L. Synthesis and Hydrolytic Stability of N- and O-Methyloxyamine Linkers for the Synthesis of Glycoconjugates. In *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY*. ISSN 1434-193X, 2017, vol., no. 25, pp. 3722-3728., Registrované v: WOS
3. [1.1] PIFFERI, Carlo - DASKHAN, Gour Chand - FIORE, Michele - SHIAO, Tze Chieh - ROY, Rene - RENAUDET, Olivier. Aminoxyated Carbohydrates: Synthesis and Applications. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 15, pp. 9839-9873., Registrované v: WOS
4. [1.1] VILLADSEN, Klaus - MARTOS-MALDONADO, Manuel C. - JENSEN, Knud J. - THYGESEN, Mikkel B. Chemoselective Reactions for the Synthesis of Glycoconjugates from Unprotected Carbohydrates. In *CHEMBIOCHEM*. ISSN 1439-4227, 2017, vol. 18, no. 7, pp. 574-612., Registrované v: WOS

ADCA560

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. (3.673 - IF2015). (2016 - Current Contents). ISSN 0263-4929.

Citácie:

1. [1.2] GAUTIER, Pierre - BOSSE, Valérie - CHERNEVA, Zlatka - DIDIER, Amélie - GERDJKOV, Ianko - TIEPOLO, Massimo. Polycyclic alpine orogeny in the Rhodope metamorphic complex: The record in migmatites from the Nestos shear zone (N. Greece). In *Bulletin de la Societe Geologique de France*. ISSN 00379409, 2017-01-01, 188, 6, pp., Registrované v: SCOPUS
- ADCA561 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.
Citácie:
1. [1.1] MARTIN ZELAYA, Victor - VIRGINIA FERNANDEZ, Paula - SUSANA VEGA, Andrea - IDA MANTESE, Anita - AILEN FEDERICO, Ana - CIANCIA, Marina. Glucuronoarabinoxylans as major cell walls polymers from young shoots of the woody bamboo *Phyllostachys aurea*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 240-249., Registrované v: WOS
- ADCA562 PETRUŠ, Ladislav - PETRUŠOVÁ, Mária - PHAM-HUU, D.P. - LATTOVÁ, Erika - PRIBULOVÁ, Božena - TURJAN, Jozef. Conversions of nitroalkyl to carbonyl groups in carbohydrates. In *Monatshefte für Chemie*, 2002, vol. 133, p. 383-392. ISSN 0026-9247.
Citácie:
1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS
- ADCA563 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. (1.669 - IF2005). (2006 - Current Contents). ISSN 0008-6215.
Citácie:
1. [1.2] Goekjian, P., Haudrechy, A., Menhour, B., & Coiffier, C. (2017). In *C-Furanosides: Synthesis and Stereochemistry*. (Elsevier, pp. 1-771), Registrované v: SCOPUS
- ADCA564 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. (2.813 - IF2010). (2011 - Current Contents). ISSN 0887-3585.
Citácie:
1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. Structural insight into a CE15 esterase from the marine bacterial metagenome. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
4. [1.1] Group Author(s): Uniprot Consortium. G0RV93. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/G0RV93>, Registrované v: WOS
5. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
6. [1.1] SINGH, Mrityunjay K. - SHIVAKUMARASWAMY, Santosh - GUMMADI, Sathyanarayana N. - MANOJ, Narayanan. Role of an N-terminal extension in stability and catalytic activity of a hyperthermostable alpha/beta hydrolase fold esterase. In *PROTEIN ENGINEERING DESIGN & SELECTION*. ISSN 1741-0126, 2017, vol. 30, no. 8, pp. 559-570., Registrované v: WOS
- ADCA565 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. (1.629 - IF2012). (2013 - Current Contents). ISSN 0026-9247.
Citácie:
1. [1.2] DING, Zhao Xia - YUAN, Chen - MAI, Zheng Jun - LIU, Jie - LONG, Tian Yu. Microwave

- Advanced Oxidation Technologies Using Oxidizer Persulfate and their Application in Sterilization. In Gao Xiao Hua Xue Gong Cheng Xue Bao/Journal of Chemical Engineering of Chinese Universities. ISSN 10039015, 2017-10-01, 31, 5, pp. 1225-1231., Registrované v: SCOPUS
- ADCA566 POLÁKOVÁ, Monika - BELÁŇOVÁ, Martina - MIKUŠOVÁ, Katarína - LATTOVÁ, Erika - PERREAULT, Hélène. Synthesis of 1,2,3-tiazolo-linked octyl (1-6)-alfa-D-oligomannosides and their evaluation in mycobacterial mannosyltransferase assay. In Bioconjugate chemistry, 2011, vol. 22, p. 289-298. (5.002 - IF2010). (2011 - Current Contents). ISSN 1043-1802.
- Citácie:
- [1.1] COLLIER, Alice - WAGNER, Gerd K. Base-modified GDP-mannose derivatives and their substrate activity towards a yeast mannosyltransferase. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 452, no., pp. 91-96., Registrované v: WOS
 - [1.1] KOPECNA, Monika - MACHACEK, Miloslav - PRCHALOVA, Eva - STEPANEK, Petr - DRASAR, Pavel - KOTORA, Martin - VAVROVA, Katerina. Dodecyl Amino Glucoside Enhances Transdermal and Topical Drug Delivery via Reversible Interaction with Skin Barrier Lipids. In PHARMACEUTICAL RESEARCH. ISSN 0724-8741, 2017, vol. 34, no. 3, pp. 640-653., Registrované v: WOS
 - [1.1] ZHANG, Shu - XU, Zhi - GAO, Chuan - REN, Qing-Cheng - CHANG, Le - LV, Zao-Sheng - FENG, Lian-Shun. Triazole derivatives and their anti-tubercular activity. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 138, no., pp. 501-513., Registrované v: WOS
- ADCA567 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. (2.025 - IF2009). (2010 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] LEGENTIL, Laurent - CABEZAS, Yari - TASSEAU, Olivier - TELLIER, Charles - DALIGAULT, Franck - FERRIERES, Vincent. Regioselective Galactofuranosylation for the Synthesis of Disaccharide Patterns Found in Pathogenic Microorganisms. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 14, pp. 7114-7122., Registrované v: WOS
 - [1.1] MANHAS, Sanjay - TAYLOR, Mark S. Boronic Acids as Phase-Transfer Reagents for Fischer Glycosidations in Low-Polarity Solvents. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2017, vol. 82, no. 21, pp. 11406-11417., Registrované v: WOS
- ADCA568 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.
- Citácie:
- [1.1] BAI, Chaolumen - BUDRAGCHAA, Davaanyam - YOSHIDA, Takashi. Ring-opening polymerization of new 3-O-branched 1, 6-anhydro glucopyranose di- and trisaccharide monomers. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 446, no., pp. 52-60., Registrované v: WOS
 - [1.1] KARELIN, Alexander A. - TSVETKOV, Yury E. - NIFANTIEV, Nikolay E. Synthesis of oligosaccharides related to cell wall polysaccharides of the fungi Candida and Aspergillus. In RUSSIAN CHEMICAL REVIEWS. ISSN 0036-021X, 2017, vol. 86, no. 11, pp. 1073-1126., Registrované v: WOS
 - [1.1] LIU, Bo - LIU, Xue - ZHANG, Jing-Ren - LIU, Gang. A Natural Lipotrisaccharide and Its Derivatives Selectively Lyse Streptococcus pneumoniae via Interaction with Cell Membrane. In ACS INFECTIOUS DISEASES. ISSN 2373-8227, 2017, vol. 3, no. 6, pp. 438-453., Registrované v: WOS
 - [1.1] MENDE, Marco - NIEGER, Martin - BRAESE, Stefan. Chemical Synthesis of Modified Hyaluronic Acid Disaccharides. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 50, pp. 12283-12296., Registrované v: WOS
 - [1.1] VAN DER VORM, S. - HANSEN, T. - OVERKLEEF, H. S. - VAN DER MAREL, G. A. - CODEE, J. D. C. The influence of acceptor nucleophilicity on the glycosylation reaction mechanism. In CHEMICAL SCIENCE. ISSN 2041-6520, 2017, vol. 8, no. 3, pp. 1867-1875., Registrované v: WOS
- ADCA569 POLÁKOVÁ, Monika - STANTON, Rhiannon - WILSON, Iain B.H. - HOLKOVÁ, Ivana - ŠESTÁK, Sergej - MACHOVÁ, Eva - JANDOVÁ, Zuzana - KÓŇA, Juraj. „Click chemistry” synthesis of 1-(α -D-mannopyranosyl)-1,2,3-triazoles for inhibition of α -mannosidases. In Carbohydrate Research, 2015, vol.406, p. 34-40. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215.
- Citácie:
- [1.1] AY, Kadir - ISPARTALOGLU, Beyza - HALAY, Erkan - AY, Emriye - YASA, Ihsan -

- KARAYILDIRIM, Tamer. Synthesis and antimicrobial evaluation of sulfanilamide- and carbohydrate-derived 1,4-disubstituted-1,2,3-triazoles via click chemistry. In MEDICINAL CHEMISTRY RESEARCH. ISSN 1054-2523, 2017, vol. 26, no. 7, pp. 1497-1505., Registrované v: WOS*
- ADCA570 PRISENŽŇÁKOVÁ, Lubica - NOSÁĽOVÁ, Gabriela - HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. The pharmacological activity of wheat bran polysaccharides. In Fitoterapia, 2010, vol. 81, p. 1037-1044.
Citácie:
1. [1.1] *GUO, Xiao - JIN, Yuhong - DU, Jinhua. Extraction and purification of an endo-1,4-beta-xylanase from wheat malt. In JOURNAL OF CEREAL SCIENCE. ISSN 0733-5210, 2017, vol. 74, no., pp. 218-223., Registrované v: WOS*
- ADCA571 PROKSA, Bohumil - UHRÍN, Dušan - ADAMCOVÁ, J. - FUSKA, J. Vermixocins A and B, two novel metabolites from *Penicillium vermiculatum*. In Journal of Antibiotics, 1992, vol. 45, p. 1268-1272. ISSN 0021-8820.
Citácie:
1. [1.1] *KOUL, Mytre - SINGH, Shashank. Penicillium spp.: prolific producer for harnessing cytotoxic secondary metabolites. In ANTI-CANCER DRUGS. ISSN 0959-4973, 2017, vol. 28, no. 1, pp. 11-30., Registrované v: WOS*
- ADCA572 PROKSA, Bohumil - GROSSMANN, E. High-performance liquid chromatographic determination of alkaloids from *Vinca Minor* L. In Phytochemistry analysis, 1991, vol. 2, p. 74-76.
Citácie:
1. [1.1] *ABOUZEID, Sara - BEUTLING, Ulrike - SURUP, Frank - BAR, Fatma M. Abdel - AMER, Mohamed M. - BADRIA, Farid A. - YAHYAZADEH, Mandi - BROENSTRUP, Mark - SELMAR, Dirk. Treatment of Vinca minor Leaves with Methyl Jasmonate Extensively Alters the Pattern and Composition of Indole Alkaloids. In JOURNAL OF NATURAL PRODUCTS. ISSN 0163-3864, 2017, vol. 80, no. 11, pp. 2905-2909., Registrované v: WOS*
2. [1.2] *SELMAR, Dirk - KLEINWÄCHTER, Maik - ABOUZEID, Sara - YAHYAZADEH, Mahdi - NOWAK, Melanie. The impact of drought stress on the quality of spice and medicinal plants. In Medicinal Plants and Environmental Challenges, 2017-10-31, pp. 159-175., Registrované v: SCOPUS*
- ADCA573 PROKSA, Bohumil - UHRÍN, Dušan - ŠTURDÍKOVÁ, M. - FUSKA, J. 1-acetyl-beta-carboline, a new metabolite of *Streptomyces kasugaensis*. In Acta Biotechnologica, 1990, vol. 10, p.337-340.
Citácie:
1. [1.1] *ALBERDI-CEDENO, Jon - IBARGOITIA, Maria L. - GUILLEN, Maria D. Bioactive compounds detected for the first time in corn oil: Cyclic dipeptides and other nitrogenated compounds. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, 2017, vol. 62, no., pp. 197-204., Registrované v: WOS*
2. [1.1] *BROBERG, Anders - BJERKETORP, Joakim - ANDERSSON, Pierre - SAHLBERG, Christer - LEVENFORS, Jolanta J. Labradorins with Antibacterial Activity Produced by Pseudomonas sp. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS*
- ADCA574 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, Welwardová - VORLOP, K.D. Comparison of different technologies for alginate beads production. In Chemical papers, 2008, vol. 62, p. 364-374. (0.367 - IF2007). (2008 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.1] *CALIJA, Bojan - CEKIC, Nebojsa - MILIC, Jela. Influence of Polycation Functional Properties on Polyanion Micro/Nanoparticles for NSAIDs Reinforced Via Polyelectrolyte Complexation: Alginate-Chitosan Case Study. In MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS, 2017, vol., no., pp. 133-160., Registrované v: WOS*
2. [1.1] *CHING, Su Hung - BANSAL, Nidhi - BHANDARI, Bhesh. Alginate gel particles-A review of production techniques and physical properties. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 6, pp. 1133-1152., Registrované v: WOS*
3. [1.1] *CHOLEWINSKI, Aleksander - YANG, Fut K. - ZHAO, Boxin. Underwater Contact Behavior of Alginate and Catechol-Conjugated Alginate Hydrogel Beads. In LANGMUIR. ISSN 0743-7463, 2017, vol. 33, no. 34, pp. 8353-8361., Registrované v: WOS*
4. [1.1] *DOMEJEAN, Hugo - SAINT PIERRE, Mathieu de la Motte - FUNFAK, Anette - ATRUX-TALLAU, Nicolas - ALESSANDRI, Kevin - NASSOY, Pierre - BIBETTE, Jerome - BREMOND, Nicolas. Controlled production of sub-millimeter liquid core hydrogel capsules for parallelized 3D cell culture. In LAB ON A CHIP. ISSN 1473-0197, 2017, vol. 17, no. 1, pp. 110-119., Registrované*

v: WOS

5. [1.1] HUMBERT, Pascal - PRZYKLENK, Michael - VEMMER, Marina - SCHUMANN, Mario - VIDAL, Stefan - PATEL, Anant V. Technical scale production of encapsulated *Saccharomyces cerevisiae* and *Metarhizium brunneum* attractive to wireworms. In *BIOCONTROL SCIENCE AND TECHNOLOGY*. ISSN 0958-3157, 2017, vol. 27, no. 9, pp. 1049-1070., Registrované v: WOS

6. [1.1] KRAJISNIK, Danina - CALIJA, Bojan - CEKIC, Nebojsa. Polymeric Microparticles and Inorganic Micro/Nanoparticulate Drug Carriers: An Overview and Pharmaceutical Application. In *MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS*, 2017, vol., no., pp. 31-67., Registrované v: WOS

7. [1.1] MARRA, Francesco - DE VIVO, Angela - SARGHINI, Fabrizio. Virtualization of fluid-dynamics in micro-air assisted extruders for food microfluidic based encapsulation. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2017, vol. 213, no., pp. 89-98., Registrované v: WOS

8. [1.1] MILIC, Jela - CALIJA, Bojan - DORDEVIC, Sanela M. Diversity and Functionality of Excipients for Micro/Nanosized Drug Carriers. In *MICROSIZED AND NANOSIZED CARRIERS FOR NONSTEROIDAL ANTI-INFLAMMATORY DRUGS: FORMULATION CHALLENGES AND POTENTIAL BENEFITS*, 2017, vol., no., pp. 95-132., Registrované v: WOS

9. [1.1] NEMETHOVA, Veronika - LACIK, Igor - RAZGA, Filip. Vibration technology for cell encapsulation: viscosity as the Achilles heel. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 9, pp. 1563-1567., Registrované v: WOS

10. [1.1] PAULO, Bruna Barbon - RAMOS, Fernanda de Melo - PRATA, Ana Silvia. An investigation of operational parameters of jet cutting method on the size of Ca-alginate beads. In *JOURNAL OF FOOD PROCESS ENGINEERING*. ISSN 0145-8876, 2017, vol. 40, no. 6, pp., Registrované v: WOS

11. [1.1] WU, Qionglin - ZHANG, Tao - XUE, Yong - XUE, Changhu - WANG, Yuming. Preparation of alginate core shell beads with different M/G ratios to improve the stability of fish oil. In *LWT-FOOD SCIENCE AND TECHNOLOGY*. ISSN 0023-6438, 2017, vol. 80, no., pp. 304-310., Registrované v: WOS

12. [1.2] KOBAYASHI, K. - OKA, T. - KURIYAMA, K. - IWATA, H. - AMEMIYA, H. Bioartificial pancreas: Relationship between the concentration of agarose and the xenograft survival of agarose-microencapsulated islets. In *Japanese Journal of Artificial Organs*. ISSN 03000818, 1993-01-01, 22, 1, pp. 182-185., Registrované v: SCOPUS

13. [1.2] Microencapsulation of probiotics. In *Encapsulation and Controlled Release Technologies in Food Systems: Second Edition*, 2016-03-11, pp. 97-128., Registrované v: SCOPUS

14. [1.2] TIAN, Wenjing - ZHU, Yingdan - YUE, Linfang - ZHANG, Heping - WANG, Junguo. Research status on microcapsulation technology of probiotics. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2016-08-30, 16, 8, pp. 186-194., Registrované v: SCOPUS

15. [1.2] ČUJIĆ, Nada - TRIFKOVIĆ, Kata - BUGARSKI, Branko - IBRIĆ, Svetlana - PLJEVLJAKUŠIĆ, Dejan - ŠAVIKIN, Katarina. Chokeberry (*Aronia melanocarpa* L.) extract loaded in alginate and alginate/inulin system. In *Industrial Crops and Products*. ISSN 09266690, 2016-08-01, 86, pp. 120-131., Registrované v: SCOPUS

ADCA575 PŘIBYLOVÁ, L. - FARKAŠ, Vladimír - SLANINOVÁ, I. - DE MONTIGNY, J. - SYCHROVÁ, H. Differences in osmotolerant and cell-wall properties of two *Zygosaccharomyces rouxii* strains. In *Folia microbiologica*, 2007, vol. 52, p. 241-245. (0.963 - IF2006). (2007 - Current Contents). ISSN 0015-5632.

Citácie:

1. [1.2] SHARMA, Akshya - SHARMA, Sukesh Chander. Physiological Basis for the Tolerance of Yeast *Zygosaccharomyces bisporus* to Salt Stress. In *HAYATI Journal of Biosciences*. ISSN 19783019, 2017-01-01, 24, 4, pp. 176-181., Registrované v: SCOPUS

ADCA576 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. (2008 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] RODRIGUES, Alexandre Gomes. Endo-beta-1,4-xylanase: An Overview of Recent Developments. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 125-149., Registrované v: WOS

ADCA577 PUCHART, Vladimír. Glycoside phosphorylases: Structure, catalytic properties and biotechnological potential. In *Biotechnology Advances*, 2015, vol. 33, p. 261-276. (9.015 - IF2014). (2015 - Current Contents). ISSN 0734-9750.

Citácie:

1. [1.1] BOLIVAR, Juan M. - LULEY-GOEDL, Christiane - LEITNER, Ernestine - SAWANGWAN, Thornthan - NIDETZKY, Bernd. Production of glucosyl glycerol by immobilized sucrose phosphorylase: Options for enzyme fixation on a solid support and application in microscale flow format. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 257, no., pp. 131-138., Registrované v: WOS
 2. [1.1] FRANCEUS, Jorick - PINEL, Denise - DESMET, Tom. Glucosylglycerate Phosphorylase, an Enzyme with Novel Specificity Involved in Compatible Solute Metabolism. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2017, vol. 83, no. 19, pp., Registrované v: WOS
 3. [1.1] FUSHINOBU, Shinya. Crystal Structures of Carbohydrate-active Enzymes with Potential for Practical Oligosaccharide Synthesis. In *INTERNATIONAL JOURNAL OF MICROGRAVITY SCIENCE AND APPLICATION*. ISSN 0915-3616, 2017, vol. 34, no. 1, pp., Registrované v: WOS
 4. [1.1] KADOKAWA, Jun-ichi. alpha-Glucan Phosphorylase: A Useful Catalyst for Precision Enzymatic Synthesis of Oligo- and Polysaccharides. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2017, vol. 21, no. 13, pp. 1192-1204., Registrované v: WOS
 5. [1.1] PERGOLIZZI, Giulia - KUHAUDOMLARP, Sakonwan - KALITA, Eeshan - FIELD, Robert A. Glycan Phosphorylases in Multi-Enzyme Synthetic Processes. In *PROTEIN AND PEPTIDE LETTERS*. ISSN 0929-8665, 2017, vol. 24, no. 8, pp. 696-709., Registrované v: WOS
 6. [1.1] SHOUJI, Takuya - YAMAMOTO, Kazuya - KADOKAWA, Jun-ichi. Chemoenzymatic synthesis and self-assembling gelation behavior of amylose-grafted poly(gamma-glutamic acid). In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 97, no., pp. 99-105., Registrované v: WOS
 7. [1.1] VERHAEGHE, Tom - DE WINTER, Karel - DESMET, Tom. Microbial Enzymes for Glycoside Synthesis: Development of Sucrose Phosphorylase as a Test Case. In *BIOTECHNOLOGY OF MICROBIAL ENZYMES: PRODUCTION, BIOCATALYSIS AND INDUSTRIAL APPLICATIONS*, 2017, vol., no., pp. 405-431., Registrované v: WOS
 8. [1.1] ZHONG, Chao - WEI, Ping - ZHANG, Yi-Heng Percival. A kinetic model of one-pot rapid biotransformation of cellobiose from sucrose catalyzed by three thermophilic enzymes. In *CHEMICAL ENGINEERING SCIENCE*. ISSN 0009-2509, 2017, vol. 161, no., pp. 159-166., Registrované v: WOS
 9. [1.2] FEHL, Charlie - JARVIS, Amanda G. - PALM-ESPLING, Maria - DAVIS, Ben - KAMER, Paul C.J. Outperforming nature's catalysts: Designing metalloenzymes for chemical synthesis. In *Modern Developments in Catalysis*, 2017-01-01, pp. 89-122., Registrované v: SCOPUS
 10. [1.2] KADOKAWA, Jun Ichi. Precise preparation of functional polysaccharides nanoparticles by an enzymatic approach. In *Drug Delivery Approaches and Nanosystems: Volume 2: Drug Targeting Aspects of Nanotechnology*, 2017-01-01, pp. 101-124., Registrované v: SCOPUS
- ADCA578 PUCHART, Vladimír - AGGER, Jane W. - BERRIN, Jean-Guy - VÁRNAI, Anikó - WESTERENG, Bjorge - BIELY, Peter. Comparison of fungal carbohydrate esterases of family CE16 on artificial and natural substrates. In *Journal of Biotechnology*, 2016, vol. 233, p.228-236. (2.667 - IF2015). (2016 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS

- ADCA579 PUCHART, Vladimír - BERRIN, Jean-Guy - HAON, Mireille - BIELY, Peter. A unique CE16 acetyl esterase from *Podospora anserina* active on polymeric xylan. In *Applied Microbiology and Biotechnology*, 2015, vol. 99, p. 10515-10526. (3.337 - IF2014). (2015 - Current Contents). ISSN 0175-7598.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
2. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
3. [1.1] NAGAO, Tatsuhiko - KUMABE, Ayako - KOMATSU, Fumika - YAGI, Hisashi - SUZUKI, Hirokazu - OHSHIRO, Takashi. Gene identification and characterization of fucoidan deacetylase for potential application to fucoidan degradation and diversification. In *JOURNAL OF*

- BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2017, vol. 124, no. 3, pp. 277-282., Registrované v: WOS*
4. [1.2] KUMAR, Santhosh - ARUMUGAM, Nanthakumar - PERMAUL, Kugenthiren - SINGH, Suren. Thermostable enzymes and their industrial applications. In *Microbial Biotechnology: An Interdisciplinary Approach, 2016-12-01, pp. 115-162., Registrované v: SCOPUS*
- ADCA580 PUCHART, Vladimír - BIELY, Peter. Glycosylation of internal sugar residues of oligosaccharides catalyzed by α -galactosidase from *Aspergillus fumigatus*. In *Biochimica et Biophysica Acta : general subjects, 2005, vol. 1726, p. 206-216. (3.369 - IF2004). (2005 - Current Contents, SCOPUS). ISSN 0304-4165.*
- Citácie:
1. [1.1] MASTIHUBA, Vladimir - MASTIHUBOVA, Maria - BELAK, Miroslav - DUDIKOVA, Jana - POTOCKA, Elena Karnisova - PETRUS, Ladislav. Preparation of α -galactooligosaccharides by cell walls from *Cryptococcus laurentii* using a novel α -galactosyl donor. In *TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS*
- ADCA581 PUCHART, Vladimír - KATAPODIS, P. - BIELY, Peter - KREMnický, Ľubomír - CHRISTAKOPOULOS, P. - VRŠANSKÁ, Mária - KEKOS, D. - MACRIS, B.J. - BHAT, M.K. Production of xylanases, mannanases, and pectinases by thermophilic fungus *Thermomyces lanuginosus*. In *Enzyme and Microbial Technology, 1999, vol. 24, p. 355-361. ISSN 0141-0229.*
- Citácie:
1. [1.1] SIKANDAR, Shomaila - UJOR, Victor C. - EZEJI, Thaddeus C. - ROSSINGTON, Jesse L. - MICHEL, Frederick C. - MCMAHAN, Colleen M. - ALI, Naeem - CORNISH, Katrina. *Thermomyces lanuginosus* STm: A source of thermostable hydrolytic enzymes for novel application in extraction of high-quality natural rubber from *Taraxacum kok-saghyz* (Rubber dandelion). In *INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 103, no., pp. 161-168., Registrované v: WOS*
2. [1.2] RANA, Vandana - RANA, Diwakar. Role of microorganisms in lignocellulosic biodegradation. In *SpringerBriefs in Applied Sciences and Technology. ISSN 2191530X, 2017-01-01, 9783319473789, pp. 19-67., Registrované v: SCOPUS*
- ADCA582 PUCHART, Vladimír - VRŠANSKÁ, Mária - BHAT, M. - BIELY, Peter. Purification and characterization of α -galactosidase from a thermophilic fungus *Thermomyces lanuginosus*. In *Biochimica et Biophysica Acta, 2000, vol. 1524, p. 27-37. ISSN 0006-3002.*
- Citácie:
1. [1.1] AL LOMAN, Abdullah - JU, Lu-Kwang. Enzyme-based processing of soybean carbohydrate: Recent developments and future prospects. In *ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 106, no., pp. 35-47., Registrované v: WOS*
2. [1.1] ANISHA, G. S. α -Galactosidases. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS, 2017, vol., no., pp. 369-394., Registrované v: WOS*
3. [1.1] HU, Yujing - TIAN, Guoting - ZHAO, Liyan - WANG, Hexiang - TZI BUN NG. A protease-resistant α -galactosidase from *Pleurotus djambor* with broad pH stability and good hydrolytic activity toward raffinose family oligosaccharides. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 94, no., pp. 122-130., Registrované v: WOS*
- ADCA583 PUCHART, Vladimír - VRŠANSKÁ, Mária - SVOBODA, P. - POHL, J. - OGEL, Z.B. - BIELY, Peter. Purification and characterization of two forms of endo- β -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. (2.557 - IF2003). (2004 - Current Contents, SCOPUS). ISSN 0304-4165.*
- Citácie:
1. [1.1] GERMEC, Mustafa - YATMAZ, Ercan - KARAHALIL, Ercan - TURHAN, Irfan. Effect of different fermentation strategies on β -mannanase production in fed-batch bioreactor system. In *3 BIOTECH. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS*
2. [1.1] Group Author(s): Uniprot Consortium. Q4WBS1. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q4WBS1>, Registrované v: WOS
3. [1.1] LADEVEZE, Simon - LAVILLE, Elisabeth - DESPRES, Jordane - MOSONI, Pascale - POTOCKI-VERONESE, Gabrielle. Mannoside recognition and degradation by bacteria. In *BIOLOGICAL REVIEWS. ISSN 1464-7931, 2017, vol. 92, no. 4, pp. 1969-1990., Registrované v: WOS*
4. [1.1] LUO, Zhangcai - MIAO, Jing - LI, Guoying - DU, Yao - YU, Xiaobin. A Recombinant Highly Thermostable β -Mannanase (ReTMan26) from Thermophilic *Bacillus subtilis* (TBS2) Expressed in *Pichia pastoris* and Its pH and Temperature Stability. In *APPLIED BIOCHEMISTRY*

- AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 4, pp. 1259-1275., Registrované v: WOS
5. [1.1] REGMI, Sudip - YOO, Hah Y. - CHOI, Yun H. - CHOI, Yoon S. - YOO, Jin C. - KIM, Seung W. Prospects for Bio-Industrial Application of an Extremely Alkaline Mannanase From *Bacillus subtilis* subsp *inaquosorum* CSB31. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2017, vol. 12, no. 11, pp., Registrované v: WOS
6. [1.1] SONG, Yafeng - FU, Gang - DONG, Huina - LI, Jianjun - DU, Yuguang - ZHANG, Dawei. High-Efficiency Secretion of beta-Mannanase in *Bacillus subtilis* through Protein Synthesis and Secretion Optimization. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2017, vol. 65, no. 12, pp. 2540-2548., Registrované v: WOS
7. [1.1] SONI, Hemant - RAWAT, Hemant Kumar - AHIRWAR, Saroj - KANGO, Naveen. Screening, statistical optimized production, and application of beta-mannanase from some newly isolated fungi. In ENGINEERING IN LIFE SCIENCES. ISSN 1618-0240, 2017, vol. 17, no. 4, pp. 392-401., Registrované v: WOS
8. [1.1] SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Production, properties, and applications of endo-beta-mannanases. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 1, pp. 1-19., Registrované v: WOS
9. [1.2] AHIRWAR, Saroj - SONI, Hemant - PRAJAPATI, Bhanu Pratap - KANGO, Naveen. Isolation and screening of thermophilic and thermotolerant fungi for production of hemicellulases from heated environments. In Mycology. ISSN 21501203, 2017-07-03, 8, 3, pp. 125-134., Registrované v: SCOPUS
- ADCA584 RADOŠINSKÁ, Jana - MÉZEŠOVÁ, Lucia - OKRUHLICOVÁ, Ľudmila - FRIMMEL, Karel - BREIEROVÁ, Emília - BARTEKOVÁ, Monika - VRBJAR, Norbert. Effect of yeast biomass with high content of carotenoids on erythrocyte deformability, NO production and Na,K-ATPase activity in healthy and LPS treated rats. In Clinical Hemorheology and Microcirculation, 2016, vol. 64, no. 2, pp. 125-134. (1.815 - IF2015). (2016 - Current Contents). ISSN 1386-0291.(VEGA č. 1/0032/14 : Matrix metaloproteinázy, microRNAs a deformabilita erytrocytov - nové diagnostické a prognostické biomarkery srdcového zlyhávania. VEGA č. 2/0022/16 : Ochrana mechanizmov modulujúcich permeabilitu endotelu v srdci. VEGA č. 2/0141/13 : Vlastnosti Na,K-ATPázy, jedného z kľúčových systémov pre udržiavanie koncentrácie sodíka v organizme, v podmienkach civilizačných ochorení, ako sú hypertenzia, diabetes mellitus a hypertriglyceridémia).
- Citácie:
1. [4.1] KRAJČÍR, J. - KUČEROVÁ, K. - LACEKOVÁ, J. - KALNOVIČOVÁ, T. - PÚZSEROVÁ, A. - TÓTHOVÁ, L. - DRÁBEK, R.: Vplyv podávania vitamínu C na vybrané charakteristiky ľudských erytrocytov. In: Zborník vedeckých prác. Bratislava : Univerzita Komenského, 2017, s. 127-130
- ADCA585 RANTA, Kaarina - NIEMINEN, Kals - 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. (2.546 - IF2011). (2012 - Current Contents). ISSN 1556-6811.
- Citácie:
1. [1.1] NESS, Traci - ABDALLAH, Mahmud - ADAMS, Jaime - ALVARADO, Claudia - GUNN, Edwin - HOUSE, Brittany - LAMB, John - MACGUIRE, Jack - NORRIS, Emily - ROBINSON, Rebekah - SAPP, Morgan - SHARMA, Jill - GARNER, Ronald. *Candida albicans*-derived mannoproteins activate NF-kappa B in reporter cells expressing TLR4, MD2 and CD14. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
2. [1.1] ZHANG, Gao-Lan - YANG, Lin - ZHU, Jingjing - WEI, Mengman - YAN, Wanjun - XIONG, De-Cai - YE, Xin-Shan. Synthesis and Antigenic Evaluation of Oligosaccharide Mimics of Vi Antigen from *Salmonella typhi*. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 44, pp. 10670-10677., Registrované v: WOS
- ADCA586 RAPP, G. - MUCHA, Ján - EINSPANIER, R. - SCHEIT, K.H. Cloning and sequence analysis of a cDNA from human ovarian granulosa cells encoding the C-terminal part of human elongation factor 2. In Biological chemistry Hoppe-Seyler : Journal of Physiological Chemistry, 1988, vol. 369, p. 247-250. ISSN 1431-6730.
- Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. P13639. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P13639>, Registrované v: WOS
- ADCA587 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.
- Citácie:
1. [1.1] Bennun, A. (2017). In *The Regenerative Processes Involving the cAMP Unzipping of*

- DNA: The Synthesis of Proteins Integrating Plasticity and Longevity* (Nova Science Publishers, pp. 1-324), Registrované v: SCOPUS
2. [1.1] Group Author(s): Uniprot Consortium. P13639. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P13639>, Registrované v: WOS
- ADCA588 RAY, B. - BANDYOPADHYAY, S.S. - CAPEK, Peter - KOPECKÝ, Jaromír - HINDÁK, František - LUKAVSKÝ, Jiří. Extracellular glycoconjugates produced by cyanobacterium *Wolleea saccata*. In International Journal of Biological Macromolecules, 2011, vol. 48, no. 4, p. 553-557. (2.502 - IF2010). (2011 - Current Contents). ISSN 0141-8130. (Vega č. 2/0310. VEGA 2/0017/11. APVV 0030-07).
- Citácie:
1. [1.1] HUGHES, R.A. - ZHANG, Y.L. - ZHANG, R. - WILLIAMS, P.G. - LINDSEY, J.S. - MILLER, E.S. *Genome Sequence and Composition of a Tolyporphin-Producing Cyanobacterium-Microbial Community*. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, OCT 2017, vol. 83, no. 19., Registrované v: WOS
- ADCA589 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. (1.749 - IF2013). (2014 - Current Contents). ISSN 0266-8254.
- Citácie:
1. [1.1] KADISCH, Marvin - WILLRODT, Christian - HILLEN, Michael - BUEHLER, Bruno - SCHMID, Andreas. Maximizing the stability of metabolic engineering-derived whole-cell biocatalysts. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2017, vol. 12, no. 8, pp., Registrované v: WOS
- ADCA590 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. (2.699 - IF2010). (2011 - Current Contents). ISSN 0098-8472.
- Citácie:
1. [1.1] BLOEM, Elke - HANEKLAUS, Silvia - HAENSCH, Robert - SCHNUG, Ewald. EDTA application on agricultural soils affects microelement uptake of plants. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, 2017, vol. 577, no., pp. 166-173., Registrované v: WOS
2. [1.1] GU, Dongxiang - ZHEN, Fengxian - HANNAWAY, David B. - ZHU, Yan - LIU, Leilei - CAO, Weixing - TANG, Liang. Quantitative Classification of Rice (*Oryza sativa* L.) Root Length and Diameter Using Image Analysis. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 1, pp., Registrované v: WOS
3. [1.1] LI, Hui - LUO, Na - LI, Yan Wen - CAI, Quan Ying - LI, Hui Yuan - MO, Ce Hui - WONG, Ming Hung. Cadmium in rice: Transport mechanisms, influencing factors, and minimizing measures. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 224, no., pp. 622-630., Registrované v: WOS
4. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM, Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad - ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (*Zea mays* L.) for phytomanagement of Cd-contaminated soils: a critical review. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS
5. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - MA, Xingmao. Cerium oxide nanoparticles alter the salt stress tolerance of *Brassica napus* L. by modifying the formation of root apoplastic barriers. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, 2017, vol. 229, no., pp. 132-138., Registrované v: WOS
6. [1.1] ROSSI, Lorenzo - ZHANG, Weilan - SCHWAB, Arthur P. - MA, Xingmao. Uptake, Accumulation, and in Planta Distribution of Coexisting Cerium Oxide Nanoparticles and Cadmium in *Glycine max* (L.) Merr. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, 2017, vol. 51, no. 21, pp. 12815-12824., Registrované v: WOS
7. [1.1] TYLOVA, Edita - PECKOVA, Eva - BLASCHEOVA, Zuzana - SOUKUP, Ales. Casparian bands and suberin lamellae in exodermis of lateral roots: an important trait of roots system response to abiotic stress factors. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 120, no. 1, pp. 71-85., Registrované v: WOS
- ADCA591 REMEŠ, Zdeněk - MÍČOVÁ, Júlia - KRIST, Pavel - CHVÁTIL, David - EFFENBERG, Roman - NESLÁDEK, Miloš. N-V-related fluorescence of the monoenergetic high-energy electronirradiated diamond nanoparticles. In Physica Status Solidi A : applications and materials science, 2015, vol. 212, p. 2519-2524. (1.616 - IF2014). (2015 - Current Contents). ISSN 1862-6300.
- Citácie:
1. [1.1] TREUSSART, Francois - VLASOV, Igor I. Photoluminescence of color centers in

- nanodiamonds. In NANODIAMONDS: ADVANCED MATERIAL ANALYSIS, PROPERTIES AND APPLICATIONS, 2017, vol., no., pp. 155-181., Registrované v: WOS*
- ADCA592 REXOVÁ-BENKOVÁ, Ľubomíra. The size of the binding site of an *Aspergillus niger* extracellular endopolygalacturonase. In *European Journal of Biochemistry*, 1973, vol.39, p. 109-115. ISSN 0014-2956.
Citácie:
1. [1.2] *SUDHEEP, N. M. - MARWAL, Avinash - LAKRA, Nita - ANWAR, Khalid - MAHMOOD, Saquib. Fascinating fungal endophytes role and possible beneficial applications: An overview. In Plant-Microbe Interactions in Agro-Ecological Perspectives, 2017-10-25, 1, pp. 275-290., Registrované v: SCOPUS*
- ADCA593 RICE, P.J. - KELLEY, J.L. - KOGAN, Grigorij - ENSLEY, H.E. - KALBFLEISCH, J.H. - BROWDER, I.W. - WILLIAMS, D.I. Human monocyte scavenger receptors are pattern recognition receptors for (1→3)-β-D-glucans. In *Journal of Leukocyte Biology*, 2002, vol. 72, p. 140-146. ISSN 0741-5400.
Citácie:
1. [1.1] *ROUDI, Raheleh - MOHAMMADI, Shahla Roudbar - ROODBARY, Maryam - MOHSENZADEGAN, Monireh. Lung cancer and beta-glucans: review of potential therapeutic applications. In INVESTIGATIONAL NEW DRUGS. ISSN 0167-6997, 2017, vol. 35, no. 4, pp. 509-517., Registrované v: WOS*
2. [1.1] *SURAYOT, Utoomporn - YOU, SangGuan. Structural effects of sulfated polysaccharides from *Codium fragile* on NK cell activation and cytotoxicity. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 98, no., pp. 117-124., Registrované v: WOS*
3. [1.1] *WANG, Qiang - SHENG, Xiaojing - SHI, Aimin - HU, Hui - YANG, Ying - LIU, Li - FEI, Ling - LIU, Hongzhi. beta-Glucans: Relationships between Modification, Conformation and Functional Activities. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 2, pp., Registrované v: WOS*
4. [1.2] *Nie, S., Cui, S. W., & Xie, M. (2017). In Bioactive Polysaccharides. (Elsevier, pp. 1-554), Registrované v: SCOPUS*
- ADCA594 RICHTEROVÁ-KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - ZELKO, Ivan - VIVODOVÁ, Zuzana, Vatehová - LIŠKOVÁ, Desana. How do galactoglucomannan oligosaccharides regulate cell growth in epidermal and cortical tissues of mung bean seedlings? In *Plant Physiology and Biochemistry*, 2012, vol. 57, p. 154-158. (2.838 - IF2011). (2012 - Current Contents). ISSN 0981-9428.
Citácie:
1. [1.1] *WOLF, Sebastian. Plant cell wall signalling and receptor-like kinases. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2017, vol. 474, no., pp. 471-492., Registrované v: WOS*
- ADCA595 RICHTEROVÁ-KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - VIVODOVÁ, 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. (2.928 - IF2015). (2016 - Current Contents). ISSN 0981-9428.
Citácie:
1. [1.1] *WANG, Chuanhong - ZHI, Shuang - LIU, Changying - XU, Fengxiang - ZHAO, Aichun - WANG, Xiling - TANG, Xing - LI, Zhengang - HUANG, Ping - YU, Maode. Isolation and characterization of a novel chalcone synthase gene family from mulberry. In PLANT PHYSIOLOGY AND BIOCHEMISTRY. ISSN 0981-9428, 2017, vol. 115, no., pp. 107-118., Registrované v: WOS*
- ADCA596 RICHTEROVÁ-KUČEROVÁ, Danica - KOLLÁROVÁ, Karin - ZELKO, Ivan - VIVODOVÁ, Zuzana, Vatehová - 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. (2.770 - IF2013). (2014 - Current Contents). ISSN 0176-1617.
Citácie:
1. [1.1] *SRIVASTAVA, Praveen Kumar - KAPOOR, Mukesh. Production, properties, and applications of endo-beta-mannanases. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 1, pp. 1-19., Registrované v: WOS*
2. [1.1] *WISZNIEWSKA, Alina - MUSZYŃSKA, Ewa - HANUS-FAJERSKA, Ewa - SMOLEN, Sylwester - DZIURKA, Micha - DZIURKA, Kinga. Organic amendments enhance Pb tolerance and accumulation during micropropagation of *Daphne jasminea*. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 3, pp. 2421-2432., Registrované v: WOS*
- ADCA597 ROESSL, Ulrich - NAHÁLKA, Jozef - NIDETZKY, Bernd. Carrier-free immobilized enzymes for biocatalysis. In *Biotechnology Letters*, 2010, vol.32, p. 341-350. (1.636 - IF2009). (2010 - Current

Contents). ISSN 0141-5492.

Citácie:

1. [1.1] CHEN, Huayou - CHEN, Zhi - NI, Zhong - TIAN, Rui - ZHANG, Tianxi - JIA, Jinru - CHEN, Keping - YANG, Shengli. Display of *Thermotoga maritima* MSB8 nitrilase on the spore surface of *Bacillus subtilis* using out coat protein CotG as the fusion partner. In *JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC*. ISSN 1381-1177, 2016, vol. 123, no., pp. 73-80., Registrované v: WOS

2. [1.1] QIU, Fang - LI, Feng-Yan - YANG, Qing-Yu. Preparation of Magnetic Immobilized Glucose Oxidase and Bleaching of Cotton Fabrics. In *TEXTILE BIOENGINEERING AND INFORMATICS SYMPOSIUM PROCEEDINGS*, 2017, VOL. 3. ISSN 1942-3438, 2017, vol., no., pp. 829-835., Registrované v: WOS

3. [1.2] TABAÑAG, Ian Dominic F. - TSAI, Shen Long. Biological strategies in nanobiocatalyst assembly. In *Biocatalysis and Nanotechnology*, 2017-01-01, pp. 151-242., Registrované v: SCOPUS

ADCA598 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. (9.344 - IF2009). (2010 - Current Contents). ISSN 0959-440X.

Citácie:

1. [1.1] DE WILDT, William - KOOLJMAN, Huub - FUNKE, Carel - USTUN, Bulent - LEIKA, Afranina - LUNENBURG, Maarten - KASPERSEN, Frans - KELLENBACH, Edwin. Extended Physicochemical Characterization of the Synthetic Anticoagulant Pentasaccharide Fondaparinux Sodium by Quantitative NMR and Single Crystal X-ray Analysis. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 8, pp., Registrované v: WOS

2. [1.1] MIURA, Yoshiko - FUKUDA, Tomohiro - HOSHINO, Yu. Glycoglycan Mimic by Synthetic Polymers. In *ADVANCES IN BIOINSPIRED AND BIOMEDICAL MATERIALS*, VOL 2. ISSN 0097-6156, 2017, vol. 1253, no., pp. 69-77., Registrované v: WOS

3. [1.2] HEISS, Christian - AZADI, Parastoo. Structural analysis of glycosaminoglycans-an indispensable tool for the diagnosis, treatment and prevention of human disease. In *Glycobiology and Human Diseases*, 2016-02-22, pp. 28-64., Registrované v: SCOPUS

4. [1.2] MIURA, Yoshiko - FUKUDA, Tomohiro - SETO, Hirokazu - HOSHINO, Yu. Syntheses and functions of Glycosaminoglycan mimicking polymers. In *Coupling and Decoupling of Diverse Molecular Units in Glycosciences*, 2017-11-20, pp. 213-224., Registrované v: SCOPUS

ADCA599 RUMBOLD, K. - BIELY, Peter - MASTIHUBOVÁ, Mária - GUDELJ, M. - GUBITZ, G. - ROBRA, 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. (3.691 - IF2002). (2003 - Current Contents). ISSN 0099-2240.

Citácie:

1. [1.1] CHI, D. H. - GIAP, V. D. - ANH, L. P. H. - NGHI, D. H. Feruloyl Esterase from *Alternaria tenuissima* that Hydrolyses Lignocellulosic Material to Release Hydroxycinnamic Acids. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 654-660., Registrované v: WOS

2. [1.1] HUNT, Cameron J. - ANTONOPOULOU, Io - TANKSALE, Akshat - ROVA, Ulrika - CHRISTAKOPOULOS, Paul - HARITOS, Victoria S. Insights into substrate binding of ferulic acid esterases by arabinose and methyl hydroxycinnamate esters and molecular docking. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

3. [1.1] KATSIMPOURAS, Constantinos - ANTONOPOULOU, Io - CHRISTAKOPOULOS, Paul - TOPAKAS, Evangelos. Role and Applications of Feruloyl Esterases in Biomass Bioconversion. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 79-123., Registrované v: WOS

ADCA600 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. ISSN 1873-3468.

Citácie:

1. [1.1] JONATHAN, M. C. - DEMARTINI, J. - THANS, S. Van Stigt - HOMMES, R. - KABEL, M. A. Characterisation of non-degraded oligosaccharides in enzymatically hydrolysed and fermented, dilute ammonia-pretreated corn stover for ethanol production. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

2. [1.1] NGUYEN BAO QUOC - NGUYEN NGOC BAO CHAU. The Role of Cell Wall Degrading Enzymes in Pathogenesis of *Magnaporthe oryzae*. In *CURRENT PROTEIN & PEPTIDE SCIENCE*. ISSN 1389-2037, 2017, vol. 18, no. 10, pp. 1019-1034., Registrované v: WOS

3. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. GH115

- alpha-glucuronidase and GH11 xylanase from Paenibacillus sp JDR-2: potential roles in processing glucuronoxylans. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS*
4. [1.1] YAN, Ruoyu - VUONG, Thu V. - WANG, Weijun - MASTER, Emma R. Action of a GH115 alpha-glucuronidase from *Amphibacillus xylanus* at alkaline condition promotes release of 4-O-methylglucopyranosyluronic acid from glucuronoxylan and arabinoglucuronoxylan. In *ENZYME AND MICROBIAL TECHNOLOGY. ISSN 0141-0229, 2017, vol. 104, no., pp. 22-28., Registrované v: WOS*
5. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. The role of α -glucuronidases in the deconstruction of plant cell wall structure. In *Fungal Enzymes, 2016-04-19, pp. 280-293., Registrované v: SCOPUS*
- ADCA601 RYBÁR, Alfonz. Annulated heterocyclo-purines II. Fused six-and more-membered heterocyclo-purinediones, -purinones and -purineimines. In *Advances in Heterocyclic Chemistry, 2005, vol. 88, p. 175-229. ISSN 0065-2725.*
Citácie:
1. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In *FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS*
- ADCA602 SADOVSKAYA, I. - VINOGRADOV, E. - FLAHAUT, S. - KOGAN, Grigorij - JABBOURI, S. Extracellular carbohydrate-containing polymers of a model biofilm-producing strain. *Staphylococcus epidermidis* RP62A. In *Infection and Immunity, 2005, vol. 73, p. 3007-3017. ISSN 0019-9567.*
Citácie:
1. [1.1] COLAGIORGI, Angelo - DI CICCIO, Pierluigi - ZANARDI, Emanuela - GHIDINI, Sergio - IANIERI, Adriana. A Look inside the *Listeria monocytogenes* Biofilms Extracellular Matrix. In *MICROORGANISMS. ISSN 2076-2607, 2016, vol. 4, no. 3, pp., Registrované v: WOS*
2. [1.1] Eroshenko, D.V.; Korobov, V.P. Adhesion of *Staphylococci*: the First Step to Biofilm Formation. In: *Biology Bulletin Reviews Vol. 137 (2017), Issue: 1 Pages: 100-112, Registrované v: WOS*
3. [1.1] KATZENMEYER, Kristy N. - SZOTT, Luisa M. - BRYERS, James D. Artificial opsonin enhances bacterial phagocytosis, oxidative burst and chemokine production by human neutrophils. In *PATHOGENS AND DISEASE. ISSN 2049-632X, 2017, vol. 75, no. 6, pp., Registrované v: WOS*
4. [1.1] NURYASTUTI, Titik - KROM, Bastiaan P. Ica-status of clinical *Staphylococcus epidermidis* strains affects adhesion and aggregation: a thermodynamic analysis. In *ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. ISSN 0003-6072, 2017, vol. 110, no. 11, pp. 1467-1474., Registrované v: WOS*
5. [1.1] SCHLAFER, Sebastian - MEYER, Rikke L. Confocal microscopy imaging of the biofilm matrix. In *JOURNAL OF MICROBIOLOGICAL METHODS. ISSN 0167-7012, 2017, vol. 138, no., pp. 50-59., Registrované v: WOS*
6. [1.2] WEIDENMAIER, Christopher - LEE, Jean C. Structure and function of surface polysaccharides of *Staphylococcus aureus*. In *Current Topics in Microbiology and Immunology. ISSN 0070217X, 2017-01-01, 409, pp. 57-93., Registrované v: SCOPUS*
- ADCA603 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.*
Citácie:
1. [1.1] LI, Xiaoyan - QI, Chen - WEI, Peilian - HUANG, Lei - CAI, Jin - XU, Zhinan. Efficient chemoenzymatic synthesis of uridine 5-diphosphate N-acetylglucosamine and uridine 5-diphosphate N-trifluoroacetyl glucosamine with three recombinant enzymes. In *PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 9, pp. 852-859., Registrované v: WOS*
- ADCA604 SHARECK, F. - BIELY, Peter - MOROSOLI, R. - KLUEPFEL, D. Analysis of DNA flanking the xlnB locus of *Streptomyces lividans* reveals genes encoding acetyl xylan esterase and the RNA component of ribonuclease P. In *Gene, 1995, vol. 153, p. 105-109. (1995 - Current Contents). ISSN 0378-1119.*
Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. P26515. In: *UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/P26515>, Registrované v: WOS*
- ADCA605 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. (2008 - Current Contents). ISSN 0282-0080.*
Citácie:
1. [1.1] RAGUIN, Adelaide - EBENHOEH, Oliver. Design starch: stochastic modeling of starch

ADCA606

granule biogenesis. In BIOCHEMICAL SOCIETY TRANSACTIONS. ISSN 0300-5127, 2017, vol. 45, no., pp. 885-893., Registrované v: WOS

SHLEEV, S. - TKÁČ, Ján - CHRISTENSON, A. - BUZGAS, T. - YAROLOPOV, 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.

Citácie:

1. [1.1] ALTAWHEEL, Khaled - AMARASINGHE, Chami C. - BRULE-BABEL, Anita L. - FERNANDO, W. G. Dilantha. Gene expression analysis of host-pathogen interaction between wheat and *Fusarium graminearum*. In *EUROPEAN JOURNAL OF PLANT PATHOLOGY. ISSN 0929-1873*, 2017, vol. 148, no. 3, pp. 617-629., Registrované v: WOS
2. [1.1] CHAMPAVERT, Joffrey - MARDIANA, Ummi - INNOCENT, Christophe. Bio-catalytic Devices for Energy Production. In *CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728*, 2017, vol. 21, no. 17, pp. 1702-1712., Registrované v: WOS
3. [1.1] CHEN, Jinyao - ZHENG, Hao - KANG, Jian - YANG, Feng - CAO, Ya - XIANG, Ming. An alkaline direct oxidation glucose fuel cell using three-dimensional structural Au/Ni-foam as catalytic electrodes. In *RSC ADVANCES. ISSN 2046-2069*, 2017, vol. 7, no. 5, pp. 3035-3042., Registrované v: WOS
4. [1.1] HE, Yaping - YANG, Xiaohui - HAN, Quan - ZHENG, Jianbin. The Investigation of Electrochemistry Behaviors of Tyrosinase Based on Directly-Electrodeposited Graphene on Choline-Gold Nanoparticles. In *MOLECULES. ISSN 1420-3049*, 2017, vol. 22, no. 7, pp., Registrované v: WOS
5. [1.1] HUSSAIN, Khalil Khadim - MOON, Jong-Min - PARK, Deog-Su - SHIM, Yoon-Bo. Electrochemical Detection of Hemoglobin: A Review. In *ELECTROANALYSIS. ISSN 1040-0397*, 2017, vol. 29, no. 10, pp. 2177-2177., Registrované v: WOS
6. [1.1] JI, Chao - HOU, Jingwei - WANG, Kai - NG, Yun Hau - CHEN, Vicki. Single-Enzyme Biofuel Cells. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851*, 2017, vol. 56, no. 33, pp. 9762-9766., Registrované v: WOS
7. [1.1] LASKOWSKI, Lukasz - LASKOWSKA, Magdalena - FIJALKOWSKI, Krzysztof - PIECH, Henryk - JELONKIEWICZ, Jerzy - JASKULAK, Marta - GNATOWSKI, Adam - DULSKI, Mateusz. New Class of Antimicrobial Agents: SBA-15 Silica Containing Anchored Copper Ions. In *JOURNAL OF NANOMATERIALS. ISSN 1687-4110*, 2017, vol., no., pp., Registrované v: WOS
8. [1.1] MAYURI, Pinapeddavari - SARAVANAN, Natarajan - KUMAR, Annamalai Senthil. A bioinspired copper 2,2-bipyridyl complex immobilized MWCNT modified electrode prepared by a new strategy for elegant electrocatalytic reduction and sensing of hydrogen peroxide. In *ELECTROCHIMICA ACTA. ISSN 0013-4686*, 2017, vol. 240, no., pp. 522-533., Registrované v: WOS
9. [1.1] MILTON, Ross D. - MINTEER, Shelley D. Direct enzymatic bioelectrocatalysis: differentiating between myth and reality. In *JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689*, 2017, vol. 14, no. 131, pp., Registrované v: WOS
10. [1.1] MINTEER, Shelley D. Methods in Biological Fuel Cells. In *SPRINGER HANDBOOK OF ELECTROCHEMICAL ENERGY*, 2017, vol., no., pp. 743-755., Registrované v: WOS
11. [1.1] SABOE, Patrick O. - CONTE, Emelia - FARELL, Megan - BAZAN, Guillermo C. - KUMAR, Manish. Biomimetic and bioinspired approaches for wiring enzymes to electrode interfaces. In *ENERGY & ENVIRONMENTAL SCIENCE. ISSN 1754-5692*, 2017, vol. 10, no. 1, pp. 14-42., Registrované v: WOS
12. [1.1] SAKURADA, Yuki - TAKEDA, Kouta - OHNO, Hiroyuki - NAKAMURA, Nobuhumi. Immobilization of Pyrroloquinoline Quinone-Dependent Alcohol Dehydrogenase with a Polyion Complex and Redox Polymer for a Bioanode. In *CATALYSTS. ISSN 2073-4344*, 2017, vol. 7, no. 10, pp., Registrované v: WOS
13. [1.1] SAOUDI, O. - GHAOUAR, N. - OTHMAN, T. Conductivity measurements of laccase for various concentrations, pH and ionic liquid solutions. In *FLUID PHASE EQUILIBRIA. ISSN 0378-3812*, 2017, vol. 433, no., pp. 184-192., Registrované v: WOS
14. [1.1] STAN, Razvan C. - KROS, Alexander - AKKILIC, Namik - SANGHAMITRA, Nusrat J. M. - APPEL, Jeroen. Direct wiring of the azurin redox center to gold electrodes investigated by protein film voltammetry. In *JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657*, 2017, vol. 787, no., pp. 14-18., Registrované v: WOS
15. [1.1] TAO, Lizhi - SIMONOV, Alexandr N. - ROMANO, Christine A. - BUTTERFIELD, Cristina N. - FEKETE, Monika - TEBO, Bradley M. - BOND, Alan M. - SPICCIA, Leone - MARTIN, Lisandra L. - CASEY, William H. Biogenic Manganese-Oxide Mineralization is Enhanced by an Oxidative Priming Mechanism for the Multi-Copper Oxidase, MnxEFG. In *CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539*, 2017, vol. 23, no. 6, pp. 1346-1352., Registrované v: WOS
16. [1.1] TOMINAGA, Masato - SASAKI, Aiko - TSUSHIDA, Masayuki - TOGAMI, Makoto.

Biosurfactant functionalized single-walled carbon nanotubes to promote laccase bioelectrocatalysis. In NEW JOURNAL OF CHEMISTRY. ISSN 1144-0546, 2017, vol. 41, no. 1, pp. 231-236., Registrované v: WOS

17. [1.1] TORRINHA, Alvaro - MONTENEGRO, Maria C. B. S. M. - ARAUJO, Alberto N. *Implementation of a Simple Nanostructured Bio-electrode with Immobilized Rhus Vernicifera Laccase for Oxygen Sensing Applications. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1566-1572., Registrované v: WOS*

18. [1.1] TORTOLINI, Cristina - SANZO, Gabriella - ANTIOCHIA, Riccarda - MAZZEI, Franco - FAVERO, Gabriele. *Application of a Nanostructured Enzymatic Biosensor Based on Fullerene and Gold Nanoparticles to Polyphenol Detection. In BIOSENSORS AND BIODETECTION: METHODS AND PROTOCOLS, VOL 2: ELECTROCHEMICAL, BIOELECTRONIC, PIEZOELECTRIC, CELLULAR AND MOLECULAR BIOSENSORS, 2ND EDITION. ISSN 1064-3745, 2017, vol. 1572, no., pp. 41-53., Registrované v: WOS*

19. [1.1] VLAMIDIS, Ylea - GUALANDI, Isacco - TONELLI, Domenica. *Amperometric biosensors based on reduced GO and MWCNTs composite for polyphenols detection in fruit juices. In JOURNAL OF ELECTROANALYTICAL CHEMISTRY. ISSN 1572-6657, 2017, vol. 799, no., pp. 285-292., Registrované v: WOS*

20. [1.1] WU, Guozhi - GAO, Yue - ZHAO, Dan - LING, Pinghua - GAO, Feng. *Methanol/Oxygen Enzymatic Biofuel Cell Using Laccase and NAD(+)-Dependent Dehydrogenase Cascades as Biocatalysts on Carbon Nanodots Electrodes. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2017, vol. 9, no. 46, pp. 40978-40986., Registrované v: WOS*

21. [1.1] XU, Jinqiong - SHENG, Qinglin - SHEN, Yu - ZHENG, Jianbin. *Enhanced direct electron transfer of glucose oxidase based on gold nanoprism and its application in biosensing. In COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, 2017, vol. 529, no., pp. 113-118., Registrované v: WOS*

22. [1.1] XU, Zhaorong - ZHAO, Xiaolong - CHEN, Xiaodong - CHEN, Zhaohong - XIA, Zhaofan. *Antimicrobial effect of gallium nitrate against bacteria encountered in burn wound infections. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 82, pp. 52266-52273., Registrované v: WOS*

23. [1.2] CAMPBELL, Alan S. - MALONEY, Andrew J. - DONG, Chenbo - DINU, Cerasela Z. *Immobilization of biocatalysts onto nanosupports: Advantages for green technologies. In Biocatalysis and Nanotechnology, 2017-01-01, pp. 279-322., Registrované v: SCOPUS*

24. [1.2] CHAKRAPANI, K. - SAMPATH, S. *Assemblies of organic and inorganic molecular systems on solid substrates. In Molecular Materials: Preparation, Characterization, and Applications, 2017-01-01, pp. 101-126., Registrované v: SCOPUS*

25. [1.2] FLEXER, Victoria - BRUN, Nicolas. *Fundamentals of enzymatic electrochemical systems. In Functional Electrodes for Enzymatic and Microbial Electrochemical Systems, 2017-01-01, pp. 3-50., Registrované v: SCOPUS*

26. [1.2] KALYANI, Dayanand C. - MADHUPRAKASH, Jogi - HORN, Svein Jarle. *Laccases: Blue copper oxidase in lignocellulose processing. In Microbial Applications, 2017-04-17, 2, pp. 315-336., Registrované v: SCOPUS*

27. [1.2] OTERO, Fernando - DI BARI, Chiara - DE LACEY, Antonio L. - PITA, Marcos. *Immobilization and electrochemical characterization of Coriolopsis Gallica high redox potential laccase. In Laccase: Applications, Investigations and Insights, 2017-01-01, pp. 101-110., Registrované v: SCOPUS*

28. [1.2] TAMAKI, Takanori. *Nanostructured materials for enzymatic biofuel cells. In Biocatalysis and Nanotechnology, 2017-01-01, pp. 595-616., Registrované v: SCOPUS*

ADCA607

SCHENKMAYEROVÁ, Andrea - BERTÓKOVÁ, Anikó, Illéssová - ŠEFČOVIČOVÁ, Jana, Blahutová - ŠTEFUCA, Vladimír - BUČKO, Marek - VIKARTOVSKÁ, Alica, Welwardová - 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. (4.513 - IF2014). (2015 - Current Contents). ISSN 0003-2670.

Citácie:

1. [1.1] BAHADIRA, Elif Burcu - SEZGINTURK, Mustafa Kemal. *Food Biosensors: Perspective, Reliability, Selectivity, Response Time, Quality Control, and Cost-Effectiveness. In FOOD BIOSENSORS. ISSN 2398-0656, 2017, vol. 1, no., pp. 463-513., Registrované v: WOS*

2. [1.1] FAN, Wenli - XIE, Zhaoyang - CUI, Yue. *Flexible Glass-based Amperometric Sensors for Hydrogen Peroxide. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 7, pp. 1805-1809., Registrované v: WOS*

3. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. *Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS*

4. [1.1] VELOSO, A. C. - FERREIRA, E. C. *Online Analysis for Industrial Bioprocesses: Broth*

Analysis. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 679-704., Registrované v: WOS

- ADCA608 SCHENKMAYEROVÁ, Andrea - BUČKO, Marek - GEMEINER, Peter - TRELOVÁ, Dušana - LACÍK, Igor - CHORVÁT, Dušan Jr. - AČAI, Pavel - POLAKOVIČ, Milan - LIPTÁK, Lukáš - REBROŠ, Martin - ROSENBERG, Michal - ŠTEFUCA, Vladimír - NEDĚLA, Vilém - TIHLAŘÍKOVÁ, Eva. Physical and bioengineering properties of polyvinyl alcohol lens-shaped particles versus spherical polyelectrolyte complex microcapsules as immobilisation matrices for a whole-cell Baeyer-Villiger monooxygenase. In *Applied Biochemistry and Biotechnology*, 2014, vol. 174, p. 1834-1849. (1.687 - IF2013). (2014 - Current Contents). ISSN 0273-2289.

Citácie:

1. [1.1] BAJIC, M. - PLAZL, I. - STLOUKAL, R. - ZNIDARSIC-PLAZL, P. Development of a miniaturized packed bed reactor with omega-transaminase immobilized in LentiKats (R). In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, JAN 2017, vol. 52, p. 63-72., Registrované v: WOS

- ADCA609 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] KAVALLIAUSKIENE, Simona - LINGELEM, Anne Berit Dyve - SKOTLAND, Tore - SANDVIG, Kirsten. Protection against Shiga Toxins. In *TOXINS*. ISSN 2072-6651, 2017, vol. 9, no. 2, pp., Registrované v: WOS

2. [1.1] ROKKA, Johanna - GRONROOS, Tove J. - VILJANEN, Tapio - SOLIN, Olof - HAAPARANTA-SOLIN, Merija. HPLC and TLC methods for analysis of [F-18]FDG and its metabolites from biological samples. In *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*. ISSN 1570-0232, 2017, vol. 1048, no., pp. 140-149., Registrované v: WOS

- ADCA610 SCHMITZOVA, 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.

Citácie:

1. [1.1] BORBA, Renata S. - SPIVAK, Marla. Propolis envelope in *Apis mellifera* colonies supports honey bees against the pathogen, *Paenibacillus larvae*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

2. [1.1] CHEN, Di - LIU, Fang - WAN, Jian-Bo - LAI, Chao-Qiang - SHEN, Li-rong. Effect of Major Royal Jelly Proteins on Spatial Memory in Aged Rats: Metabolomics Analysis in Urine. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 15, pp. 3151-3159., Registrované v: WOS

3. [1.1] EYER, Michael - DAINAT, Benjamin - NEUMANN, Peter - DIETEMANN, Vincent. Social regulation of ageing by young workers in the honey bee, *Apis mellifera*. In *EXPERIMENTAL GERONTOLOGY*. ISSN 0531-5565, 2017, vol. 87, no., pp. 84-91., Registrované v: WOS

4. [1.1] GISMONDI, Angelo - TRIONFERA, Eleonora - CANUTI, Lorena - DI MARCO, Gabriele - CANINI, Antonela. Royal jelly lipophilic fraction induces antiproliferative effects on SH-SY5Y human neuroblastoma cells. In *ONCOLOGY REPORTS*. ISSN 1021-335X, 2017, vol. 38, no. 3, pp. 1833-1844., Registrované v: WOS

5. [1.1] Group Author(s): Uniprot Consortium. O18330. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O18330>, Registrované v: WOS

6. [1.1] Group Author(s): Uniprot Consortium. O77061. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O77061>, Registrované v: WOS

7. [1.1] Group Author(s): Uniprot Consortium. Q17060. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q17060>, Registrované v: WOS

8. [1.1] Group Author(s): Uniprot Consortium. Q17061. UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q17061>, Registrované v: WOS

9. [1.1] HELBING, Sophie - LATTORFF, H. Michael G. - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Comparative analyses of the major royal jelly protein gene cluster in three *Apis* species with long amplicon sequencing. In *DNA RESEARCH*. ISSN 1340-2838, 2017, vol. 24, no. 3, pp. 279-287., Registrované v: WOS

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

11. [1.1] NIE, Hongyi - LIU, Xiaoyan - PAN, Jiao - LI, Wenfeng - LI, Zhiguo - ZHANG, Shaowu -

- CHEN, Shenglu - MIAO, Xiaoqing - ZHENG, Nenggan - SU, Songkun. Identification of genes related to high royal jelly production in the honey bee (*Apis mellifera*) using microarray analysis. In *GENETICS AND MOLECULAR BIOLOGY*. ISSN 1415-4757, 2017, vol. 40, no. 4, pp. 781-789., Registrované v: WOS
12. [1.1] PENG, Chi-Chung - SUN, Hui-Tzu - LIN, I-Ping - KUO, Ping-Chung - LI, Jen-Chieh. The functional property of royal jelly 10-hydroxy-2-decenoic acid as a melanogenesis inhibitor. In *BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1472-6882, 2017, vol. 17, no., pp., Registrované v: WOS
13. [1.1] TAKAMATSU, Daisuke - OSAWA, Aya - NAKAMURA, Keiko - YOSHIYAMA, Mikio - OKURA, Masatoshi. High-level resistance of *Melissococcus plutonius* clonal complex 3 strains to antimicrobial activity of royal jelly. In *ENVIRONMENTAL MICROBIOLOGY REPORTS*. ISSN 1758-2229, 2017, vol. 9, no. 5, pp. 562-570., Registrované v: WOS
14. [1.1] VEZETEU, Thomas V. - BOBIS, Otilia - MORITZ, Robin F. A. - BUTTSTEDT, Anja. Food to some, poison to others honeybee royal jelly and its growth inhibiting effect on European Foulbrood bacteria. In *MICROBIOLOGYOPEN*. ISSN 2045-8827, 2017, vol. 6, no. 1, pp., Registrované v: WOS
15. [1.1] YOU, Zhengying - QIAN, Qiujiu - WANG, Yiran - CHE, Jiaqian - YE, Lupeng - SHEN, Lirong - ZHONG, Boxiong. Transgenic silkworms secrete the recombinant glycosylated MRJP1 protein of Chinese honeybee, *Apis cerana cerana*. In *TRANSGENIC RESEARCH*. ISSN 0962-8819, 2017, vol. 26, no. 5, pp. 653-663., Registrované v: WOS
16. [1.1] YUAN, Shi-Min. Cardiovascular effects of the edible immune enhancing products. In *PROGRESS IN NUTRITION*. ISSN 1129-8723, 2017, vol. 19, no. 4, pp. 349-358., Registrované v: WOS
17. [1.2] XUE, Xiaofeng - WU, Liming - WANG, Kang. Chemical composition of royal jelly. In *Bee Products Chemical and Biological Properties*, 2017-09-05, pp. 181-190., Registrované v: SCOPUS
18. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. Cloning of *AmMRJP5* Gene from *Apis mellifera* L. and Its Prokaryotic Expression. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS

ADCA611 SCHNITZHOFFER, W. - WEBER, H.-J. - VRŠANSKÁ, Mária - BIELY, Peter - CAVACO-PAULO, A. - GUEBITZ, G.M. Purification and mechanistic characterisation of two polygalacturonases from *Sclerotium rolfsii*. In *Enzyme and Microbial Technology*, 2007, vol. 40, p. 1739-1747. (1.897 - IF2006). (2007 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] AMIN, Faiza - BHATTI, Haq Nawaz - BILAL, Muhammad - ASGHER, Muhammad. Purification, Kinetic, and Thermodynamic Characteristics of an Exo-polygalacturonase from *Penicillium notatum* with Industrial Perspective. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 1, pp. 426-443., Registrované v: WOS
2. [1.1] REBELLO, Sharrel - ANJU, Mohandas - ANEESH, Embalil Mathachan - SINDHU, Raveendran - BINOD, Parameswaran - PANDEY, Ashok. Recent advancements in the production and application of microbial pectinases: an overview. In *REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY*. ISSN 1569-1705, 2017, vol. 16, no. 3, pp. 381-394., Registrované v: WOS
3. [1.1] YU, Ping - ZHANG, Yishu - GU, Donglu. Production optimization of a heat-tolerant alkaline pectinase from *Bacillus subtilis* ZGL14 and its purification and characterization. In *BIOENGINEERED*. ISSN 2165-5979, 2017, vol. 8, no. 5, pp. 613-623., Registrované v: WOS

ADCA612 SCHNOES, H.K. - BIEMANN, K. - MOKRÝ, J. - KOMPIŠ, I. - CHATTERJEE, A. Strictamine. In *Journal of Organic Chemistry*, 1966, vol. 31, p. 1641-1642. ISSN 0022-3263.

Citácie:

1. [1.1] ECKERMANN, Ruben - BREUNIG, Michael - GAICH, Tanja. Formal Total Synthesis of (+/-)-Strictamine by [2,3]-Sigmatropic Stevens Rearrangements. In *CHEMISTRY-A EUROPEAN JOURNAL*. ISSN 0947-6539, 2017, vol. 23, no. 16, pp. 3938-3949., Registrované v: WOS
2. [1.1] SMITH, Myles W. - ZHOU, Zhiyao - GAO, Alison X. - SHIMBAYASHI, Takuya - SNYDER, Scott A. A 7-Step Formal Asymmetric Total Synthesis of Strictamine via an Asymmetric Propargylation and Metal-Mediated Cyclization. In *ORGANIC LETTERS*. ISSN 1523-7060, 2017, vol. 19, no. 5, pp. 1004-1007., Registrované v: WOS
3. [1.1] SNYDER, Scott A. Strategies and Tactics for the Synthesis of Complex Alkaloids. In *CHIMIA*. ISSN 0009-4293, 2017, vol. 71, no. 12, pp. 802-809., Registrované v: WOS
4. [1.1] SUSICK, Robert B. - MORRILL, Lucas A. - PICAZO, Elias - GARG, Neil K. Pardon the Interruption: A Modification of Fischer's Venerable Reaction for the Synthesis of Heterocycles and Natural Products. In *SYNLETT*. ISSN 0936-5214, 2017, vol. 28, no. 1, pp. 1-11., Registrované v: WOS

5. [1.1] WANG, Yidong - ZHANG, Peichao - DI, Xiaoyu - DAI, Qiang - ZHANG, Zhan-Ming - ZHANG, Junliang. Gold-Catalyzed Asymmetric Intramolecular Cyclization of *N*-Allenamides for the Synthesis of Chiral Tetrahydrocarbolines. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2017, vol. 56, no. 50, pp. 15905-15909., Registrované v: WOS
6. [1.1] XIAO, Tao - CHEN, Zhi-Tao - DENG, Lin-Feng - ZHANG, Dan - LIU, Xiao-Yu - SONG, Hao - QIN, Yong. Formal total synthesis of the akuammiline alkaloid (+)-strictamine. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 94, pp. 12665-12667., Registrované v: WOS
7. [1.1] XIE, Xiaoni - WEI, Bei - LI, Guang - ZU, Liansuo. Unified Total Syntheses of Structurally Diverse Akuammiline Alkaloids. In *ORGANIC LETTERS*. ISSN 1523-7060, 2017, vol. 19, no. 19, pp. 5430-5433., Registrované v: WOS
- ADCA613 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. (0.913 - IF2005). ISSN 1022-1360.
Citácie:
1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
2. [1.1] YUE, Han - LIU, Yanqiu - QU, Huanhuan - DING, Kan. Structure analysis of a novel heteroxylan from the stem of *Dendrobium officinale* and anti-angiogenesis activities of its sulfated derivative. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 533-542., Registrované v: WOS
- ADCA614 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.
Citácie:
1. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. *Industrial Enzymes: Xylanases*. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS*, 2017, vol., no., pp. 127-148., Registrované v: WOS
2. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. *Industrial Enzymes: Xylanases*. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS*, 2017, vol., no., pp. 127-148., Registrované v: WOS
- ADCA615 SKALKOVÁ, Petra - ČÍŽOVÁ, Alžbeta - JOCHEC MOŠKOVÁ, Daniela - JANIGOVÁ, Ivica. LDPE/glucuronoxylan blends : Preparation and study of thermal and mechanical properties. In *Cellulose Chemistry and Technology*, 2012, vol. 46, no. 1-2, p.69 - 77. (0.550 - IF2011). (2012 - Current Contents). ISSN 0576-9787.
Citácie:
1. [1.1] SUDARI, A.K. - SHAMSURI, A.A. - ZAINUDIN, E.S. - TAHIR, P.M. Exploration on compatibilizing effect of nonionic, anionic, and cationic surfactants on mechanical, morphological, and chemical properties of high-density polyethylene/low-density polyethylene/cellulose biocomposites. In *JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS*. ISSN 0892-7057, JUN 2017, vol. 30, no. 6, p. 855-884., Registrované v: WOS
- ADCA616 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. (4.493 - IF2014). (2015 - Current Contents). ISSN 1463-9076.
Citácie:
1. [1.1] JENSEN, Frank. Using valence bond methods to estimate intramolecular basis set superposition errors. In *JOURNAL OF CHEMICAL PHYSICS*. ISSN 0021-9606, 2017, vol. 146, no. 18, pp., Registrované v: WOS
- ADCA617 SLÁDEK, Vladimír - KÓŇA, Juraj - TOKIWA, Hiroaki. In silico analysis of interaction pattern switching in ligand...receptor binding in Golgi alfa-mannosidase II induced by the protonated states of inhibitors. In *Physical Chemistry Chemical Physics*, 2017, vol. 19, p. 12527-12537. (4.123 - IF2016). (2017 - Current Contents). ISSN 1463-9076.
Citácie:
1. [1.1] CHANDRAMOHAN, Arun - TULSIAN, Nikhil K. - ANAND, Ganesh S. Dissecting Orthosteric Contacts for a Reverse-Fragment-Based Ligand Design. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2017, vol. 89, no. 15, pp. 7876-7885., Registrované v: WOS
- ADCA618 SLÁDEK, Vladimír - ŠKORŇA, Peter - POLIAK, Peter - LUKEŠ, Vladimír. The ab initio study of halogen and hydrogen σ N-bonded para-substituted pyridine...($X_2/XY/HX$) complexes. In *Chemical*

Physics Letters, 2015, vol. 619, p. 7-13. (1.897 - IF2014). (2015 - Current Contents). ISSN 0009-2614.

Citácie:

1. [1.1] OLIVEIRA, Vytor - KRAKA, Elfi - CREMER, Dieter. *Quantitative Assessment of Halogen Bonding Utilizing Vibrational Spectroscopy*. In *INORGANIC CHEMISTRY*. ISSN 0020-1669, 2017, vol. 56, no. 1, pp. 488-502., Registrované v: WOS
2. [1.1] SCHEINER, Steve. *Assembly of Effective Halide Receptors from Components. Comparing Hydrogen, Halogen, and Tetrel Bonds*. In *JOURNAL OF PHYSICAL CHEMISTRY A*. ISSN 1089-5639, 2017, vol. 121, no. 18, pp. 3606-3615., Registrované v: WOS
3. [1.1] SCHEINER, Steve. *Comparison of halide receptors based on H, halogen, chalcogen, pnictogen, and tetrel bonds*. In *FARADAY DISCUSSIONS*. ISSN 1359-6640, 2017, vol. 203, no., pp. 213-226., Registrované v: WOS

ADCA619

SLAMEŇOVÁ, Darina - LÁBAJ, Juraj - LAZAROVÁ, Monika - KOŠÍKOVÁ, Božena. Lignin-stimulated reduction of oxidative DNA lesions in testicular cells and lymphocytes of sprague-dawley rats in vitro and ex vivo. In *Nutrition and Cancer*, 2004, vol. 50, no. 2, p. 198-205. ISSN 0163-5581.

Citácie:

1. [1.1] BAUMGARTNER, Adolf - ALI, Aftab - NORMINGTON, Charmaine - ANDERSON, Diana. *The Comet Assay in Sperm-Assessing Genotoxins in Male Germ Cells*. In *COMET ASSAY IN TOXICOLOGY, 2ND EDITION*. ISSN 1757-7179, 2017, vol. 30, no., pp. 390-456., Registrované v: WOS
2. [1.1] TITTON DIAS, Otavio Augusto - NEGRAO, Djanira Rodrigues - FERNANDA, Daniele - GONCALVES, Chiarelli - CESARINO, Ivana - LEAO, Alcides Lopes. *Recent approaches and future trends for lignin-based materials*. In *MOLECULAR CRYSTALS AND LIQUID CRYSTALS*. ISSN 1542-1406, 2017, vol. 655, no. 1, pp. 204-223., Registrované v: WOS

ADCA620

SLAMEŇOVÁ, Darina - HORVÁTHOVÁ, Eva - KOŠÍKOVÁ, Božena - RUZEKOVA, L. - LÁBAJ, Juraj. Detection of lignin biopolymer- and vitamin E-stimulated reduction of DNA strand breaks in H₂O₂- and MNNG-treated mammalian cells by the comet assay. In *Nutrition and Cancer*, 1999, vol. 33, no. 1, p. 88-94. ISSN 0163-5581.

Citácie:

1. [1.1] QAZI, Sohail S. - LI, Dongbing - BRIENS, Cedric - BERRUTI, Franco - ABOU-ZAID, Mamdouh M. *Antioxidant Activity of the Lignins Derived from Fluidized-Bed Fast Pyrolysis*. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 3, pp., Registrované v: WOS

ADCA621

SLAMEŇOVÁ, Darina - LÁBAJ, Juraj - KRIŽKOVÁ, L. - KOGAN, Grigorij - ŠANDULA, Jozef - BRESGEN, Nikolaus - ECKL, Peter. Protective effects of fungal (1 - 3)-beta-D-glucan derivatives against oxidative DNA lesions in V79 hamster lung cells. In *Cancer Letters*. - Elsevier Science Ireland, 2003, vol. 198, no. 2, p. 153-160. ISSN 0304-3835.

Citácie:

1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. *Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
2. [1.1] CARDENAS-REYNA, Tomas - ANGULO, Carlos - GULUARTE, Crystal - HORIOHIMA, Sawako - REYES-BECERRIL, Martha. *In vitro immunostimulatory potential of fungal beta-glucans in pacific red snapper (Lutjanus peru) cells*. In *DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY*. ISSN 0145-305X, 2017, vol. 77, no., pp. 350-358., Registrované v: WOS
3. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. *Evidence of Some Natural Products with Antigenotoxic Effects. Part 1: Fruits and Polysaccharides*. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
4. [1.1] KERCHER-SILVA, Leandra E. - COLUS, Ilce M. S. - MALINI, Maressa - MORI, Mateus Prates - DEKKER, Robert F. H. - BARBOSA-DEKKER, Aneli M. *In vitro protective effects of botryosphaeran, a (1→3;1→6)-beta-D-glucan, against mutagens in normal and tumor rodent cells*. In *MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS*. ISSN 1383-5718, 2017, vol. 814, no., pp. 29-36., Registrované v: WOS
5. [1.1] PENNINKS, Andre - BAERT, Kathleen - LEVORATO, Sara - BINAGLIA, Marco. *Dyes used in aquaculture*. In *EFSA JOURNAL*. ISSN 1831-4732, 2017, vol. 15, no. 7, pp., Registrované v: WOS
6. [1.1] ZHU, Yuan - MAHANEY, James - JELLISON, Jody - CAO, Jinzhen - GRESSLER, Julia - HOFFMEISTER, Dirk - GOODELL, Barry. *Fungal variegatic acid and extracellular polysaccharides promote the site-specific generation of reactive oxygen species*. In *JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 1367-5435, 2017, vol. 44, no. 3,

- pp. 329-338., Registrované v: WOS
7. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In *Bioactive Polysaccharides*. (Elsevier, pp. 1-554), Registrované v: SCOPUS
- ADCA622 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.
Citácie:
1. [1.1] JAYASUNDAR, Rama. If systems approach is the way forward, what can the ayurvedic theory of tridosha teach us? In *CURRENT SCIENCE*. ISSN 0011-3891, 2017, vol. 112, no. 6, pp. 1127-1133., Registrované v: WOS
2. [1.1] ODO, G. E. - AGWU, E. J. - OSSAI, N. I. - EZEA, C. O. - MADU, J. - ENEJE, V. Effects of Aluminium Phosphide on the Behaviour, Haematology, Oxidative Stress Biomarkers and Biochemistry of African Catfish (*Clarias gariepinus*) Juvenile. In *PAKISTAN JOURNAL OF ZOOLOGY*. ISSN 0030-9923, 2017, vol. 49, no. 2, pp. 433-444., Registrované v: WOS
3. [1.1] ORIGONE, A. C. - DEL MONACO, S. M. - AVILA, J. R. - GONZALEZ FLORES, M. - RODRIGUEZ, M. E. - LOPES, C. A. Tolerance to winemaking stress conditions of Patagonian strains of *Saccharomyces eubayanus* and *Saccharomyces uvarum*. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2017, vol. 123, no. 2, pp. 450-463., Registrované v: WOS
- ADCA623 SLÁVIKOVÁ, Elena - VADKERTIOVÁ, Renáta - VRÁNOVÁ, D. Yeasts colonizing the leaf surfaces. In *Journal of Basic Microbiology*, 2007, vol.47, p.344-350. (1.000 - IF2006). ISSN 0233-111X.
Citácie:
1. [1.1] CROSS, Hugh - SONSTEBO, Jorn Henrik - NAGY, Nina E. - TIMMERMAN, Volkmar - SOLHEIM, Halvor - BORJA, Isabella - KAUSERUD, Havard - CARLSEN, Tor - RZEPKA, Barbara - WASAK, Katarzyna - VIVIAN-SMITH, Adam - HIETALA, Ari M. Fungal diversity and seasonal succession in ash leaves infected by the invasive ascomycete *Hymenoscyphus fraxineus*. In *NEW PHYTOLOGIST*. ISSN 0028-646X, 2017, vol. 213, no. 3, pp. 1405-1417., Registrované v: WOS
2. [1.2] LIMTONG, Savitree - NASANIT, Rujikan. Phylloplane yeasts in tropical climates. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 199-223., Registrované v: SCOPUS
- ADCA624 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.
Citácie:
1. [1.1] GIACOMUZZI, Valentino - MATTHEIS, James P. - BASOALTO, Esteban - ANGELI, Sergio - KNIGHT, Alan L. Survey of conspecific herbivore-induced volatiles from apple as possible attractants for *Pandemis pyrusana* (Lepidoptera: Tortricidae). In *PEST MANAGEMENT SCIENCE*. ISSN 1526-498X, 2017, vol. 73, no. 9, pp. 1837-1845., Registrované v: WOS
2. [1.1] LIMTONG, Savitree - POLBUREE, Pirapan - CHAMNANPA, Thunnicha - KHUNNAMWONG, Pannida - LIMTONG, Pitayakon. *Meira siamensis* sp nov., a novel anamorphic ustilaginomycetous yeast species isolated from the vetiver grass phylloplane. In *INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY*. ISSN 1466-5026, 2017, vol. 67, no. 7, pp. 2418-2422., Registrované v: WOS
3. [1.2] DESHPANDE, Mukund V. - MANE, Sarika S. - GHORMADE, Vandana - TUPE, Santosh G. Diversity of natural yeast flora of grapes and its significance in wine making. In *Yeast Diversity in Human Welfare*, 2017-05-13, pp. 1-27., Registrované v: SCOPUS
- ADCA625 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.
Citácie:
1. [1.1] CAVELLO, Ivana - ALBANESI, Agustin - FRATEBIANCHI, Dante - GARMEDIA, Gabriela - VERO, Silvana - CAVALITTO, Sebastian. Pectinolytic yeasts from cold environments: novel findings of *Guehomyces pullulans*, *Cystofilobasidium infirmominium* and *Cryptococcus adeliensis* producing pectinases. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 2, pp. 319-329., Registrované v: WOS
2. [1.1] YANG, Yang - DOU, Yanxing - HUANG, Yimei - AN, Shaoshan. Links between Soil Fungal Diversity and Plant and Soil Properties on the Loess Plateau. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
3. [1.1] YAO, Qin - LIU, Junjie - YU, Zhenhua - LI, Yansheng - JIN, Jian - LIU, Xiaobing - WANG, Guanghua. Three years of biochar amendment alters soil physiochemical properties and fungal community composition in a black soil of northeast China. In *SOIL BIOLOGY & BIOCHEMISTRY*. ISSN 0038-0717, 2017, vol. 110, no., pp. 56-67., Registrované v: WOS
- ADCA626 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. [1.1] ERGUVEN, Gokhan Onder - YILDIRIM, Numan - ADAR, Elanur. The ability of *Phanerochaete chrysosporium* (ME446) on chemical oxygen demand remediation in submerged culture medium supplemented with malathion insecticide. In *DESALINATION AND WATER TREATMENT*. ISSN 1944-3994, 2017, vol. 94, no., pp. 231-235., Registrované v: WOS
2. [1.1] GRANGETEAU, Cedric - ROULLIER-GALL, Chloe - ROUSSEAU, Sandrine - GOUGEON, Regis D. - SCHMITT-KOPPLIN, Philippe - ALEXANDRE, Herve - GUILLOUX-BENATIER, Michele. Wine microbiology is driven by vineyard and winery anthropogenic factors. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7915, 2017, vol. 10, no. 2, pp. 354-370., Registrované v: WOS

ADCA627

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.

Citácie:

1. [1.1] CUTLER, Nick A. - ARRONIZ-CRESPO, Maria - STREET, Lorna E. - JONES, David L. - CHAPUT, Dominique L. - DELUCA, Thomas H. Long-Term Recovery of Microbial Communities in the Boreal Bryosphere Following Fire Disturbance. In *MICROBIAL ECOLOGY*. ISSN 0095-3628, 2017, vol. 73, no. 1, pp. 75-90., Registrované v: WOS
2. [1.1] DIAZ, Paola E. - ARANDA, Camila - MARTINEZ, Oscar - GODOY, Roberto - GONZALES, Aldo - VALENZUELA, Eduardo. Characterization of yeast in hapludands soil with biotechnological potential. In *JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION*. ISSN 0718-9516, 2017, vol. 17, no. 4, pp. 948-965., Registrované v: WOS
3. [1.1] GLUSHAKOVA, A. M. - KACHALKIN, A. V. - TIUNOV, A. V. - CHERNOV, I. Yu. Distribution of Yeast Complexes in the Profiles of Different Soil Types. In *EURASIAN SOIL SCIENCE*. ISSN 1064-2293, 2017, vol. 50, no. 7, pp. 820-825., Registrované v: WOS
4. [1.1] MASINOVA, Tereza - BAHNMANN, Barbara Doreen - VETROVSKY, Tomas - TOMSOVSKY, Michal - MERUNKOVA, Kristina - BALDRIAN, Petr. Drivers of yeast community composition in the litter and soil of a temperate forest. In *FEMS MICROBIOLOGY ECOLOGY*. ISSN 0168-6496, 2017, vol. 93, no. 2, pp., Registrované v: WOS
5. [1.2] BEGEROW, Dominik - KEMLER, Martin - FEIGE, Anja - YURKOV, Andrey. Parasitism in yeasts. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 179-210., Registrované v: SCOPUS
6. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta - ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS
7. [1.2] YURKOV, Andrey - POZO, María I. Yeast community composition and structure. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 73-100., Registrované v: SCOPUS
8. [1.2] YURKOV, Andrey. Temporal and geographic patterns in yeast distribution. In *Yeasts in Natural Ecosystems: Ecology*, 2017-01-01, pp. 101-130., Registrované v: SCOPUS
9. [1.2] YURKOV, Andrey. Yeasts in forest soils. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 87-116., Registrované v: SCOPUS

ADCA628

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.

Citácie:

1. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta - ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS

ADCA629

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. [1.2] LIBKIND, Diego - BUZZINI, Pietro - TURCHETTI, Benedetta - ROSA, Carlos A. Yeasts in continental and seawater. In *Yeasts in Natural Ecosystems: Diversity*, 2017-01-01, pp. 1-61., Registrované v: SCOPUS

ADCA630

SLOVAKOVA, L. - LISKOVA, Desana - CAPEK, Peter - KUBAČKOVÁ, M. - KÁKONIOVÁ, Daniela - KARACSONYI, S.. Defence responses against TNV infection induced by galactoglucomannan-derived oligosaccharides in cucumber cells. In *European Journal of Plant Pathology*. ISSN 0929-1873.

Citácie:

1. [1.1] BOUTROT, Freddy - ZIPFEL, Cyril. Function, Discovery, and Exploitation of Plant Pattern Recognition Receptors for Broad-Spectrum Disease Resistance. In *ANNUAL REVIEW OF PHYTOPATHOLOGY*, VOL 55. ISSN 0066-4286, 2017, vol. 55, no., pp. 257-286., Registrované v: WOS

- ADCA631 SMRČOK, Ľubomír - SLÁDKOVIČOVÁ, Mariana - LANGER, Vratislav - WILSON, Chick C. - KOŇŠ, Miroslav. On hydrogen bonding in 1,6-anhydro-beta-D-glucopyranose (levoglucosan): X-ray and neutron diffraction and DFT study. In *Acta Crystallographica Section B*, 2006, vol. 62, p. 912-918. ISSN 0108-7681.
- Citácie:
- [1.1] CHRISTENSEN, D. V. - SMITH, A. Is gamma-Al₂O₃ polar? In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, 2017, vol. 423, no., pp. 887-890., Registrované v: WOS
- ADCA632 SMRTIČOVÁ, Hana - ČANIGOVÁ, Margita - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Enzymatic preparation of melibiose and alkyl beta-D-fructofuranosides by commercial lactase. In *Journal of Molecular Catalysis B - Enzymatic*, 2011, vol. 72, p. 53-56. (2.330 - IF2010). (2011 - Current Contents). ISSN 1381-1177.
- Citácie:
- [1.1] XU, Wei - YU, Shuhuai - LIU, Qian - ZHANG, Tao - JIANG, Bo - MU, Wanmeng. Enzymatic Production of Melibiose from Raffinose by the Levansucrase from *Leuconostoc mesenteroides* B-512 FMC. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 19, pp. 3910-3918., Registrované v: WOS
- ADCA633 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. (4.929 - IF2012). (2013 - Current Contents). ISSN 1022-1336.
- Citácie:
- [1.1] JIANG, J.X. - FU, Y.C. - ZHANG, Q.H. - ZHAN, X.L. - CHEN, F.Q. Novel amphiphilic poly(dimethylsiloxane) based polyurethane networks tethered with carboxybetaine and their combined antibacterial and anti-adhesive property. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, AUG 1 2017, vol. 412, p. 1-9., Registrované v: WOS
 - [1.1] MANOURAS, T. - VAMVAKAKI, M. Field responsive materials: photo-, electro-, magnetic- and ultrasound-sensitive polymers. In *POLYMER CHEMISTRY*. ISSN 1759-9954, JAN 7 2017, vol. 8, no. 1, p. 74-96., Registrované v: WOS
 - [1.1] WEI, T. - TANG, Z.C. - YU, Q. - CHEN, H. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, NOV 1 2017, vol. 9, no. 43, p. 37511-37523., Registrované v: WOS
 - [1.1] XIE, Y. - TANG, C.Q. - WANG, Z.H. - XU, Y.T. - ZHAO, W.F. - SUN, S.D. - ZHAO, C.S. Co-deposition towards mussel-inspired antifouling and antibacterial membranes by using zwitterionic polymers and silver nanoparticles. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, SEP 14 2017, vol. 5, no. 34, p. 7186-7193., Registrované v: WOS
 - [1.1] ZHAO, H. - HU, W.B. - MA, H.H. - JIANG, R.C. - TANG, Y.F. - JI, Y. - LU, X.M. - HOU, B. - DENG, W.X. - HUANG, W. - FAN, Q.L. Photo-Induced Charge-Variable Conjugated Polyelectrolyte Brushes Encapsulating Upconversion Nanoparticles for Promoted siRNA Release and Collaborative Photodynamic Therapy under NIR Light Irradiation. In *ADVANCED FUNCTIONAL MATERIALS*. ISSN 1616-301X, NOV 24 2017, vol. 27, no. 44., Registrované v: WOS
 - [1.2] XIE, Y. - CHEN, S. - QIAN, Y. - ZHAO, W. - ZHAO, C. Photo-responsive membrane surface: Switching from bactericidal to bacteria-resistant property. (2017) *Materials Science and Engineering C*, 84, p. 52-59., Registrované v: Scopus
- ADCA634 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. (4.233 - IF2016). (2017 - Current Contents). ISSN 0021-9797.
- Citácie:
- [1.1] JIANG, J.X. - FU, Y.C. - ZHANG, Q.H. - ZHAN, X.L. - CHEN, F.Q. Novel amphiphilic poly(dimethylsiloxane) based polyurethane networks tethered with carboxybetaine and their combined antibacterial and anti-adhesive property. In *APPLIED SURFACE SCIENCE*. ISSN 0169-4332, AUG 1 2017, vol. 412, p. 1-9., Registrované v: WOS
 - [1.1] MANOURAS, T. - VAMVAKAKI, M. Field responsive materials: photo-, electro-, magnetic- and ultrasound-sensitive polymers. In *POLYMER CHEMISTRY*. ISSN 1759-9954, JAN 7 2017, vol. 8, no. 1, p. 74-96., Registrované v: WOS
 - [1.1] WEI, T. - TANG, Z.C. - YU, Q. - CHEN, H. Smart Antibacterial Surfaces with Switchable Bacteria-Killing and Bacteria-Releasing Capabilities. In *ACS APPLIED MATERIALS & INTERFACES*. ISSN 1944-8244, NOV 1 2017, vol. 9, no. 43, p. 37511-37523., Registrované v: WOS
 - [1.1] XIE, Y. - TANG, C.Q. - WANG, Z.H. - XU, Y.T. - ZHAO, W.F. - SUN, S.D. - ZHAO, C.S.

- Co-deposition towards mussel-inspired antifouling and antibacterial membranes by using zwitterionic polymers and silver nanoparticles. In JOURNAL OF MATERIALS CHEMISTRY B. ISSN 2050-750X, SEP 14 2017, vol. 5, no. 34, p. 7186-7193., Registrované v: WOS*
5. [1.1] ZHAO, H. - HU, W.B. - MA, H.H. - JIANG, R.C. - TANG, Y.F. - JI, Y. - LU, X.M. - HOU, B. - DENG, W.X. - HUANG, W. - FAN, Q.L. Photo-Induced Charge-Variable Conjugated Polyelectrolyte Brushes Encapsulating Upconversion Nanoparticles for Promoted siRNA Release and Collaborative Photodynamic Therapy under NIR Light Irradiation. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, NOV 24 2017, vol. 27, no. 44., Registrované v: WOS
- ADCA635 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. (4.041 - IF2016). (2017 - Current Contents). ISSN 0305-7364.
- Citácie:
1. [1.1] HESLOP-HARRISON, J. S. (Pat). Morphology, adaptation and speciation. In ANNALS OF BOTANY. ISSN 0305-7364, 2017, vol. 120, no. 5, pp. 621-624., Registrované v: WOS
- ADCA636 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. (3.376 - IF2013). (2014 - Current Contents). ISSN 0032-0935.
- Citácie:
1. [1.1] OUT, Welmoed A. - MADELLA, Marco. Towards improved detection and identification of crop by-products: Morphometric analysis of bilobate leaf phytoliths of Pennisetum glaucum and Sorghum bicolor. In QUATERNARY INTERNATIONAL. ISSN 1040-6182, 2017, vol. 434, no., pp. 1-14., Registrované v: WOS
- ADCA637 SPIWOK, Vojtech - KRÁLOVÁ, Blanka - TVAROŠKA, Igor. Modelling of beta-D-glucopyranose ring distortion in different force fields: a metadynamics study. In Carbohydrate Research, 2010, vol.345, p. 530-537. (2.025 - IF2009). (2010 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] JIANG, Xue-Wei - ZHANG, Hong-Hui - ZHONG, An-Hua. Analysis on Van der Waals and Electrostatic Interaction of Crystalline Cellulose I beta Based on Molecular Dynamics. In TEXTILE BIOENGINEERING AND INFORMATICS SYMPOSIUM PROCEEDINGS, 2017, VOL. 3. ISSN 1942-3438, 2017, vol., no., pp. 1260-1266., Registrované v: WOS
2. [1.1] MONTGOMERY, Andrew P. - XIAO, Kela - WANG, Xingyong - SKROPETA, Danielle - YU, Haibo. Computational Glycobiology: Mechanistic Studies of Carbohydrate-Active Enzymes and Implication for Inhibitor Design. In STRUCTURAL AND MECHANISTIC ENZYMOLOGY. ISSN 1876-1623, 2017, vol. 109, no., pp. 25-76., Registrované v: WOS
3. [1.1] PLAZINSKI, Wojciech - PLAZINSKA, Anita. Molecular dynamics simulations of hexopyranose ring distortion in different force fields. In PURE AND APPLIED CHEMISTRY. ISSN 0033-4545, 2017, vol. 89, no. 9, pp. 1283-1294., Registrované v: WOS
4. [1.1] VICKMAN, Alison E. - ASHLEY, Daniel C. - BAIK, Mu-Hyun - POHL, Nicola L. B. Effects of varying the 6-position oxidation state of hexopyranoses: a systematic comparative computational analysis of 48 monosaccharide stereoisomers. In JOURNAL OF MOLECULAR MODELING. ISSN 1610-2940, 2017, vol. 23, no. 7, pp., Registrované v: WOS
- ADCA638 SPIWOK, Vojtech - KRÁLOVÁ, B. - TVAROŠKA, Igor. Continuous metadynamics in essential coordinates as a tool for free energy modelling of conformational changes. In Journal of molecular modeling, 2008, vol, 14, p. 995-1002. (1.669 - IF2007). ISSN 1610-2940.
- Citácie:
1. [1.1] GALVELIS, Raimondas - SUGITA, Yuji. Neural Network and Nearest Neighbor Algorithms for Enhancing Sampling of Molecular Dynamics. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 6, pp. 2489-2500., Registrované v: WOS
2. [1.1] SINGH, Richa - BANSAL, Rohit - RATHORE, Anurag Singh - GOEL, Gaurav. Equilibrium Ensembles for Insulin Folding from Bias-Exchange Metadynamics. In BIOPHYSICAL JOURNAL. ISSN 0006-3495, 2017, vol. 112, no. 8, pp. 1571-1585., Registrované v: WOS
- ADCA639 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.
- Citácie:
1. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS
2. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated

- ADCA640 *Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS*
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. (1.960 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215.
 Citácie:
 1. [1.1] *LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In HELVETICA CHIMICA ACTA. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS*
- ADCA641 SPIWOK, Vojtech - KRÁLOVÁ, Blanka. Metadynamics in the conformational space nonlinearly dimensionally reduced by Isomap. In Journal of Chemical Physics, 2011, vol. 135, p. 224504-224509. (2.921 - IF2010). (2011 - Current Contents). ISSN 0021-9606.
 Citácie:
 1. [1.1] *GALVELIS, Raimondas - SUGITA, Yuji. Neural Network and Nearest Neighbor Algorithms for Enhancing Sampling of Molecular Dynamics. In JOURNAL OF CHEMICAL THEORY AND COMPUTATION. ISSN 1549-9618, 2017, vol. 13, no. 6, pp. 2489-2500., Registrované v: WOS*
- ADCA642 SROKOVÁ, Iva - TOMANOVÁ, V. - EBRINGEROVÁ, Anna - MALOVÍKOVÁ, Anna - HEINZE, T. Water-soluble amphiphilic O-(carboxymethyl)cellulose derivatives - synthesis and properties. In Macromolecular Materials and Engineering, 2004, vol. 289, p. 63-69. (1.170 - IF2003). (2004 - Current Contents). ISSN 1438-7492.
 Citácie:
 1. [1.1] *XIE, MengXi - DUAN, YuMin - LI, FanShu - WANG, Xia - CUI, XiaoTong - BACHA, Umar - ZHU, MinPeng - XIAO, Zhigang - ZHAO, Zhuo. Preparation and characterization of modified and functional starch (hexadecyl corboxymethyl starch) ether using reactive extrusion. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 5-6, pp., Registrované v: WOS*
 2. [1.2] *ZHANG, Shimiao - JIN, Liejiang - ARSHAD, Muhammad - ULLAH, Aman. Renewable biomaterials as nanocarriers for drug and gene delivery. In Drug and Gene Delivery to the Central Nervous System for Neuroprotection: Nanotechnological Advances, 2017-06-05, pp. 1-32., Registrované v: SCOPUS*
- ADCA643 STANKOVIČ, Ľudovít - KOCKOVÁ-KRATOCHVÍLOVÁ, A. - BÍLIK, Vojtech. Isomerization of D-glycero-D-galacto-heptose to D-manno-heptulose by selected yeasts. In Folia Microbiologica, 1986, vol. 31, p. 344-345. ISSN 0015-5632.
 Citácie:
 1. [1.1] *COWAN, A. Keith. Occurrence, metabolism, transport and function of seven-carbon sugars. In PHYTOCHEMISTRY REVIEWS. ISSN 1568-7767, 2017, vol. 16, no. 1, pp. 137-157., Registrované v: WOS*
- ADCA644 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. (2.826 - IF2008). (2009 - Current Contents). ISSN 1071-5762.
 Citácie:
 1. [1.1] *ARTURO MARTINEZ-BANACLOCHA, Marcos. Cysteine Dysregulation in Muscular Dystrophies: A Pathogenic Network Susceptible to Therapy. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 3, pp. 312-330., Registrované v: WOS*
 2. [1.2] *Hashmi, S.F. - Sattar, M.Z.A. - Rathore, H.A. - Ahmad, A. - Johns, E.J. A critical review on pharmacological significance of hydrogen sulfide (H₂S) on NF-κB concentration and ICAM-1 expression in renal ischemia reperfusion injury. In Acta Poloniae Pharmaceutica. ISSN 00016837, 2017, vol. 74, no. 3, p. 747-752., Registrované v: SCOPUS*
- ADCA645 STAŠKO, Andrej - LUŠPAI, Karol - BARBIERIKOVÁ, Zuzana - RIMARČÍK, Ján - VAGÁNEK, Adam - LUKEŠ, Vladimír - BELLA, Maroš - MILATA, Viktor - ZALIBERA, Michal - RAPTA, Peter - BREZOVÁ, Vlasta. Stable radical trianions from reversibly formed sigma-dimers of selenadiazoloquinolones studies by in situ EPR/UV-vis spectroelectrochemistry and quantum chemical calculations. In Journal of Physical Chemistry A.Molecules, spectroscopy, kinetics, environment, and general theory, 2012, vol. 116, p. 9919-9927. (2.946 - IF2011). (2012 - Current Contents). ISSN 1089-5639.
 Citácie:
 1. [1.1] *GARRETT, Benjamin R. - POLEN, Shane M. - PIMPLIKAR, Maneesha - HADAD, Christopher M. - WU, Yiyang. Anion-Redox Mechanism of MoO(S-2)(2)(2,2 '-bipyridine) for Electrocatalytic Hydrogen Production. In JOURNAL OF THE AMERICAN CHEMICAL*

- ADCA646 *SOCIETY. ISSN 0002-7863, 2017, vol. 139, no. 12, pp. 4342-4345., Registrované v: WOS*
 STEELE, N. M. - SULOVÁ, Zdena - CAMPBELL, P. - BRAAM, J. - FARKAŠ, Vladimír - FRY, S. C. Ten isoenzymes of xyloglucan endotransglycosylase from plant cell walls select and cleave the donor substrate stochastically. In *Biochemical Journal*, 2001, vol. 355, p. 671-679. ISSN 0264-6021.
 Citácie:
 1. [1.1] SIMMONS, Thomas J. - FRY, Stephen C. Bonds broken and formed during the mixed-linkage glucan : xyloglucan endotransglucosylase reaction catalysed by *Equisetum hetero-trans-beta-glucanase*. In *BIOCHEMICAL JOURNAL. ISSN 0264-6021, 2017, vol. 474, no., pp. 1055-1070., Registrované v: WOS*
 2. [1.2] GIDLEY, Michael J. - GRANT, Reid J.S. Galactomannans and other cell wall storage polysaccharides in seeds. In *Food Polysaccharides and Their Applications: Second Edition, 2016-04-19, pp. 181-215., Registrované v: SCOPUS*
- ADCA647 STEINER, Bohumil - KOŇŠ, Miroslav - MATULOVÁ, Mária - PROKSA, B. Synthesis of 2-acetyl-3-methyl-4H-1,4-benzothiazine and its derivatives. In *Monatshefte fuer Chemie*, 1993, vol. 124, p. 425-430.
 Citácie:
 1. [1.1] EL-MAHDY, Ahmed F. M. - MOHAMED, Omima S. - EL-SHERIEF, Hassan A. H. - HOZIEN, Zeinab A. An Efficient One-Pot Synthesis of Benzo[1,4]Thiazines, Benzo[1,3]Thiazoles and Benzo[1,5] Thiazepines. In *CURRENT ORGANIC SYNTHESIS. ISSN 1570-1794, 2017, vol. 14, no. 4, pp. 604-611., Registrované v: WOS*
- ADCA648 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. (1.960 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0008-6215.
 Citácie:
 1. [1.1] YANG QUANLI - SONG YUYE - YU PING - WANG LONG - LIU MINGGUO - HUANG NIANYU. 1,8-Diazabicyclo[5.4.0]undec-7-ene (DBU)-Promoted Stereoselective Synthesis of Oxazolidin-2-(thi)one Derivatives. In *CHINESE JOURNAL OF ORGANIC CHEMISTRY. ISSN 0253-2786, 2017, vol. 37, no. 12, pp. 3177-3185., Registrované v: WOS*
- ADCA649 STERN, Robert - KOGAN, Grigorij - JEDRZEJAS, Mark J. - ŠOLTĚS, Ladislav. The many ways to cleave hyaluronan. In *Biotechnology Advances*, 2007, vol. 25, p. 537-557. (4.943 - IF2006). (2007 - Current Contents). ISSN 0734-9750.
 Citácie:
 1. [1.1] BOHAUMILITZKY, L. - HUBER, A.K. - STORK, E.M. - WENGERT, S. - WOELFL, F. - BOEHM, H. A Trickster in Disguise: Hyaluronan's Ambivalent Roles in the Matrix. In *FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2017, vol. 7, art. no. 242., Registrované v: WOS*
 2. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS*
 3. [1.1] COZIKOVA, D. - HERMANNOVA, M. - SMEJKALOVA, D. - NESPOROVA, K. - CERNOHOUSOVA, Z. - VELEBNY, V. Degradation products originating from acid-catalyzed hydrolysis of hyaluronan. In *PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON POLYSACCHARIDES-GLYCOSCIENCE. ISSN 2336-6796, 2017, p. 43-45., Registrované v: WOS*
 4. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS*
 5. [1.1] D'AGOSTINO, A. - STELLAVATO, A. - CORSUTO, L. - DIANA, P. - FILOSA, R. - LA GATTA, A. - DE ROSA, M. - SCHIRALDI, C. Is molecular size a discriminating factor in hyaluronan interaction with human cells?. In *CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, p. 21-30., Registrované v: WOS*
 6. [1.1] DOCAMPO, M.J. - CABRERA, J. - BASSOLS, A. Hyaluronan mediates the adhesion of porcine peripheral blood mononuclear cells to poly (I:C)-treated intestinal cells and modulates their cytokine production. In *VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY. ISSN 0165-2427, 2017, vol. 184, p. 8-17., Registrované v: WOS*
 7. [1.1] HE, T.Q. - WU, D. - WANG, X.L. - RONG, J.H. - ZHAO, J.H. Photo-crosslinking hyaluronan-heparin hybrid hydrogels for BMP-2 sustained delivery. In *JOURNAL OF POLYMER ENGINEERING. ISSN 0334-6447, 2017, vol. 37, no. 2, p. 125-133., Registrované v: WOS*
 8. [1.1] LI, W.H. - WONG, H.K. - SERRANO, J. - RANDHAWA, M. - KAUR, S. - SOUTHALL, M.D. - PARSA, R. Topical stabilized retinol treatment induces the expression of HAS genes and HA production in human skin in vitro and in vivo. In *ARCHIVES OF DERMATOLOGICAL RESEARCH. ISSN 0340-3696, 2017, vol. 309, no. 4, p. 275-283., Registrované v: WOS*
 9. [1.1] LOEBEL, C. - SZCZESNY, S.E. - COSGROVE, B.D. - ALINI, M. - ZENOBI-WONG, M. -

MAUCK, R.L. - EGLIN, D. Cross-linking chemistry of tyramine modified hyaluronan hydrogels alters mesenchymal stem cell early attachment and behavior. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 3, p. 855-864., Registrované v: WOS

10. [1.1] PÉREZ-GARNES, M. - MONLEÓN-PRADAS, M. Poly (methacrylated hyaluronan-co-ethyl acrylate) copolymer networks with tunable properties and enzymatic degradation. In *POLYMER DEGRADATION AND STABILITY*. ISSN 0141-3910, 2017, vol. 144, p. 241-250., Registrované v: WOS

11. [1.1] RASHID, H. - CHEN, H.Y. - HASSAN, Q. - JAVED, A. Dwarfism in homozygous *Agc1*(CreERT) mice is associated with decreased expression of aggrecan. In *GENESIS*. ISSN 1526-954X, 2017, vol. 55, no. 10, art. no. e23070., Registrované v: WOS

12. [1.1] RODRIGUEZ-RIOS, L. - DIAZ-PENA, L.F. - LAZCANO-PEREZ, F. - ARREGUIN-ESPINOSA, R. - ROJAS-MOLINA, A. - GARCIA-ARREDONDO, A. Hyaluronidase-like enzymes are a frequent component of venoms from theraphosid spiders. In *TOXICON*. ISSN 0041-0101, 2017, vol. 136, p. 34-43., Registrované v: WOS

13. [1.1] TAO, L. - SONG, F. - XU, N.Y. - LI, D.X. - LINHARDT, R.J. - ZHANG, Z.Q. New insights into the action of bacterial chondroitinase AC I and hyaluronidase on hyaluronic acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 158, p. 85-92., Registrované v: WOS

14. [1.1] VASILIEVA, T. - CHUHCHIN, D. - LOPATIN, S. - VARLAMOV, V. - SIGAREV, A. - VASILIEV, M. Chitin and Cellulose Processing in Low-Temperature Electron Beam Plasma. In *MOLECULES*. ISSN 1420-3049, 2017, vol. 22, no. 11, art. no. 1908., Registrované v: WOS

15. [1.1] WIGHT, T.N. Provisional matrix: A role for versican and hyaluronan. In *MATRIX BIOLOGY*. ISSN 0945-053X, 2017, vol. 60-61, p. 38-56., Registrované v: WOS

16. [1.1] WU, R.L. - HUANG, L. - ZHAO, H.C. - GENG, X.P. Hyaluronic acid in digestive cancers. In *JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY*. ISSN 0171-5216, 2017, vol. 143, no. 1, p. 1-16., Registrované v: WOS

17. [1.1] XIE, J. - LI, A.Q. - LI, J.S. Advances in pH-Sensitive Polymers for Smart Insulin Delivery. In *MACROMOLECULAR RAPID COMMUNICATIONS*. ISSN 1022-1336, 2017, vol. 38, no. 23, SI., art. no. 1700413., Registrované v: WOS

18. [1.1] YAMAMOTO, H. - TOBISAWA, Y. - INUBUSHI, T. - IRIE, F. - OHYAMA, C. - YAMAGUCHI, Y. A mammalian homolog of the zebrafish transmembrane protein 2 (TMEM2) is the long-sought-after cell-surface hyaluronidase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 18, p. 7304-7313., Registrované v: WOS

19. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. - GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. - TROMBETTA, M. Hyaluronan: An overview. In *JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS*. ISSN 0393-974X, E-ISSN 1724-6083, 2017, vol. 31, no. 4, p. 9-22., Registrované v: SCOPUS

20. [1.2] ANDRÉ, P. - KAYA, G. Hyaluronic acid: Science, indications, and results. (Book Chapter). In *COSMETIC MEDICINE AND SURGERY*. CRC Press, 2017, p. 617-625. ISBN 978-131536326-4; 978-148220809-2, Registrované v: SCOPUS

ADCA650 STRATILOVÁ, Eva - DZÚROVÁ, Mária - BREIEROVÁ, Emília - OMELKOVÁ, Jiřina. Purification and biochemical characterization of polygalacturonases produced by *Aureobasidium pullulans*. In *Zeitschrift für Naturforschung C*, 2005, vol. 60, p. 91-96. ISSN 0939-5075.

Citácie:

1. [1.1] LUEPONGPATTANA, S. - THANIVAVARN, J. - MORIKAWA, M. Production of massoia lactone by *Aureobasidium pullulans* YTP6-14 isolated from the Gulf of Thailand and its fragrant biosurfactant properties. In *JOURNAL OF APPLIED MICROBIOLOGY*. ISSN 1364-5072, 2017, vol. 123, no. 6, pp. 1488-1497., Registrované v: WOS

ADCA651 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. (2.485 - IF2009). (2010 - Current Contents). ISSN 0981-9428.

Citácie:

1. [1.1] SARITHA, M. - ARORA, Anju - CHOUDHARY, Jaiaram - RANI, Vijaya - SINGH, Surrender - SHARMA, Anamika - SHARMA, Shalley - NAIN, Lata. The Role and Applications of Xyloglucan Hydrolase in Biomass Degradation/Bioconversion. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 231-248., Registrované v: WOS

2. [1.1] SHINOHARA, Naoki - SUNAGAWA, Naoki - TAMURA, Satoru - YOKOYAMA, Ryusuke - UEDA, Minoru - IGARASHI, Kiyohiko - NISHITANI, Kazuhiko. The plant cell-wall enzyme *AtXTH3* catalyses covalent cross-linking between cellulose and cello-oligosaccharide. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA652 SUCHÁNKOVÁ, Magda - BUCOVÁ, Mária - TIBENSKÁ, Elena - TEDLOVÁ, Eva - DEMIAN,

Juraj - MAJER, Ivan - NOVOSADOVÁ, Helena - TEDLA, Miroslav - PAULOVÍČOVÁ, Ema - KANTAROVÁ, Daniela. Triggering receptor expressed on myeloid cells-1 and 2 in bronchoalveolar lavage fluid in pulmonary sarcoidosis. In *Respirology*, 2013, vol. 18, p. 455-462. (2.781 - IF2012). (2013 - Current Contents). ISSN 1323-7799.

Citácie:

1. [1.1] BASSYOUNI, Iman H. - FAWZI, Samar - GHEITA, Tamer A. - BASSYOUNI, Rasha H. - NASR, Aml S. - EL BAKRY, Samah A. - AFIFI, Naglaa. Clinical Association of a Soluble Triggering Receptor Expressed on Myeloid Cells-1 (sTREM-1) in Patients with Systemic Lupus Erythematosus. In *IMMUNOLOGICAL INVESTIGATIONS*. ISSN 0882-0139, 2017, vol. 46, no. 1, pp. 38-47., Registrované v: WOS

2. [1.1] HALL, Sannette C. - AGRAWAL, Devendra K. Increased TREM-2 expression on the subsets of CD11c(+) cells in the lungs and lymph nodes during allergic airway inflammation. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

ADCA653

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. (1.739 - IF2014). (2015 - Current Contents). ISSN 0300-9475.

Citácie:

1. [1.1] BENITO-LEON, Julian - LAURENCE, Martin. The Role of Fungi in the Etiology of Multiple Sclerosis. In *FRONTIERS IN NEUROLOGY*. ISSN 1664-2295, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.1] TERCELJ, Marjeta - SALOBIR, Barbara - RYLANDER, Ragnar. beta-GLUCAN IN THE LYMPH NODES IN SARCOIDOSIS AND IN KVEIM-SILTZBACH TEST REAGENT. In *SARCOIDOSIS VASCULITIS AND DIFFUSE LUNG DISEASES*. ISSN 1124-0490, 2017, vol. 34, no. 2, pp. 130-135., Registrované v: WOS

3. [1.1] VITERI, Ernesto - FORAY, Nathalie - SONG, Mingchen - LONG, Danxuan. A Case of Chronic Cough in a Winemaker. In *RESPIRATORY MEDICINE CASE REPORTS*. ISSN 2213-0071, 2017, vol. 21, no., pp. 46-48., Registrované v: WOS

ADCA654

SULOVA, 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.

Citácie:

1. [1.1] MENDEZ-YANEZ, Angela - BELTRAN, Dina - CAMPANO-ROMERO, Constanza - MOLINETT, Sebastian - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria - MORALES-QUINTANA, Luis. Glycosylation is important for FcXTH1 activity as judged by its structural and biochemical characterization. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 119, no., pp. 200-210., Registrované v: WOS

2. [1.1] ZHANG, Zongying - WANG, Nan - JIANG, Shenghui - XU, Haifeng - WANG, Yicheng - WANG, Chuanzeng - LI, Min - LIU, Jingxuan - QU, Changzhi - LIU, Wen - WU, Shujing - CHEN, Xiaoliu - CHEN, Xuesen. Analysis of the Xyloglucan Endotransglucosylase/Hydrolase Gene Family during Apple Fruit Ripening and Softening. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*. ISSN 0021-8561, 2017, vol. 65, no. 2, pp. 429-434., Registrované v: WOS

3. [1.2] LIU, Jingxuan - XU, Haifeng - WANG, Deyun - ZHANG, Zongying - WANG, Yicheng - ZUO, Weifang - WANG, Nan - JIANG, Shenghui - MAO, Zhiquan - CHEN, Xuesen. Changes of firmness, aroma, cell wall-modifying enzyme activities and analysis of related-gene expression in 2 red flesh apple strains during fruit storage. In *Acta Horticulturae Sinica*. ISSN 0513353X, 2017-02-25, 44, 2, pp. 330-342., Registrované v: SCOPUS

ADCA655

SULOVA, 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.

Citácie:

1. [1.1] ALVES, Ana - CAEIRO, Andre - CORREIA, Sandra Isabel - VERISSIMO, Paula - CANHOTO, Jorge. Establishment and biochemical characterization of tamarillo (*Solanum betaceum* Cav.) embryogenic cell suspension cultures. In *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT*. ISSN 1054-5476, 2017, vol. 53, no. 6, pp. 606-618., Registrované v: WOS

ADCA656

SULOVA, Zdena - MISLOVIČOVÁ, Danica - GIBALOVÁ, Lenka - VAJČNEROVÁ, Z - POLÁKOVÁ, Eva - UHRÍK, Branislav - TYLKOVÁ, Lucia - KOVÁROVÁ, Annamaria - SEDLÁK, Ján - BREIER, Albert. Vincristine-Induced Overexpression of P-Glycoprotein in L1210 Cells Is Associated with Remodeling of Cell Surface Saccharides. In *Journal of Proteome Research*, 2009, vol. 8, no. 2, p. 513-520. (5.684 - IF2008). (2009 - Current Contents). ISSN 1535-3893.

Citácie:

1. [1.1] FLOREZ, M. M. - FEO, H. B. - DA SILVA, G. N. - YAMATOGLI, R. S. - AGUIAR, A. J. - ARAUJO, J. P. - ROCHA, N. S. Cell cycle kinetics, apoptosis rates and gene expressions of MDR-1, TP53, BCL-2 and BAX in transmissible venereal tumour cells and their association with therapy response. In VETERINARY AND COMPARATIVE ONCOLOGY. ISSN 1476-5810, 2017, vol. 15, no. 3, pp. 793-807., Registrované v: WOS

ADCA657

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. (3.269 - IF2014). (2015 - Current Contents). ISSN 1436-2228.

Citácie:

1. [1.1] MORELLI, Andrea - PUPPI, Dario - CHIELLINI, Federica. Perspectives on Biomedical Applications of Ulvan. In SEAWEED POLYSACCHARIDES: ISOLATION, BIOLOGICAL AND BIOMEDICAL APPLICATIONS, 2017, vol., no., pp. 305-330., Registrované v: WOS
 2. [1.1] PANGESTUTI, Ratih - KURNIANTO, Dedy. Green Seaweeds-Derived Polysaccharides Ulvan: Occurrence, Medicinal Value and Potential Applications. In SEAWEED POLYSACCHARIDES: ISOLATION, BIOLOGICAL AND BIOMEDICAL APPLICATIONS, 2017, vol., no., pp. 205-221., Registrované v: WOS
 3. [1.1] WANG, Miaomiao - LIU, Yong - QIANG, Mingliang - WANG, Junhui. Structural elucidation of a pectin-type polysaccharide from Hovenia dulcis peduncles and its proliferative activity on RAW264.7 cells. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 1246-1253., Registrované v: WOS
 4. [1.1] XU, Shu-Ying - HUANG, Xuesong - CHEONG, Kit-Leong. Recent Advances in Marine Algae Polysaccharides: Isolation, Structure, and Activities. In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 12, pp., Registrované v: WOS
 5. [1.1] ZHAO, Jing - DENG, Yong - LI, Shao-ping. Advanced analysis of polysaccharides, novel functional components in food and medicine dual purposes Chinese herbs. In TRAC-TRENDS IN ANALYTICAL CHEMISTRY. ISSN 0165-9936, 2017, vol. 96, no., pp. 138-150., Registrované v: WOS

ADCA658

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] ARCURI, M. - DI BENEDETTO, R. - CUNNINGHAM, A. F. - SAUL, A. - MACLENNAN, C. A. - MICOLI, F. The influence of conjugation variables on the design and immunogenicity of a glycoconjugate vaccine against Salmonella Typhi. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
 2. [1.1] KHATUN, Farjana - STEPHENSON, Rachel J. - TOTH, Istvan. An Overview of Structural Features of Antibacterial Glycoconjugate Vaccines That Influence Their Immunogenicity. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 18, pp. 4233-4254., Registrované v: WOS
 3. [1.1] NI, Yawei - SPRINGER, Michael J. - GUO, Jianhua - FINGER-BAKER, Isaac - WILSON, James P. - COBB, Ronald R. - TURNER, Debra - TIZARD, Ian. Development of a synthetic Vi polysaccharide vaccine for typhoid fever. In VACCINE. ISSN 0264-410X, 2017, vol. 35, no. 51, pp. 7121-7126., Registrované v: WOS

ADCA659

ŠAFÁŘ, Peter - ŽÚŽIOVÁ, Jozefína - MARCHALÍN, Štefan - PRÓNAYOVÁ, Nadežda - ŠVORC, Ľubomír - VRÁBEL, Viktor - ŠESTÁK, Sergej - RENDIČ, Dubravko - TOGNETTI, Vincent - JOUBERT, Laurent - DAICH, Adam. Combined chemical, biological and theoretical DFT-QTAIM study of potent glycosidase inhibitors based on quaternary indolizinium salts. In European Journal of Organic Chemistry, 2012, vol. 2012, p. 5498-5514. (3.329 - IF2011). (2012 - Current Contents). ISSN 1434-193X.

Citácie:

1. [1.1] FIRME, Caio L. - MONTEIRO, Norberto K. V. - SILVA, Sergio R. B. QTAIM and NCI analysis of intermolecular interactions in steroid ligands binding a cytochrome P450 enzyme Beyond the most obvious interactions. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2017, vol. 1111, no., pp. 40-49., Registrované v: WOS
 2. [1.1] UPADHYAY, Nitinkumar Satyadev - JAYAKUMAR, Jayachandran - CHENG, Chien-Hong. Facile one-pot synthesis of 2,3-dihydro-1H-indolizinium derivatives by rhodium(III)-catalyzed intramolecular oxidative annulation via C-H activation: application to ficuseptine

- synthesis. In CHEMICAL COMMUNICATIONS. ISSN 1359-7345, 2017, vol. 53, no. 16, pp. 2491-2494., Registrované v: WOS*
- ADCA660 ŠAMAJ, J. - BOBÁK, M. - BLEHOVÁ, A. - KRIŠTÍN, J. - AUXTOVÁ-ŠAMAJOVÁ, O. Developmental SEM observations of an extracellular matrix in embryogenic calli of *Drosera rotundifolia* and *Zea mays*. In *Protoplasma*, 1995, vol. 186, p. 45-49. ISSN 0033-183X.
- Citácie:
- [1.1] BETEKHTIN, Alexander - ROJEK, Magdalena - MILEWSKA-HENDEL, Anna - GAWECKI, Robert - KARCZ, Jagna - KURCZYNSKA, Ewa - HASTEROK, Robert. Spatial Distribution of Selected Chemical Cell Wall Components in the Embryogenic Callus of *Brachypodium distachyon*. In *PLOS ONE*. ISSN 1932-6203, 2016, vol. 11, no. 11, pp., Registrované v: WOS
 - [1.1] HRIB, Jiri - VOOKOVA, Bozena - NEDELA, Vilem. Imaging of native early embryogenic tissue of Scots pine (*Pinus sylvestris* L.) by ESEM. In *OPEN LIFE SCIENCES*. ISSN 2391-5412, 2015, vol. 10, no. 1, pp. 285-290., Registrované v: WOS
 - [1.1] KORINEK, R. - MIKULKA, J. - HRIB, J. - HUDEC, J. - HAVEL, L. - BARTUSEK, K. Characterization of the Embryogenic Tissue of the Norway Spruce Including a Transition Layer between the Tissue and the Culture Medium by Magnetic Resonance Imaging. In *MEASUREMENT SCIENCE REVIEW*. ISSN 1335-8871, 2017, vol. 17, no. 1, pp. 19-26., Registrované v: WOS
 - [1.1] LELJAK-LEVANIC, Dunja - MIHALJEVIC, Snjezana - BAUER, Natasa. Somatic and zygotic embryos share common developmental features at the onset of plant embryogenesis. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2015, vol. 37, no. 7, pp., Registrované v: WOS
 - [1.1] MAKOWSKA, Katarzyna - KALUZNIAK, Marta - OLESZCZUK, Sylwia - ZIMNY, Janusz - CZAPLICKI, Andrzej - KONIECZNY, Robert. Arabinogalactan proteins improve plant regeneration in barley (*Hordeum vulgare* L.) anther culture. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 131, no. 2, pp. 247-257., Registrované v: WOS
 - [1.1] NAZ, Ruphi - ANIS, Mohammad - ALATAR, Abdulrahman A. Embling Production in *Althaea officinalis* L., Through Somatic Embryogenesis and Their Appraisal via Histological and Scanning Electron Microscopical Studies. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 182, no. 3, pp. 1182-1197., Registrované v: WOS
 - [1.1] NEDELA, Vilem - HRIB, Jiri - HAVEL, Ladislav - HUDEC, Jiri - RUNSTUK, Jiri. Imaging of Norway spruce early somatic embryos with the ESEM, Cryo-SEM and laser scanning microscope. In *MICRON*. ISSN 0968-4328, 2016, vol. 84, no., pp. 67-71., Registrované v: WOS
- ADCA661 ŠANDULA, Jozef - KOGAN, Grigorij - KAČURÁKOVÁ, Marta - MACHOVÁ, Eva. Microbial (1-3)-beta-glucans, their preparation, physico-chemical characterization and immunomodulatory activity. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 1999, vol. 38, p 247-253. (1.129 - IF1998). (1999 - Current Contents). ISSN 0144-8617.
- Citácie:
- [1.1] ALZORQI, Ibrahim - SUDHEER, Surya - LU, Ting-Jang - MANICKAM, Sivakumar. Ultrasonically extracted beta-D-glucan from artificially cultivated mushroom, characteristic properties and antioxidant activity. In *ULTRASONICS SONOCHEMISTRY*. ISSN 1350-4177, 2017, vol. 35, no., pp. 531-540., Registrované v: WOS
 - [1.1] BEZERRA, Lorena Soares - MAGNANI, Marciane - HERNAN CASTRO-GOMEZ, Raul Jorge - CAVALCANTE, Hassler Clementino - FELISBERTO DA SILVA, Tays Amanda - PAIXAO VIEIRA, Renata Layne - DE MEDEIROS, Isac Almeida - VERAS, Robson Cavalcante. Modulation of vascular function and anti-aggregation effect induced by (1> 3) (1> 6)-(beta-D-glucan of *ITSaccharomyces cerevisiae*&IT and its carboxymethylated derivative in rats. In *PHARMACOLOGICAL REPORTS*. ISSN 1734-1140, 2017, vol. 69, no. 3, pp. 448-455., Registrované v: WOS
 - [1.1] FRANCIOSO, Antonio - DINARELLI, Simone - GIRASOLE, Marco - CERVONI, Laura - D'ERME, Maria - MURA, Francesco - BOFFI, Alberto - MONTANARI, Elita - MOSCA, Luciana. Behind Resveratrol Stabilization by Carboxymethylated (1,3/1,6)-beta-D-Glucan: Does the Polyphenol Play a Role in Polymer Structural Organization? In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
 - [1.1] KAUR, Taranpreet - GHOSH, Moushumi. Characterization and toxicity of a phosphate-binding exobiopolymer produced by *Acinetobacter haemolyticus* MG606. In *JOURNAL OF WATER AND HEALTH*. ISSN 1477-8920, 2017, vol. 15, no. 1, pp. 103-111., Registrované v: WOS
 - [1.1] QI, Lu-Ming - ZHANG, Ji - LIU, Hong-Gao - LI, Tao - WANG, Yuan-Zhong. Fourier transform mid-infrared spectroscopy and chemometrics to identify and discriminate *Boletus edulis* and *Boletus tomentipes* mushrooms. In *INTERNATIONAL JOURNAL OF FOOD PROPERTIES*. ISSN 1094-2912, 2017, vol. 20, no., pp. S56-S68., Registrované v: WOS

6. [1.1] QUILES, Fabienne - ACCOCEBERRY, Isabelle - COUZIGOU, Cella - FRANCIUS, Gregory - NOEL, Thierry - EL-KIRAT-CHATEL, Sofiane. *AFM combined to ATR-FTIR reveals Candida cell wall changes under caspofungin treatment.* In *NANOSCALE*. ISSN 2040-3364, 2017, vol. 9, no. 36, pp. 13731-13738., Registrované v: WOS
7. [1.1] TANG, Qilin - HUANG, Gangliang - ZHAO, Fengying - ZHOU, Lu - HUANG, Shiqi - LI, Hui. *The antioxidant activities of six (1> 3)-beta-D-glucan derivatives prepared from yeast cell wall.* In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 98, no., pp. 216-221., Registrované v: WOS
8. [1.2] DHUA, Manabendra - SEN, Kalyan Kumar - MAITI, Sabyasachi. *Bio-targets for polyionic glucan derivatives and their nano-therapeutic systems.* In *Bio-Targets and Drug Delivery Approaches*, 2016-11-03, pp. 487-521., Registrované v: SCOPUS
9. [1.2] JAMIL, Muhammad - MANSOOR, Muhammad - ALI, Asghar - SHAHZAD, Haroon - RIZWAN-UL-HAQ - AWAN, Aftab Ahmad - GUL, Jaweria. *Role of herbal immunomodulators in control of coccidiosis disease.* In *Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences*. ISSN 22216421, 2017-01-01, 60, 3, pp. 176-182., Registrované v: SCOPUS
10. [1.2] Nie, S., Cui, S. W., & Xie, M. (2017). In *Bioactive Polysaccharides (Elsevier, pp. 1-554)*, Registrované v: SCOPUS
- ADCA662 ŠANDULA, Jozef - MACHOVÁ, Eva - HRIBALOVA, V. *Mitogenic activity of particulate yeast beta-(1,3)-D-glucan and its water-soluble derivatives.* In *International Journal of Biological Macromolecules*, 1995, vol. 17, no. 6, p. 323-326. ISSN 0141-8130.
Citácie:
1. [1.1] BASHIR, Khawaja Muhammad Imran - CHOI, Jae-Suk. *Clinical and Physiological Perspectives of Glucans: The Past, Present, and Future.* In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 9, pp., Registrované v: WOS
- ADCA663 ŠEFČOVIČOVÁ, Jana, Blahutová - KATRLÍK, Jaroslav - ŠTEFUCA, V. - MASTIHUBA, Vladimír - VOŠTIAR, I. - GREIF, G. - BUČKO, Marek - TKÁČ, Ján - GEMEINER, Peter. *A filtration probe-free on-line monitoring of glycerol during fermentation by a biosensor device.* In *Enzyme and Microbial Technology*, 2008, vol. 42, p. 434-439. ISSN 0141-0229.
Citácie:
1. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. *Biosensors.* In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS*, 2017, vol., no., pp. 627-648., Registrované v: WOS
- ADCA664 ŠEFČOVIČOVÁ, Jana, Blahutová - VIKARTOVSKÁ, Alica, Welwardová - 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.
Citácie:
1. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. *Biosensors.* In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS*, 2017, vol., no., pp. 627-648., Registrované v: WOS
- ADCA665 ŠEFČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - GEMEINER, Peter - VIKARTOVSKÁ, Alica, Welwardová - PÄTOPRSTÝ, Vladimír - TKÁČ, Ján. *High performance microbial 3-D bionanocomposite as a bioanode for a mediated biosensor device.* In *Electrochemistry Communications*, 2011, vol. 13, p. 966-968. (4.282 - IF2010). (2011 - Current Contents). ISSN 1388-2481.
Citácie:
1. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. *Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell.* In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
- ADCA666 ŠEFČOVIČOVÁ, Jana, Blahutová - 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. (2.578 - IF2010). (2011 - Current Contents). ISSN 0026-3672.
Citácie:
1. [1.1] KANT, Ravi - TABASSUM, Rana - GUPTA, Banshi D. *A highly sensitive and distinctly selective D-sorbitol biosensor using SDH enzyme entrapped Ta2O5 nanoflowers assembly coupled with fiber optic SPR.* In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 242, no., pp. 810-817., Registrované v: WOS
- ADCA667 ŠEFČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - MASTIHUBA, Vladimír - GEMEINER, Peter -

TKÁČ, Ján. Analysis of ethanol in fermentation samples by a robust nanocomposite-based microbial biosensors. In *Biotechnology Letters*, 2012, vol. 34, p. 1033-1039. (1.683 - IF2011). (2012 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS

2. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS*, 2017, vol., no., pp. 627-648., Registrované v: WOS

ADCA668

ŠESTÁK, Sergej - FARKAŠ, Vladimír. Metabolic regulation of endoglucanase synthesis in *Trichoderma reesei*-participation of cyclic AMP and glucose-6-phosphate. In *Canadian journal of microbiology : revue canadienne de microbiologie*, 1993, vol. 39, p. 342-347. ISSN 0008-4166.

Citácie:

1. [1.1] RASSINGER, A. - MELLO-DE-SOUSA, T. M. - REGNAT, K. - DERNTL, C. - MACH, R. L. - MACH-AIGNER, A. R. Impact of xylanase expression-inducing compounds on DNA accessibility in *Trichoderma reesei*. In *MYCOSPHERE*. ISSN 2077-7000, 2017, vol. 8, no. 3, pp. 432-444., Registrované v: WOS

2. [1.2] KADOWAKI, Marina Kimiko - DE CÁSSIA GARCIA SIMÃO, Rita - DA CONCEIÇÃO SILVA, Jose Luis - OSAKU, Clarice Aoki - GUIMARÃES, Luis Henrique Souza. Biotechnological advances in fungal invertases. In *Fungal Enzymes*, 2016-04-19, pp. 1-30., Registrované v: SCOPUS

3. [1.2] SILVA, Roberto N. Regulation of plant cell wall degrading enzymes formation in filamentous fungi. In *Fungal Enzymes*, 2016-04-19, pp. 173-213., Registrované v: SCOPUS

ADCA669

ŠESTÁK, Sergej - FARKAŠ, Vladimír. In situ assays of fungal enzymes in cells permeabilized by osmotic shock. In *Analytical Biochemistry*, 2001, vol. 292., p. 34-39. ISSN 0003-2697.

Citácie:

1. [1.1] PATIL, Mahesh D. - DEV, Manoj J. - SHINDE, Ashok S. - BHILARE, Kiran D. - PATEL, Gopal - CHISTI, Yusuf - BANERJEE, Uttam Chand. Surfactant-mediated permeabilization of *Pseudomonas putida* KT2440 and use of the immobilized permeabilized cells in biotransformation. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2017, vol. 63, no., pp. 113-121., Registrované v: WOS

ADCA670

ŠIMKOVIČ, 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. ISSN 0144-8617.

Citácie:

1. [1.1] ABBASIAN, Mojtaba - PAKZAD, Mousa - NAZARI, Kobra. Synthesis of Cellulose-graft-Polychloromethylstyrene-graft-Polyacrylonitrile Terpolymer/Organoclay Bionanocomposite by Metal Catalyzed Living Radical Polymerization and Solvent Blending Method. In *POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING*. ISSN 0360-2559, 2017, vol. 56, no. 8, pp. 857-865., Registrované v: WOS

2. [1.1] AO, Chenghong - NIU, Yan - ZHANG, Ximu - HE, Xu - ZHANG, Wei - LU, Canhui. Fabrication and characterization of electrospun cellulose/nano-hydroxyapatite nanofibers for bone tissue engineering. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 97, no., pp. 568-573., Registrované v: WOS

3. [1.1] CAHU, Thiago B. - SILVA, Rodrigo A. - SILVA, Raquel P. F. - SILVA, Milena M. - ARRUDA, Isabel R. S. - SILVA, Janilson F. - COSTA, Romero M. P. B. - SANTOS, Suzan D. - NADER, Helena B. - BEZERRA, Ranilson S. Evaluation of Chitosan-Based Films Containing Gelatin, Chondroitin 4-Sulfate and ZnO for Wound Healing. In *APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY*. ISSN 0273-2289, 2017, vol. 183, no. 3, pp. 765-777., Registrované v: WOS

4. [1.1] ELDIN, M. S. Mohy - HASHEM, A. E. - TAMER, T. M. - OMER, A. M. - YOSSUF, M. E. - SABET, M. M. Development of Cross linked Chitosan/Alginate Polyelectrolyte Proton Exchanger Membranes for Fuel Cell Applications. In *INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE*. ISSN 1452-3981, 2017, vol. 12, no. 5, pp. 3840-3858., Registrované v: WOS

5. [1.1] MAHMOOD, Hamayoun - MONIRUZZAMAN, Muhammad - YUSUP, Suzana - AKIL, Hazizan Md. Green Composites from Ionic Liquid-Assisted Processing of Sustainable Resources: A Brief Overview. In *PROGRESS AND DEVELOPMENTS IN IONIC LIQUIDS*, 2017, vol., no., pp. 117-131., Registrované v: WOS

6. [1.1] MAHMOOD, Hamayoun - MONIRUZZAMAN, Muhammad - YUSUP, Suzana - WELTON,

Tom. Ionic liquids assisted processing of renewable resources for the fabrication of biodegradable composite materials. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 9, pp. 2051-2075., Registrované v: WOS

7. [1.1] OLADOJA, Nurudeen A. - UNUABONAH, Emmanuel I. - AMUDA, Omotayo S. - KOLAWOLE, Olatunji M. Mechanistic Insight into the Coagulation Efficiency of Polysaccharide-based Coagulants. In *POLYSACCHARIDES AS GREEN AND SUSTAINABLE RESOURCES FOR WATER AND WASTEWATER TREATMENT*. ISSN 2191-5407, 2017, vol., no., pp. 13-35., Registrované v: WOS

8. [1.1] OLADOJA, Nurudeen A. - UNUABONAH, Emmanuel I. - AMUDA, Omotayo S. - KOLAWOLE, Olatunji M. Progress and Prospects of Polysaccharide Composites as Adsorbents for Water and Wastewater Treatment. In *POLYSACCHARIDES AS GREEN AND SUSTAINABLE RESOURCES FOR WATER AND WASTEWATER TREATMENT*. ISSN 2191-5407, 2017, vol., no., pp. 65-90., Registrované v: WOS

9. [1.1] SANTAGATA, Gabriella - SCHETTINI, Evelia - VOX, Giuliano - IMMIRZI, Barbara - MUGNOZZA, Giacomo Scarascia - MALINCONICO, Mario. Biodegradable Spray Mulching and Nursery Pots: New Frontiers for Research. In *SOIL DEGRADABLE BIOPLASTICS FOR A SUSTAINABLE MODERN AGRICULTURE*. ISSN 2196-6982, 2017, vol., no., pp. 105-137., Registrované v: WOS

ADCA671 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Xylan sulphate films. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2011, vol. 86, p. 214-218. (3.463 - IF2010). (2011 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In *Biopackaging*, 2017-01-01, pp. 257-287., Registrované v: SCOPUS

ADCA672 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - MENDICHI, R. - VAN SOEST, J.J.G. Cross-linking of starch with 1,2,3,4-diepoxybutane or 1,2,7,8-diepoxyoctane. In *Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides*, 2004, vol. 55, p. 299-305. (1.597 - IF2003). (2004 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] RIBBA, Laura - GARCIA, Nancy L. - D'; ACCORSO, Norma - GOYANES, Silvia. Disadvantages of Starch-Based Materials, Feasible Alternatives in Order to Overcome These Limitations. In *STARCH-BASED MATERIALS IN FOOD PACKAGING: PROCESSING, CHARACTERIZATION AND APPLICATIONS*, 2017, vol., no., pp. 37-76., Registrované v: WOS

ADCA673 ŠIMKOVIC, Ivan. Unexplored possibilities of all-polysaccharide composites. In *Carbohydrate Polymers*, 2013, vol. 95, p. 697-715. (3.479 - IF2012). (2013 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] AZEVEDO, Viviane Machado - BORGES, Soraia Vilela - MARCONCINI, Jose Manoel - YOSHIDA, Maria Irene - SENA NETO, Alfredo Rodrigues - PEREIRA, Tamara Coelho - GONCALVES PEREIRA, Camila Ferreira. Effect of replacement of corn starch by whey protein isolate in biodegradable film blends obtained by extrusion. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 971-980., Registrované v: WOS

2. [1.1] GUTIERREZ, Tomy J. - ALVAREZ, Vera A. Cellulosic materials as natural fillers in starch-containing matrix-based films: a review. In *POLYMER BULLETIN*. ISSN 0170-0839, 2017, vol. 74, no. 6, pp. 2401-2430., Registrované v: WOS

3. [1.1] GUTIERREZ, Tomy J. - ALVAREZ, Vera A. Properties of native and oxidized corn starch/polystyrene blends under conditions of reactive extrusion using zinc octanoate as a catalyst. In *REACTIVE & FUNCTIONAL POLYMERS*. ISSN 1381-5148, 2017, vol. 112, no., pp. 33-44., Registrované v: WOS

4. [1.1] KIM, Joo Ran - NETRAVALI, Anil N. Self-healing starch-based 'green' thermoset resin. In *POLYMER*. ISSN 0032-3861, 2017, vol. 117, no., pp. 150-159., Registrované v: WOS

5. [1.1] MUTHU, Manikandan - WU, Hui-Fen - GOPAL, Judy - SIVANESAN, Iyyakkannu - CHUN, Sechul. Exploiting Microbial Polysaccharides for Biosorption of Trace Elements in Aqueous Environments-Scope for Expansion via Nanomaterial Intervention. In *POLYMERS*. ISSN 2073-4360, 2017, vol. 9, no. 12, pp., Registrované v: WOS

6. [1.1] NOREEN, Aqdas - NAZLI, Zill-i-Huma - AKRAM, Javeria - RASUL, Ijaz - MANSHA, Asim - YAQOOB, Nazia - IQBAL, Rehana - TABASUM, Shazia - ZUBER, Mohammad - ZIA, Khalid Mahmood. Pectins functionalized biomaterials; a new viable approach for biomedical applications: A review. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 101, no., pp. 254-272., Registrované v: WOS

7. [1.1] SABERI, Bahareh - THAKUR, Rahul - BHUYAN, Deep Jyoti - VUONG, Quan V. - CHOCKCHASAWASDEE, Suwimol - GOLDING, John B. - SCARLETT, Christopher J. -

- STATHOPOULOS, Costas E. Development of edible blend films with good mechanical and barrier properties from pea starch and guar gum. In STARCH-STARKE. ISSN 0038-9056, 2017, vol. 69, no. 1-2, pp., Registrované v: WOS*
8. [1.1] SAKAI, Kiyota - MOCHIZUKI, Mai - YAMADA, Miyuki - SHINZAWA, Yuta - MINEZAWA, Miho - KIMOTO, Saran - MURATA, Shunsuke - KANEKO, Yuhei - ISHIHARA, Saaya - JINDOU, Sadanari - KOBAYASHI, Tetsuo - KATO, Masashi - SHIMIZU, Motoyuki. Biochemical characterization of thermostable beta-1,4-mannanase belonging to the glycoside hydrolase family 134 from *Aspergillus oryzae*. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3237-3245., Registrované v: WOS
9. [1.1] ZHANG, Jinming - LUO, Nan - WAN, Jiqiang - XIA, Guangmei - YU, Jian - HE, Jiasong - ZHANG, Jun. Directly Converting Agricultural Straw into All-Biomass Nanocomposite Films Reinforced with Additional in Situ-Retained Cellulose Nanocrystals. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5127-5133., Registrované v: WOS
10. [1.2] Pectin-based composites. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 487-517., Registrované v: SCOPUS
- ADCA674 ŠIMKOVIC, Ivan - ALFOLDI, Juraj. Acetylation of (4-O-methyl-D-glucurono)-D-xylan under homogenous conditions using trifluoroacetic acid-acetic anhydride. In Carbohydrate Research. - Elsevier, 1990, vol. 201, p. 346-348. (1990 - Current Contents, SCOPUS). ISSN 0008-6215.
Citácie:
1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
- ADCA675 ŠIMKOVIC, Ivan - ALFOLDI, Juraj - SCHULTEN, H.R. Effect of pretreatment on pyrolysis-field ionization mass spectrometric data of (4-O-methyl-D-glucurono)-D-xylan from beech wood. In Biomass and Bioenergy, 1993, vol. 4, p. 373-378. ISSN 0961-9534.
Citácie:
1. [1.1] ZHOU, Xiaowei - LI, Wenjun - MABON, Ross - BROADBELT, Linda J. A Critical Review on Hemicellulose Pyrolysis. In ENERGY TECHNOLOGY. ISSN 2194-4288, 2017, vol. 5, no. 1, pp. 52-79., Registrované v: WOS
- ADCA676 ŠIMKOVIC, Ivan - FRANCIS, B. A. - REEVES, J.B. Pyrolysis-gas chromatography mass spectrometry analysis of starch-based ion-exchangers. In Journal of Analytical and Applied Pyrolysis, 1997, vol. 43, p. 145-155.
Citácie:
1. [1.1] WORZAKOWSKA, Marta - TORRES-GARCIA, Enelio. The effect of the grafting percentage of starch-g-poly(phenyl acrylate) copolymers on their pyrolysis and kinetics studied by the TG/DSC/FTIR/QMS-coupled method. In POLYMER DEGRADATION AND STABILITY. ISSN 0141-3910, 2017, vol. 139, no., pp. 67-75., Registrované v: WOS
- ADCA677 ŠIMKOVIC, Ivan - GEDEON, Ondrej - UHLIARIKOVÁ, Iveta - MENDICHI, Raniero - KIRSCHNEROVÁ, Soňa. Positively and negatively charged xylan films. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2011, vol. 83, p. 769-775. (3.463 - IF2010). (2011 - Current Contents). ISSN 0144-8617.
Citácie:
1. [1.1] IBN YAICH, Anas - EDLUND, Ulrica - ALBERTSSON, Ann-Christine. Transfer of Biomatrix/Wood Cell Interactions to Hemicellulose-Based Materials to Control Water Interaction. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 12, pp. 8177-8207., Registrované v: WOS
2. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
- ADCA678 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. ISSN 0341-8162.
Citácie:
1. [1.1] ADELOPO, Abdulganiyu O. - HARIS, Parvez I. - ALO, Babajide - HUDDERSMAN, Katherine - JENKINS, Richard O. Comparative Characterisation of Closed and Active Landfill Composites Using EDX, FTIR and Proximate Techniques. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, 2017, vol. 8, no. 4, pp. 1313-1323., Registrované v: WOS
2. [1.1] CHEN, Xi - MAO, Alice - ZHANG, Yajie - ZHANG, Ligan - CHANG, Jiang - GAO, Hongjian - THOMPSON, Michael L. Carbon and nitrogen forms in soil organic matter influenced by incorporated wheat and corn residues. In SOIL SCIENCE AND PLANT NUTRITION. ISSN 0038-0768, 2017, vol. 63, no. 4, pp. 377-387., Registrované v: WOS

3. [1.1] CHUA, Lynn - HEAD, Kerry - THOMAS, Paul - STUART, Barbara. FTIR and Raman microscopy of organic binders and extraneous organic materials on painted ceremonial objects from the Highlands of Papua New Guinea. In *MICROCHEMICAL JOURNAL*. ISSN 0026-265X, 2017, vol. 134, no., pp. 246-256., Registrované v: WOS
4. [1.1] COMINO, Francisco - ARANDA, Victor - DOMINGUEZ-VIDAL, Ana - AYORA-CANADA, Maria Jose. Thermal destruction of organic waste hydrophobicity for agricultural soils application. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2017, vol. 202, no., pp. 94-105., Registrované v: WOS
5. [1.1] DONG, Xinliang - LI, Guitong - LIN, Qimei - ZHAO, Xiaorong. Quantity and quality changes of biochar aged for 5 years in soil under field conditions. In *CATENA*. ISSN 0341-8162, 2017, vol. 159, no., pp. 136-143., Registrované v: WOS
6. [1.1] EL FELLS, Loubna - ZAMAMA, Mohamed - AGUELMOUS, Anas - EL HAYANY, Bouchra - EL MEZOUARI EL GLAOU, Ghizlen - BENKSIM, Abdelhafid - RAHHOU, Ilyesse - MOUNIR, Abdelfetah - KHAJMI, Hassan - RIHANI, Mohammed - HAFIDI, Mohamed. Assessment of organo-mineral fraction during co-composting of sewage sludge-lignocellulosic waste by XRD and FTIR analysis. In *MOROCCAN JOURNAL OF CHEMISTRY*. ISSN 2351-812X, 2017, vol. 5, no. 4, pp. 730-739., Registrované v: WOS
7. [1.1] PAROLO, Maria Eugenia - SAVINI, Monica Claudia - LOEWY, Ruth Miriam. Characterization of soil organic matter by FT-IR spectroscopy and its relationship with chlorpyrifos sorption. In *JOURNAL OF ENVIRONMENTAL MANAGEMENT*. ISSN 0301-4797, 2017, vol. 196, no., pp. 316-322., Registrované v: WOS
8. [1.1] ZHANG, Man - CHENG, Gong - FENG, Hao - SUN, Benhua - ZHAO, Ying - CHEN, Haixin - CHEN, Jing - DYCK, Miles - WANG, Xudong - ZHANG, Jianguo - ZHANG, Afeng. Effects of straw and biochar amendments on aggregate stability, soil organic carbon, and enzyme activities in the Loess Plateau, China. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 11, pp. 10108-10120., Registrované v: WOS
9. [1.1] ZHANG, Zhe - LIU, Congmin - LIU, Wei - DU, Xu - CUI, Yong - GONG, Jian - GUO, Hua - DENG, Yulin. Direct conversion of sewage sludge to electricity using polyoxometalate catalyzed flow fuel cell. In *ENERGY*. ISSN 0360-5442, 2017, vol. 141, no., pp. 1019-1026., Registrované v: WOS
10. [1.2] DEEPAYAN, Priyadarshi - KARAR, Paul Kakoli. Utilising FTIR and Gas chromatograph for optimizing lipid extraction for biodiesel production from domestic sewage sludge and food waste. In *Research Journal of Chemistry and Environment*. ISSN 09720626, 2017-08-01, 21, 8, pp. 26-36., Registrované v: SCOPUS

ADCA679 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. (3.628 - IF2011). (2012 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] FLACH, Michel Vinicius - SEIBT, Ellen - SCHNEIDER, Eduardo Luis - DE LIMA, Viviane - SOLDI, Valdir - ROBINSON, Luiz Carlos - BIANCHIN, Liane - JAHNO, Vanusca Dalosto. Recycling Footwear Industry Waste and Evaluation the Deterioration in Soil. In *REVISTA VIRTUAL DE QUIMICA*. ISSN 1984-6835, 2017, vol. 9, no. 6, pp. 2178-2192., Registrované v: WOS

ADCA680 ŠIMKOVIC, Ivan - LASZLO, J.A. Preparation of ion exchangers from bagasse by crosslinking with epichlorohydrin-imidazole. In *Journal of Applied Polymer Science*, 1997, vol. 64, p. 2561-2566. (0.934 - IF1996). (1997 - Current Contents). ISSN 0021-8995.

Citácie:

1. [1.1] GOTO, Tatsuru - DOLPHEN, Rujira - AMANO, Yoshimasa - THIRAVETTYAN, Paitip - MACHIDA, Motoi. Efficient nitrate removal by Ca-treated activated carbon derived from agricultural residues. In *DESALINATION AND WATER TREATMENT*. ISSN 1944-3994, 2017, vol. 59, no., pp. 287-294., Registrované v: WOS

ADCA681 ŠIMKOVIC, 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. (1.604 - IF2011). ISSN 1388-6150.

Citácie:

1. [1.1] ZHAO, H. F. - SHA, L. Z. SYNERGISTIC EFFECT OF NANO-TiO₂, AMMONIUM POLYPHOSPHATE AND DIATOMITE TERNARY SYSTEM ON FLAME RETARDANCY AND SMOKE SUPPRESSION OF FILLED PAPER. In *DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES*. ISSN 1842-3582, 2017, vol. 12, no. 2, pp. 473-481., Registrované v: WOS
2. [1.2] ZHAO, Hui Fang - SHA, Li Zheng - ZHANG, Xue Jin - CHEN, Hua. Preparation of flame retardant and smoke suppression paper using ammonium polyphosphate (APP)-diatomite as filler. In *IPPTA: Quarterly Journal of Indian Pulp and Paper Technical Association*. ISSN 03795462,

- ADCA682 2017-06-01, 29, 2, pp. 141-147., Registrované v: SCOPUS
 ŠIMKOVIC, Ivan - VARHEGYI, G. - ANTAL, Michael J. - EBRINGEROVÁ, Anna - SZEKELY, T. - SZABO, P. Thermogravimetric mass-spectrometric characterization of the thermal decomposition of (4-O-methyl-D-glucurono)-D-xylan. In Journal of Applied Polymer Science, 1988, vol. 36, p. 721-728. ISSN 0021-8995.
 Citácie:
 1. [1.1] ASMADI, Mohd - KAWAMOTO, Haruo - SAKA, Shiro. Characteristics of softwood and hardwood pyrolysis in an ampoule reactor. In JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS. ISSN 0165-2370, 2017, vol. 124, no., pp. 523-535., Registrované v: WOS
 2. [1.2] Wang, S., & Luo, Z. (2017). In Pyrolysis of Biomass (Walter de Gruyter, pp. 1-255), Registrované v: SCOPUS
- ADCA683 ŠIMKOVIC, 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.
 Citácie:
 1. [1.1] RAEISI, Ahmad - SHABANIAN, Meisam - FAGHIHI, Khalil. Preparation of beta-cyclodextrin-ester network and new organo-modified LDH as dual additives of PVA: Thermal, dynamic-mechanical and migration study. In PROGRESS IN ORGANIC COATINGS. ISSN 0300-9440, 2017, vol. 111, no., pp. 402-415., Registrované v: WOS
 2. [1.1] SIMANAVICIUTE, Deimante - KLIMAVICIUTE, Rima - RUTKAITE, Ramune. Equilibrium adsorption of caffeic, chlorogenic and rosmarinic acids on cationic cross-linked starch with quaternary ammonium groups. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 788-795., Registrované v: WOS
 3. [1.1] SIMANAVICIUTE, Deimante - LIUDVINAVICIUTE, Dovile - KLIMAVICIUTE, Rima - RUTKAITE, Ramune. Cross-linked cationic starch derivatives for immobilization of chlorogenic acid. In EUROPEAN POLYMER JOURNAL. ISSN 0014-3057, 2017, vol. 93, no., pp. 833-842., Registrované v: WOS
- ADCA684 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. (1.184 - IF2000). (2001 - Current Contents). ISSN 0144-8617.
 Citácie:
 1. [1.1] COSTES, Lucie - LAOUTID, Fouad - BROHEZ, Sylvain - DUBOIS, Philippe. Bio-based flame retardants: When nature meets fire protection. In MATERIALS SCIENCE & ENGINEERING R-REPORTS. ISSN 0927-796X, 2017, vol. 117, no., pp. 1-25., Registrované v: WOS
 2. [1.1] GRABOWSKA, Beata - HODOR, Krzysztof - KACZMARSKA, Karolina - BOBROWSKI, Artur - KURLETO-KOZIOL, Zaneta - FISCHER, Carolin. Thermal analysis in foundry technology Part 2. TG-DTG-DSC, TG-MS and TG-IR study of the new class of polymer binders BioCo. In JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. ISSN 1388-6150, 2017, vol. 130, no. 1, pp. 301-309., Registrované v: WOS
- ADCA685 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. (3.916 - IF2013). (2014 - Current Contents). ISSN 0144-8617.
 Citácie:
 1. [1.1] RAMOS, Ana - SOUSA, Sonia - EVTUGUIN, Dmitry V. - GARNELAS, Jose A. F. Functionalized xylans in the production of xylan-coated paper laminates. In REACTIVE & FUNCTIONAL POLYMERS. ISSN 1381-5148, 2017, vol. 117, no., pp. 89-96., Registrované v: WOS
 2. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
 3. [1.2] GABRIEL, Lars - HEINZE, Thomas. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. In Current Advances in Biopolymer Processing and Characterization, 2017-01-01, pp. 49-75., Registrované v: SCOPUS
- ADCA686 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.
 Citácie:
 1. [1.1] LU, Yingshuang - THOMAS, Leonard C. - JERRELL, John P. - CADWALLADER, Keith R. - SCHMIDT, Shelly J. Investigating the thermal decomposition differences between beet and cane sucrose sources. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION.

- ISSN 2193-4126, 2017, vol. 11, no. 4, pp. 1640-1653., Registrované v: WOS
2. [1.1] MATOS, Juan - MIRALLES-CUEVAS, Sara - RUIZ-DELGADO, Ana - OLLER, Isabel - MALATO, Sixto. Development of TiO₂-C photocatalysts for solar treatment of polluted water. In CARBON. ISSN 0008-6223, 2017, vol. 122, no., pp. 361-373., Registrované v: WOS
3. [1.1] NGUYEN, Ha T. - VAN DER FELS-KLERX, H. J. (Ine) - VAN BOEKEL, M. A. J. S. Acrylamide and 5-hydroxymethylfurfural formation during biscuit baking. Part II: Effect of the ratio of reducing sugars and asparagine. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 230, no., pp. 14-23., Registrované v: WOS
- ADCA687 ŠIMKOVIC, Ivan - TRACZ, Adam - KELNAR, Ivan - UHĽIARIKOVÁ, Iveta - MENDICHI, Raniero. Quaternized and sulfated xylan derivative films. In Carbohydrate Polymers, 2014, vol. 99, p. 356-364. (3.916 - IF2013). (2014 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] AZEVEDO DE LUCENA, Camilla Aquino - DA COSTA, Silvana Cartaxo - DE ARAUJO ELEAMEN, Giovanna Rodrigues - DE MOURA MENDONCA, Elisangela Afonso - OLIVEIRA, Elquio Eleamen. Development of xylan and xylan/gelatin biofilms for production of biodegradable packages. In POLIMEROS-CIENCIA E TECNOLOGIA. ISSN 0104-1428, 2017, vol. 27, no., pp. 35-41., Registrované v: WOS
2. [1.1] SCHNELL, Carla N. - GALVAN, Maria V. - PERESIN, Maria S. - INALBON, Maria C. - VARTIAINEN, Jari - ZANUTTINI, Miguel A. - MOCCHIUTTI, Paulina. Films from xylan/chitosan complexes: preparation and characterization. In CELLULOSE. ISSN 0969-0239, 2017, vol. 24, no. 10, pp. 4393-4403., Registrované v: WOS
3. [1.2] CHEN, Xiaofeng - REN, Junli - LIU, Chuanfu - PENG, Feng - SUN, Runcang. Xylan polysaccharide fabricated into biopackaging films. In Biopackaging, 2017-01-01, pp. 257-287., Registrované v: SCOPUS
- ADCA688 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.
- Citácie:
1. [1.1] MORAL, Ana - AGUADO, Roberto - JARABO, Rocio - TIJERO, Antonio. Cationized fibers from pine kraft pulp: advantages of refining before functionalization. In HOLZFORSCHUNG. ISSN 0018-3830, 2017, vol. 71, no. 11, pp. 843-851., Registrované v: WOS
- ADCA689 ŠIMKOVIC, Ivan - NUNEZ, Alberto - STRAHAN, Gary D. - YADAV, Madhav P. - MENDICHI, Raniero - HICKS, Kevin B. Fractionation of sugar beet pulp by introducing ion-exchange groups. Gary D. Strahan, Madhav P. Yadav, Raniero Mendichi, Kevin B. Hicks. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides, 2009, vol.78, s.806-812. (2.644 - IF2008). ISSN 0144-8617.
- Citácie:
1. [1.1] KHAN, Ruhul A. - SALEM, Hayder J. - KOREHEI, Reza - MARTINEZ, D. Mark - OLSON, James A. APPLICATION OF FRACTIONATED BLEACHED PULP FIBRES ON SODIUM ALGINATE FILMS. In CANADIAN JOURNAL OF CHEMICAL ENGINEERING. ISSN 0008-4034, 2017, vol. 95, no. 1, pp. 33-38., Registrované v: WOS
2. [1.2] XIAO, Min - YI, Jian Yong - BI, Jin Feng - LV, Jian - ZHOU, Lin Yan - ZHOU, Mo. Influence of Different Dehydration Processes on the Texture and Pectin Characteristics of Apple Chips. In Modern Food Science and Technology. ISSN 16739078, 2017-07-20, 33, 7, pp., Registrované v: SCOPUS
- ADCA690 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. [1.2] GABRIEL, L. - HEINZE, T. Xylans: Biopolymers for the design of highly engineered polysaccharide derivatives with promising properties. (2017) Current Advances in Biopolymer Processing and Characterization, p. 49-75., Registrované v: Scopus
- ADCA691 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. (1.072 - IF2005). (2006 - Current Contents). ISSN 0021-8995.
- Citácie:
1. [1.1] SASITHORN, S. - CHALERMSINSUWAN, B. - PIUMSOMBOON, P. Artificial neural network model for the prediction of kinetic parameters of biomass pyrolysis from its constituents. In FUEL. ISSN 0016-2361, APR 1 2017, vol. 193, p. 142-158., Registrované v: WOS
- ADCA692 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - ŠOLTĚS, 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. (0.987 - IF1999). (2000 - Current Contents). ISSN 0144-8617.

Citácie:

1. [1.1] COZIKOVA, D. - SILOVA, T. - MORAVCOVA, V. - SMEJKALOVA, D. - PEPELIAEV, S. - VELEBNY, V. - HERMANNOVA, M. Preparation and extensive characterization of hyaluronan with narrow molecular weight distribution. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 160, p. 134-142., Registrované v: WOS

2. [1.2] VILDANOVA, R.R. - SIGAEVA, N.N. - KUKOVINETS, O.S. - VOLODINA, V.P. - SPIRIKHIN, L.V. - ZAIDULLIN, I.S. - KOLESOV, S.V. Modification of chitosan and hyaluronic acid to obtain sustainable hydrogels. (Book Chapter). In PHYSICAL CHEMISTRY FOR THE CHEMICAL AND BIOCHEMICAL SCIENCES. Apple Academic Press, 2016, p. 13-30. ISBN 978-177188289-7; 978-177188149-4, Registrované v: SCOPUS

ADCA693 ŠIMO, Ondrej - RYBÁR, Alfonz - ALFOLDI, Juraj. New (c,d)-fused purinediones: 2-Substituted 9-methyl-4,5-dihydro-6H,8H-pyrimido (1,2,3-c)purine-8,10(9H)-diones. In Synthesis, 1995, p. 837-840. ISSN 0039-7881.

Citácie:

1. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS

ADCA694 ŠIMO, Ondrej - RYBÁR, Alfonz - ALFOLDI, Juraj. 2-Triazolylpyrimido[1,2,3-cd]purine-8,10-diones via 1,3-Dipolar Cycloadditions to 2-Ethynylpyrimido[1,2,3-cd]purine-8,10-dione. In Journal of Heterocyclic Chemistry, 2000, vol. 37, p. 1033-1039. ISSN 0022-152X.

Citácie:

1. [1.1] MUZYCHKA, Lyubov V. - YAREMCHUK, Iryna O. - MUZYCHKA, Oksana V. - SMOLII, Oleg B. 7-Substituted pyrrolo[2,3-d]pyrimidines for the synthesis of new 1-deazapyrimido[1,2,3-cd]purines. In FRENCH-UKRAINIAN JOURNAL OF CHEMISTRY. ISSN 2312-3222, 2017, vol. 5, no. 2, pp. 15-23., Registrované v: WOS

ADCA695 ŠIMÚTH, Jozef. Some properties of the main protein of honeybee (Apis mellifera) royal jelly. In Apidologie, 2001, vol. 32, p. 69-80. ISSN 0044-8435.

Citácie:

1. [1.1] YANG, Wenchao - TIAN, Yuanyuan - HAN, Mingfeng - MIAO, Xiaoqing. Longevity extension of worker honey bees (Apis mellifera) by royal jelly: optimal dose and active ingredient. In PEERJ. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS

ADCA696 ŠIMÚTH, 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. (2.102 - IF2003). ISSN 0021-8561.

Citácie:

1. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In FRONTIERS IN PHARMACOLOGY. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.1] GANNABATHULA, Swapna - KRISSANSEN, Geoffrey W. - BISSON-ROWE, Liana - SKINNER, Margot - STEINHORN, Gregor - SCHLOTHAUER, Ralf. Correlation of the immunostimulatory activities of honeys with their contents of identified bioactives. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 221, no., pp. 39-46., Registrované v: WOS

3. [1.1] HARVEY, Jeffrey A. - ESSENS, Tijl A. - LAS, Rutger A. - VAN VEEN, Cindy - VISSER, Bertanne - ELLERS, Jacintha - HEINEN, Robin - GOLS, Rieta. Honey and honey-based sugars partially affect reproductive trade-offs in parasitoids exhibiting different life-history and reproductive strategies. In JOURNAL OF INSECT PHYSIOLOGY. ISSN 0022-1910, 2017, vol. 98, no., pp. 134-140., Registrované v: WOS

4. [1.1] SOARES, Sonia - AMARAL, Joana S. - OLIVEIRA, Maria Beatriz P. P. - MAFRA, Isabel. A Comprehensive Review on the Main Honey Authentication Issues: Production and Origin. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, 2017, vol. 16, no. 5, pp. 1072-1100., Registrované v: WOS

5. [1.1] TAHERIANFARD, Mahnaz - JOKANI, Saiedeh Ahmadi - KHAKSAR, Zabihollah. Royal jelly can modulate behavioral and histomorphometrical disorders caused by Parkinson's disease in rats. In PHYSIOLOGY AND PHARMACOLOGY. ISSN 2476-5236, 2017, vol. 21, no. 2, pp. 120-128., Registrované v: WOS

6. [1.1] ZHANG, Shuang - SHAO, Qiqi - GENG, Haiyang - SU, Songkun. The effect of royal jelly on the growth of breast cancer in mice. In ONCOLOGY LETTERS. ISSN 1792-1074, 2017, vol. 14, no. 6, pp. 7615-7621., Registrované v: WOS

7. [1.1] ZHANG, Shuang - SHAO, Qiqi - SHEN, Zhenhuang - SU, Songkun. Immunomodulatory response of 4T1 murine breast cancer model to camellia royal jelly. In BIOMEDICAL RESEARCH-INDIA. ISSN 0970-938X, 2017, vol. 28, no. 3, pp. 1223-1230., Registrované v: WOS

8. [1.2] *Chemical composition of royal jelly. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 181-190., Registrované v: SCOPUS*
9. [1.2] SANTOS-BUELGA, Celestino - GONZÁLEZ-PARAMÁS, Ana M. *Chemical composition of honey. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 43-82., Registrované v: SCOPUS*
10. [1.2] VIUDA-MARTOS, Manuel - PÉREZ-ALVAREZ, José A. - FERNÁNDEZ-LÓPEZ, Juana. *Royal jelly: Health benefits and uses in medicine. In Bee Products Chemical and Biological Properties, 2017-09-05, pp. 199-218., Registrované v: SCOPUS*
- ADCA697 ŠOLTÉS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - MACH, Mojmir. Associating hyaluronan derivatives: a novel horizon in viscosupplementation of osteoarthritic joints. In *Chemistry & biodiversity. - Zürich : Verlag Helvetica Chimica Acta : Wiley VCH Verlag, 2004, vol. 1, iss. 3, p. 468-472. (2004 - Current Contents). ISSN 1612-1872.*
- Citácie:
1. [1.1] ALVAREZ-LORENZO, C. - GARCÍA-GONZÁLEZ, C.A. - CONCEIRO, A. *Cyclodextrins as versatile building blocks for regenerative medicine. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2017, vol. 268, p. 269-281., Registrované v: WOS*
- ADCA698 ŠOLTÉS, 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. (1.669 - IF2005). (2006 - Current Contents). ISSN 0008-6215.*
- Citácie:
1. [1.1] COWMAN, Mary K. *Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS*
2. [1.1] JOMOVA, K. - LAWSON, M. - DROSTINOVA, L. - LAURO, P. - POPRAC, P. - BREZOVA, V. - MICHALIK, M. - LUKES, V. - VALKO, M. *Protective role of quercetin against copper(II)-induced oxidative stress: A spectroscopic, theoretical and DNA damage study. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2017, vol. 110, p. 340-350., Registrované v: WOS*
3. [1.1] KHAKINA, E.A. - KRAEVAYA, O.A. - POPOVA, M.L. - PEREGUDOV, A.S. - TROYANOV, S.I. - CHERNYAK, A.V. - MARTYNENKO, V.M. - KULIKOV, A.V. - SCHOLS, D. - TROSHIN, P.A. *Synthesis of different types of alkoxy fullerene derivatives from chlorofullerene C60Cl6. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 4, p. 773-777., Registrované v: WOS*
4. [1.1] TOLOMAN, D. - POPA, A. - STEFAN, M. - PANA, O. - SILIPAS, T.D. - MACAVEI, S. - BARBU-TUDORAN, L. *Impact of Gd ions from the lattice of TiO2 nanoparticles on the formation of reactive oxygen species during the degradation of RhB under visible light irradiation. In MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING. ISSN 1369-8001, 2017, vol. 71, p. 61-68., Registrované v: WOS*
5. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. *Preliminary high performance capillary electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS*
- ADCA699 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. (3.618 - IF2005). (2006 - Current Contents). ISSN 1525-7797.*
- Citácie:
1. [1.1] BOHAUMILITZKY, L. - HUBER, A.K. - STORK, E.M. - WENGERT, S. - WOELFL, F. - BOEHM, H. *A Trickster in disguise: Hyaluronan's ambivalent roles in the matrix. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, 2017, vol. 7, article number 242., Registrované v: WOS*
2. [1.1] HA, C.W. - PARK, Y.B. - CHOI, C.H. - KYUNG, H.S. - LEE, J.H. - YOO, J.D. - YOO, J.H. - CHOI, C.H. - KIM, C.W. - KIM, H.C. - OH, K.J. - BIN, S.I. - LEE, M.C. *Efficacy and safety of single injection of cross-linked sodium hyaluronate vs. three injections of high molecular weight sodium hyaluronate for osteoarthritis of the knee: a double-blind, randomized, multi-center, non-inferiority study. In BMC MUSCULOSKELETAL DISORDERS. ISSN 1471-2474, 2017, vol. 18, article number 223., Registrované v: WOS*
3. [1.1] KAVASI, R.M. - BERDIKI, A. - SPYRIDAKI, I. - CORSINI, E. - TSATSAKIS, A. - TZANAKAKIS, G. - NIKITOVIC, D. *HA metabolism in skin homeostasis and inflammatory disease. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2017, vol. 101, p. 128-138., Registrované v: WOS*
4. [1.1] LEE, Y.L. - LIN, K.L. - CHUANG, S.M. - LEE, Y.C. - LU, M.C. - WU, B.N. - WU, W.J. -

- YUAN, S.S.F. - HO, W.T. - JUAN, Y.S. Elucidating mechanisms of bladder repair after hyaluronan instillation in ketamine-induced ulcerative cystitis in animal model. In *AMERICAN JOURNAL OF PATHOLOGY*. ISSN 0002-9440, 2017, vol. 187, no. 9, p. 1945-1959., Registrované v: WOS
5. [1.1] LIU, C.X. - BAE, K.H. - YAMASHITA, A. - CHUNG, J.E. - KURISAWA, M. Thiol-mediated synthesis of hyaluronic acid-epigallocatechin-3-O-gallate conjugates for the formation of injectable hydrogels with free radical scavenging property and degradation resistance. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 10, p. 3143-3155., Registrované v: WOS
6. [1.1] NASTASE, M.V. - JANICOVA, A. - WYGRECKA, M. - SCHAEFER, L. Signaling at the crossroads: Matrix-derived proteoglycan and reactive oxygen species signaling. In *ANTIOXIDANTS & REDOX SIGNALING*. ISSN 1523-0864, 2017, vol. 27, no. 12, p. 855-873., Registrované v: WOS
7. [1.1] SAPUDOM, J. - ULLM, F. - MARTIN, S. - KALBITZER, L. - NAAB, J. - MOLLER, S. - SCHNABELRAUCH, M. - ANDEREGG, U. - SCHMIDT, S. - POMPE, T. Molecular weight specific impact of soluble and immobilized hyaluronan on CD44 expressing melanoma cells in 3D collagen matrices. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2017, vol. 50, p. 259-270., Registrované v: WOS
8. [1.1] SELEGARD, R. - ARONSSON, C. - BROMMESSON, C. - DANMARK, S. - AILI, D. Folding driven self-assembly of a stimuli-responsive peptide-hyaluronan hybrid hydrogel. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, article number 7013., Registrované v: WOS
9. [1.1] VASILESCU, A. - GHEORGHIU, M. - PETEU, S. Nanomaterial-based electrochemical sensors and optical probes for detection and imaging of peroxynitrite: a review. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 3, p. 649-675., Registrované v: WOS
10. [1.2] ABBRUZZESE, F. - BASOLI, F. - COSTANTINI, M. - GIANNITELLI, S.M. - GORI, M. - MOZETIC, P. - RAINER, A. - TROMBETTA, M. Hyaluronan: An overview. In *JOURNAL OF BIOLOGICAL REGULATORS AND HOMEOSTATIC AGENTS*. ISSN 0393-974X, E-ISSN 1724-6083, 2017, vol. 31, no. 4, p. 9-22., Registrované v: SCOPUS
11. [1.2] DE LA LUZ CÁDIZ GURREA, M. - PARDO, E.A. - ROMÁN, D.A. - ARROYO, S.F. - MOLINA, V.M. - ROCHE, E. - CARRETERO, A.S. Bioactive compounds from lippia citriodora: Application in diseases prevention. (Book Chapter) In *OCCURRENCES, STRUCTURE, BIOSYNTHESIS, AND HEALTH BENEFITS BASED ON THEIR EVIDENCES OF MEDICINAL PHYTOCHEMICALS IN VEGETABLES AND FRUITS*. Nova Science Publish., 2017, vol. 7, p. 183-220. ISBN: 978-153612005-9; 978-153611982-4, Registrované v: SCOPUS
12. [1.2] HALAKE, K. - LEE, J. Functional hyaluronic acid conjugates based on natural polyphenols exhibit antioxidant, adhesive, gelation, and self-healing properties. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*. ISSN 1226-086X, 2017, vol. 54, p. 44-51., Registrované v: SCOPUS
13. [1.2] PAINULI, R. - RAGHAV, S. - KUMAR, D. Biopolymers: Structure, features and applications. (Book Chapter). In *BIOPOLYMERS: STRUCTURE, PERFORMANCE AND APPLICATIONS*. Nova Science Publish., 2017, p. 247-270. ISBN 978-153611885-8; 978-153611846-9, Registrované v: SCOPUS

ADCA700 ŠOLTÉS, 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. (3.664 - IF2006). (2007 - Current Contents). ISSN 1525-7797.

Citácie:

1. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74*. ISSN 0065-2318, 2017, vol. 74, p. 1-59., Registrované v: WOS

ADCA701 ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - MENDICHI, Raniero - VOLPI, Nikola - SASINKOVÁ, Vlasta - GEMEINER, Peter. Degradation of high-molar-mass hyaluronan by an oxidative system comprising ascorbate, Cu(II), and hydrogen peroxide: inhibitory action of antiinflammatory drugs - naproxen and acetylsalicylic acid. In *Journal of Pharmaceutical and Biomedical Analysis*, 2007, vol. 44, p. 1056-1063. (2.032 - IF2006). ISSN 0731-7085.

Citácie:

1. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74*. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS

ADCA702 ŠOLTÉS, Ladislav - STANKOVSKÁ, Monika - BREZOVÁ, Vlasta - SCHILLER, Jürgen - ARNHOLD, Juergen - KOGAN, Grigorij - GEMEINER, Peter. Hyaluronan degradation by copper(II) chloride and ascorbate: rotational viscometric, EPR spin-trapping, and MALDI-TOF mass

spectrometric investigations. In *Carbohydrate Research*, 2006, vol. 341, no. 17, p. 2826-2834. (1.669 - IF2005). (2006 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] COWMAN, Mary K. *Hyaluronan and Hyaluronan Fragments*. In *ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY*, VOL 74. ISSN 0065-2318, 2017, vol. 74, no., pp. 1-59., Registrované v: WOS
2. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. *Preliminary high performance capillary electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions*. In *ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH*. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

ADCA703

ŠPÁNIKOVÁ, Silvia - BIELY, Peter. *Glucuronoyl esterase - Novel carbohydrate produced by Schizophyllum commune*. In *FEBS Letters*, 2006, vol. 580, p. 4597-4601. ISSN 1873-3468.

Citácie:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. *A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] DA SILVA, Ronivaldo Rodrigues - PEDEZZI, Rafael - SOUTO, Tatiane Beltrami. *Exploring the bioprospecting and biotechnological potential of white-rot and anaerobic Neocallimastigomycota fungi: peptidases, esterases, and lignocellulolytic enzymes*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 8, pp. 3089-3101., Registrované v: WOS
3. [1.1] DE SANTI, Concetta - GANI, Osman Absm - HELLAND, Ronny - WILLIAMSON, Adele. *Structural insight into a CE15 esterase from the marine bacterial metagenome*. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
4. [1.1] DILOKPIPOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. *Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization*. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
5. [1.1] Group Author(s): Uniprot Consortium. D8QLP9. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: WOS
6. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. *Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
7. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. *Gene expression metadata analysis reveals molecular mechanisms employed by Phanerochaete chrysosporium during lignin degradation and detoxification of plant extractives*. In *CURRENT GENETICS*. ISSN 0172-8083, 2017, vol. 63, no. 5, pp. 877-894., Registrované v: WOS
8. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. *Cultivation of Podospora anserina on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis*. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
9. [1.1] SORNLAKE, Warasirin - RATTANAPHANJAK, Phatcharamon - CHAMPREDA, Verawat - EURWILAICHITR, Lily - KITTISENACHAI, Suthathip - ROYTRAKUL, Sittiruk - FUJII, Tatsuya - INOUE, Hiroyuki. *Characterization of cellulolytic enzyme system of Schizophyllum commune mutant and evaluation of its efficiency on biomass hydrolysis*. In *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*. ISSN 0916-8451, 2017, vol. 81, no. 7, pp. 1289-1299., Registrované v: WOS

ADCA704

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. (2.135 - IF2006). ISSN 0302-8933.

Citácie:

1. [1.1] AGGER, Jane W. - BUSK, Peter K. - PILGAARD, Bo - MEYER, Anne S. - LANGE, Lene. *A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition*. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. *Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS

ADCA705

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. (1.659 - IF2008). (2009 - Current Contents). ISSN 1612-1872.

Citácie:

1. [1.2] CHO, Sung Hwan - NGUYEN, Cuong The - CHOI, Jeongmin - STACEY, Gary. *Molecular mechanism of plant recognition of extracellular ATP*. In *Advances in Experimental Medicine and Biology*. ISSN 00652598, 2017-01-01, 1051, pp. 233-253., Registrované v: SCOPUS

ADCA706

ŠTEFUCA, V. - VOŠTIAR, I. - ŠEFCOVIČOVÁ, Jana, Blahutová - KATRLÍK, Jaroslav - MASTIHUBA, Vladimír - GREIFOVÁ, M. - GEMEINER, Peter. Development of enzyme flow calorimeter system for monitoring of microbial glycerol conversion. In *Applied Microbiology and Biotechnology*, 2006, vol. 72, p. 1170-1175. (2.586 - IF2005). ISSN 0175-7598.

Citácie:

1. [1.1] VAN GRINSVEN, B. - BETLEM, K. - CLEIJ, T. J. - BANKS, C. E. - PEETERS, M. *Evaluating the potential of thermal read-out techniques combined with molecularly imprinted polymers for the sensing of low-weight organic molecules*. In *JOURNAL OF MOLECULAR RECOGNITION*. ISSN 0952-3499, 2017, vol. 30, no. 1, pp., Registrované v: WOS

ADCA707

ŠTEFUCA, V. - GEMEINER, Peter - KURILLOVÁ, Ľubica - DANTZENBERG, H. - POLAKOVIČ, M. - BÁLEŠ, V. Polyelectrolyte complex capsules as a material for enzyme immobilization. In *Applied Biochemistry and Biotechnology*, 1991, vol. 30, p. 313-324. ISSN 0273-2289.

Citácie:

1. [1.1] KUBELBECK, Sonja - MIKHAEL, Jules - SCHOOF, Sebastian - ANDRIEU-BRUNSEN, Annette - BAIER, Grit. *Immobilization of amylase in polyelectrolyte complexes*. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 27, pp., Registrované v: WOS

ADCA708

ŠUCHOVÁ, Katarína, Kolenová - RYABOVÁ, Olena - VRŠANSKÁ, Mária - BIELY, Peter. Inverting character of family GH115 α -glucuronidases. In *FEBS Letters*, 2010, vol. 584, p. 4063-4068. ISSN 1873-3468.

Citácie:

1. [1.1] RHEE, Mun Su - SAWHNEY, Neha - KIM, Young Sik - RHEE, Hyun Jee - HURLBERT, Jason C. - ST JOHN, Franz J. - NONG, Guang - RICE, John D. - PRESTON, James F. *GH115 alpha-glucuronidase and GH11 xylanase from Paenibacillus sp JDR-2: potential roles in processing glucuronoxylans*. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 4, pp. 1465-1476., Registrované v: WOS
2. [1.2] MONCLARO, Antonielle Vieira - FILHO, Edivaldo Ximenes Ferreira. *The role of α -glucuronidases in the deconstruction of plant cell wall structure*. In *Fungal Enzymes*, 2016-04-19, pp. 280-293., Registrované v: SCOPUS

ADCA709

ŠUCHOVÁ, Katarína, Kolenová - 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.

Citácie:

1. [1.1] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. *Industrial Enzymes: Xylanases*. In *CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: PRODUCTION, ISOLATION AND PURIFICATION OF INDUSTRIAL PRODUCTS*, 2017, vol., no., pp. 127-148., Registrované v: WOS
2. [1.2] THOMAS, L. - JOSEPH, A. - SINGHANIA, Reeta R. - PATEL, A. K. - PANDEY, A. *Industrial Enzymes: Xylanases*. In *Current Developments in Biotechnology and Bioengineering: Production, Isolation and Purification of Industrial Products*, 2016-09-16, pp. 127-148., Registrované v: SCOPUS

ADCA710

ŠUCHOVÁ, Katarína, Kolenová - VRŠANSKÁ, Mária - BIELY, Peter. Mode of action of endo-beta-1,4-xylanases of families 10 and 11 on acidic xylooligosaccharides. In *Journal of Biotechnology*, 2006, vol. 121, p. 338-345. ISSN 0168-1656.

Citácie:

1. [1.1] EL ENSHASY, Hesham Ali - KANDIYIL, Subeesh Kunhi - MALEK, Roslinda - OTHMAN, Nor Zalina. *Microbial Xylanases: Sources, Types, and Their Applications*. In *MICROBIAL ENZYMES IN BIOCONVERSIONS OF BIOMASS*. ISSN 2363-7609, 2016, vol. 3, no., pp. 151-213., Registrované v: WOS
2. [1.1] FLORES, C. A. - WILLIAMS, M. P. - SMITH, K. - PIENIAZEK, J. - LATHAM, R. - WANG, J. J. - TYUS, J. - LEE, J. T. *Evaluation of a thermotolerant xylanase on broiler growth performance and dietary ileal digestible energy value*. In *JOURNAL OF APPLIED POULTRY RESEARCH*. ISSN 1056-6171, 2017, vol. 26, no. 1, pp. 60-71., Registrované v: WOS
3. [1.1] HASSAN, Ali Saleh - HOUSTON, Kelly - LAHNSTEIN, Jelle - SHIRLEY, Neil - SCHWERDT, Julian G. - GIDLEY, Michael J. - WAUGH, Robbie - LITTLE, Alan - BURTON, Rachel A. *A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain*. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS

4. [1.1] KOSIK, Ondrej - POWERS, Stephen J. - CHATZIFRAGKOU, Afroditi - PRABHAKUMARI, Parvathy Chandran - CHARALAMPOPOULOS, Dimitris - HESS, Linde - BROSNAN, James - SHEWRY, Peter R. - LOVEGROVE, Alison. *Changes in the arabinoxylan fraction of wheat grain during alcohol production*. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 221, no., pp. 1754-1762., Registrované v: WOS
 5. [1.1] LIU, Ming-qi - WENG, Xiao-yan - WANG, Qian - HUO, Wen-kang - XU, Xin. *Recombinant Thermostable Thermomonospora fusca TF Endo-xylanase A and Its Immobilization on Modified Mesoporous SiO₂ Microspheres for Manufacturing Xylooligosaccharides*. In *CATALYSIS LETTERS*. ISSN 1011-372X, 2017, vol. 147, no. 3, pp. 765-772., Registrované v: WOS
 6. [1.1] MECHELKE, M. - KOECK, D. E. - BROEKER, J. - ROESSLER, B. - KRABICHLER, F. - SCHWARZ, W. H. - ZVERLOV, V. V. - LIEBL, W. *Characterization of the arabinoxylan-degrading machinery of the thermophilic bacterium Herbinix hemicellulosilytica-Six new xylanases, three arabinofuranosidases and one xylosidase*. In *JOURNAL OF BIOTECHNOLOGY*. ISSN 0168-1656, 2017, vol. 257, no., pp. 122-130., Registrované v: WOS
 7. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mangan. *Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans*. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS
- ADCA711 ŠUNDERIČ, Miloš - HOLAZOVÁ, Alena, Šedivá - ROBAJAC, Dragana - MILJUŠ, Goran - GEMEINER, Peter - NEDIĆ, 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. (1.429 - IF2015). (2016 - Current Contents). ISSN 0885-4513.
- Citácie:
1. [1.1] HASHIM, Onn Haji - JAYAPALAN, Jaime Jacqueline - LEE, Cheng-Siang. *Lectins: an effective tool for screening of potential cancer biomarkers*. In *PEERJ*. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
 2. [1.1] POIROUX, Guillaume - BARRE, Annick - VAN DAMME, Els J. M. - BENOIST, Herve - ROUGE, Pierre. *Plant Lectins Targeting O-Glycans at the Cell Surface as Tools for Cancer Diagnosis, Prognosis and Therapy*. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 6, pp., Registrované v: WOS
- ADCA712 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. (2.366 - IF2009). (2010 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] MAGID, Abdulmagid Alabdul - ABDELLAH, Anaëlle - PECHER, Virginie - PASQUIER, Laure - HARAKAT, Dominique - VOUTQUENNE-NAZABADIOKO, Laurence. *Flavonol glycosides and lignans from the leaves of Opilia amentacea*. In *PHYTOCHEMISTRY LETTERS*. ISSN 1874-3900, 2017, vol. 21, no., pp. 84-89., Registrované v: WOS
 2. [1.2] Harding, S. E., Tombs, M. P., Adams, G. G., Paulsen, B. S., Inngjerdigen, K. T., & Barsett, H. (2017). In *An Introduction to Polysaccharide Biotechnology (2nd ed.)* (CRC Press, pp. 1-225), Registrované v: SCOPUS
- ADCA713 ŠUTOVSKÁ, Martina - CAPEK, Peter - KOČMALOVÁ, Mária - PAWLACZYK, Izabela - ZACZYŇSKA, Eva - CZARNY, Anna - UHĽIARIKOVÁ, Iveta - GANCARZ, Roman - FRAŇOVÁ, Soňa. *Characterization and pharmacodynamic properties of Arnica montana complex*. In *International Journal of Biological Macromolecules*, 2014, vol. 69, p. 214-221. (3.096 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
- Citácie:
1. [1.2] SILVA, Edmundo - PEREIRA, Vanessa Fernandes - VASCONCELLOS, Luana Marotta Reis de - OLIVEIRA, Felipe Eduardo de - BRANDÃO, Adriana Aigotti Haberbeck. *Quality of bone repair in ovariectomized rats with bone lesions treated with phytotherapeutic and homeopathic Arnica montana*. In *Brazilian Dental Science*, 2017-01-01, 20, 1, pp. 25-31., Registrované v: SCOPUS
- ADCA714 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. (2.453 - IF2011). (2012 - Current Contents). ISSN 0141-8130.
- Citácie:
1. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin -

- BATSALOVA, Tsvetelina G. - DZHAMBASOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. *Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I.* In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS
2. [1.1] REYNOSO, M. A. - BRODKIEWICS, I. Y. - VILLAGRA, J. - BALDERRAMA COCA, M. E. - SANCHEZ RIERA, A. N. - VERA, N. R. *EVALUATION OF ANTITUSSIVE AND EXPECTORANT POTENTIAL OF ZIZIPHUS MISTOL FRUITS (MISTOL).* In INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH. ISSN 0975-8232, 2017, vol. 8, no. 9, pp. 3726-3733., Registrované v: WOS
3. [1.2] RAAFAT, Karim - EL-HAJ, Rawan - SHOUMAR, Dania - ALAAEDDINE, Rana - FAKHRO, Yousra - TAWIL, Natalie - SHAER, Farah - DAHER, Amani - AWADA, Natalie - SABRA, Ali - ATWI, Khoulood - KHALED, Malak - MESSI, Raneem - ABOUZAHER, Nour - HOURI, Mohamed - AL JALLAD, Samer. *Neuropathic pain: Literature review and recommendations of potential phytotherapies.* In Pharmacognosy Journal, 2017-05-01, 9, 4, pp. 425-434., Registrované v: SCOPUS
- ADCA715 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. (2.998 - IF2014). (2015 - Current Contents). ISSN 0378-8741.
Citácie:
1. [1.1] DU, Yan - WANG, Zhibin - WANG, Libo - GAO, Mingjie - WANG, Liqian - GAN, Chunli - YANG, Chunjuan. *Simultaneous Determination of Seven Phenolic Acids in Rat Plasma Using UHPLC-ESI-MS/MS after Oral Administration of Echinacea purpurea Extract.* In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 9, pp., Registrované v: WOS
2. [1.2] AHMAD, Khalid Masood - ZAFAR, Zafarullah - MIRZA, Javed Iqbal. *Effect of plant growth regulators on shoot organogenesis and somatic embryogenesis of Echinacea purpurea L.* In Pakistan Journal of Life and Social Sciences. ISSN 17274915, 2017-01-01, 15, 2, pp. 107-113., Registrované v: SCOPUS
- ADCA716 ŠUTOVSKÁ, Martina - FRAŇOVÁ, Soňa - PRISEŽŇÁKOVÁ, L. - NOSÁLOVÁ, Gabriela - TOGOLA, A. - DIALLO, D. - PAULSEN, B.S. - CAPEK, Peter. *Antitussive activity of polysaccharides isolated from Malian medicinal plants. L. Prisežňáková, Gabriela Nosálová, A. Togola, D. Diallo, B.S. Paulsen, Peter Capek.* In International Journal of Biological Macromolecules, 2009, vol.44, pp.236-239. (1.868 - IF2008). (2009 - Current Contents). ISSN 0141-8130.
Citácie:
1. [1.1] KELLO, Martin - KULIKOVA, Lucia - VASKOVA, Janka - NAGYOVA, Alexandra - MOJZIS, Jan. *Fruit Peel Polyphenolic Extract-Induced Apoptosis in Human Breast Cancer Cells Is Associated with ROS Production and Modulation of p38MAPK/Erk1/2 and the Akt Signaling Pathway.* In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2017, vol. 69, no. 6, pp. 920-931., Registrované v: WOS
2. [1.2] Harding, S. E., Tombs, M. P., Adams, G. G., Paulsen, B. S., Inngjerdingen, K. T., & Barsett, H. (2017). *In An Introduction to Polysaccharide Biotechnology (2nd ed.)* (CRC Press, pp. 1-225), Registrované v: SCOPUS
- ADCA717 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. (2.596 - IF2012). (2013 - Current Contents, WOS, SCOPUS). ISSN 0141-8130.
Citácie:
1. [1.1] Fang Caixia; Zhou Meixiang; Li Fangfang; Zhou Shoubiao; Yang Yanfang; Yang Wenbin. *Adsorption of Cr(VI) from aqueous solution by modified Solidago canadensis.* In: Huanjing Huaxue-Environmental Chemistry Vol. 35 (2016), Issue: 4 Pages: 773-782, Registrované v: WOS
2. [1.1] ZIHARE, Lauma - BLUMBERGA, Dagnija. *Insight into bioeconomy. Solidago canadensis as a valid resource. Brief review.* In INTERNATIONAL SCIENTIFIC CONFERENCE ENVIRONMENTAL AND CLIMATE TECHNOLOGIES (CONECT 2017). ISSN 1876-6102, 2017, vol. 128, no., pp. 275-280., Registrované v: WOS
- ADCA718 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - ŠUTOVSKÝ, J. - FRAŇOVÁ, Soňa - PRÍSEŽŇÁKOVÁ, 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 Prísežňáková, Peter Capek. In International Journal of Biological Macromolecules, 2009, vol.45, pp.27-32. (1.868 - IF2008). (2009 - Current Contents). ISSN 0141-8130.
Citácie:
1. [1.1] BANAEI, Mahdi - SOLEIMANY, Vahid - HAGHI, Behzad Nematdoost. *Therapeutic*

- effects of marshmallow (Althaea officinalis L.) extract on plasma biochemical parameters of common carp infected with Aeromonas hydrophila. In VETERINARY RESEARCH FORUM. ISSN 2008-8140, 2017, vol. 8, no. 2, pp. 145-153., Registrované v: WOS*
2. [1.1] KELLO, Martin - KULIKOVA, Lucia - VASKOVA, Janka - NAGYOVA, Alexandra - MOJZIS, Jan. Fruit Peel Polyphenolic Extract-Induced Apoptosis in Human Breast Cancer Cells Is Associated with ROS Production and Modulation of p38MAPK/Erk1/2 and the Akt Signaling Pathway. In NUTRITION AND CANCER-AN INTERNATIONAL JOURNAL. ISSN 0163-5581, 2017, vol. 69, no. 6, pp. 920-931., Registrované v: WOS
3. [1.1] KHAWAS, Sadhana - NOSAL', OVA, Gabriela - MAJEE, Sujay Kumar - GHOSH, Kanika - RAJA, Washim - SIVOVA, Veronika - RAY, Bimalendu. In vivo cough suppressive activity of pectic polysaccharide with arabinogalactan type II side chains of Piper nigrum fruits and its synergistic effect with piperine. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 335-342., Registrované v: WOS
4. [1.1] NAZ, Ruphi - ANIS, Mohammad - ALATAR, Abdulrahman A. Embling Production in Althaea officinalis L., Through Somatic Embryogenesis and Their Appraisal via Histological and Scanning Electron Microscopical Studies. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, 2017, vol. 182, no. 3, pp. 1182-1197., Registrované v: WOS
5. [1.2] ARAB, Atefeh - YAZDIAN-ROBATI, Rezvan - REZAEI-SERESHT, Hasan - EHTESHAM-GHARAEI, Melika - SOLTANI, Fatemeh. Evaluation of neuroprotective effect of althaea officinalis flower aqueous and methanolic extracts against H₂O₂-induced oxidative stress in PC12 cells. In Iranian Journal of Pharmaceutical Sciences. ISSN 17352444, 2017-12-01, 13, 1, pp. 49-56., Registrované v: SCOPUS
- ADCA719 ŠVEC, F. - GEMEINER, Peter. Engineering aspects of carriers for immobilized biocatalysts. In Biotechnology and genetic engineering reviews, 1995, vol. 13, p. 217-235. ISSN 0264-8725.
Citácie:
1. [1.2] SHETTY, Premalatha - JAFFER, Maleka. Chemical coupling of glucoamylase produced by Arthrobotrys conoides onto cotton cloth and Ocimum basilicum seeds and characterization of the immobilized enzyme. In Journal of Microbiology, Biotechnology and Food Sciences, 2017-01-01, 6, 5, pp. 1127-1131., Registrované v: SCOPUS
- ADCA720 ŠVITEL, J. - VOŠTIAR, I. - GEMEINER, Peter - DANIELSSON, B. Determination of citrate by FIA using immobilized Enterobacter aerogenes cells and enzyme thermistor/flow microcalorimeter detection. In Biotechnology Techniques, 1997, vol. 11, p. 917-919.
Citácie:
1. [1.1] SUN, Qiyong - TU, Jiawei - YAROSHENKO, Irina - KIRSANOV, Dmitry - LEGIN, Andrey - WANG, Ping. Enzymatic determination of urinary citrate based on flow injection system using NUV spectroscopy and PLS regression. In SENSORS AND ACTUATORS B-CHEMICAL. ISSN 0925-4005, 2017, vol. 251, no., pp. 1050-1058., Registrované v: WOS
- ADCA721 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. (2006 - Current Contents). ISSN 0141-5492.
Citácie:
1. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in Gluconobacter oxydans Based Microbial Fuel Cell. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
2. [1.1] Kamanin, S. S.; Arlyapov, V. A.; Ponamoreva, O. N.; Blokhin, I. V.; Alferov, V. A.; Reshetilov, A. N. SCREEN-PRINTED ELECTRODES MODIFIED WITH PROTEIN HYDROGEL AND BACTERIAL CELLS AS THE BASIS OF AMPEROMETRIC BIOSENSOR. In: Sensornye Sistemy Vol. 1 (2017) Issue: 2 Pages: 161-171, Registrované v: WOS
3. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by Gluconobacter oxydans Bacterial Cells. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
4. [1.1] SIEPENKOETTER, Till - SALAJ-KOSLA, Urszula - MAGNER, Edmond. The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 905-912., Registrované v: WOS
5. [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi - CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni-N-Doped Graphene Hybrids. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS

- ADCA722 TALÁBA, P. - SROKOVÁ, I. - EBRINGEROVÁ, Anna - HODÚL, P. - MARCINČIN, A. Cellulose-based biodegradable polymeric surfactant. In Journal of carbohydrate chemistry, 1997, vol. 16, p. 573-582. ISSN 0732-8303.
Citácie:
1. [1.1] NADERI, Ali - KOSCHELLA, Andreas - HEINZE, Thomas - SHIH, Kuo-Chih - NIEH, Mu-Ping - PFEIFER, Annett - CHANG, Chung-Chueh - ERLANDSSON, Johan. Sulfoethylated nanofibrillated cellulose: Production and properties. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 169, no., pp. 515-523., Registrované v: WOS
- ADCA723 TALAFOVÁ, Klaudia - NAHÁLKA, Jozef. "Lost sugars" - reality of their biological and medical applications. In Central European Journal of Biology, 2012, vol. 7, p. 777-793. (1.000 - IF2011). (2012 - Current Contents). ISSN 1895-104X.
Citácie:
1. [1.1] ROHRIG, Christoph H. - CHOI, Sharon S. H. - BALDWIN, Nigel. The nutritional role of free sialic acid, a human milk monosaccharide, and its application as a functional food ingredient. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 5, pp. 1017-1038., Registrované v: WOS
- ADCA724 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 (GNTPAB) Gene Mutations Causing Mucopolidosis Types II alfa/beta and III alfa/beta in 46 Patients. In Human Mutation, 2009, vol. 30, e956-E973. (7.033 - IF2008). (2009 - Current Contents). ISSN 1059-7794. Názov prebraný z obrazovky.
Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. Q3T906. UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/Q3T906>, Registrované v: WOS
2. [1.1] WOOD, Kirsten A. - ZAMBRANO, Regina M. - CHEEK, Bradley J. - ARCEMENT, Christopher - HAYMON, Marie - STEINKAMPF, Jessica - SAMPATH, Srirangan - HYLAND, James C. - LACASSIE, Yves. Neonatal mucopolidosis type II alpha/beta due to compound heterozygosity for a known and novel GNPTAB mutation, and a concomitant heterozygous change in SERPINF1 inherited from the mother. In CLINICAL CASE REPORTS. ISSN 2050-0904, 2017, vol. 5, no. 4, pp. 431-434., Registrované v: WOS
3. [1.1] ZRHIDRI, Abdelali - AMASDL, Saadia - LYAHYAI, Jaber - ELOUARDI, Hanane - CHKIRATE, Bouchra - RAYMOND, Laure - EGEA, Gregory - TAOUDI, Mohamed - EL MOUATASSIM, Said - SEFIANI, Abdelaziz. Next Generation Sequencing identifies mutations in GNPTG gene as a cause of familial form of scleroderma-like disease. In PEDIATRIC RHEUMATOLOGY. ISSN 1546-0096, 2017, vol. 15, no., pp., Registrované v: WOS
4. [1.2] Phung, T. L., Pourciau, C. Y., Wright, T. S., & Smoller, B. R. (2017). In Pediatric Dermatopathology (Springer, pp. 1-622), Registrované v: SCOPUS
5. [1.2] SEMYACHKINA, A. N. - VOSKOBOEVA, E. Yu - BUKINA, T. M. - BUKINA, A. M. - NIKOLAEVA, E. A. - DANTSEV, I. S. - KHARABADZE, M. N. - DAVYDOVA, Yu I. Clinical and genetic characteristics of mucopolidosis II and III types in children. In Rossiyskiy Vestnik Perinatologii i Pediatrii. ISSN 10274065, 2017-01-01, 62, 3, pp. 71-78., Registrované v: SCOPUS
- ADCA725 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. (5.854 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0021-9258.
Citácie:
1. [1.1] BHATTACHARJEE, Nicholas - FELIKS, Mikolaj - SHAIK, Md Munan - FIELD, Martin J. Catalytic Mechanism of Peptidoglycan Deacetylase: A Computational Study. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 1, pp. 89-99., Registrované v: WOS
2. [1.1] LIU, Zhanliang - GAY, Laurie M. - TUVENG, Tina R. - AGGER, Jane W. - WESTERENG, Bjorge - MATHIESEN, Geir - HORN, Svein J. - VAAJE-KOLSTAD, Gustav - VAN AALTEN, Daan M. F. - EIJSINK, Vincent G. H. Structure and function of a broadspecificity chitin deacetylase from Aspergillus nidulans FGSC A4. In SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
3. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
4. [1.1] PARTHIBAN, C. - VARUDHARASU, D. - SHANMUGAM, M. - GOPAL, P. -

RAGUNATH, C. - THOMAS, L. - NITZ, M. - RAMASUBBU, N. Structural and functional analysis of de-N-acetylase PgaB from periodontopathogen *Aggregatibacter actinomycetemcomitans*. In *MOLECULAR ORAL MICROBIOLOGY*. ISSN 2041-1006, 2017, vol. 32, no. 4, pp. 324-340., Registrované v: WOS

5. [1.1] PASARI, Nandita - ADLAKHA, Nidhi - GUPTA, Mayank - BASHIR, Zeenat - RAJACHARYA, Girish H. - VERMA, Garima - MUNDE, Manoj - BHATNAGAR, Rakesh - YAZDANI, Syed Shams. Impact of Module-X2 and Carbohydrate Binding Module-3 on the catalytic activity of associated glycoside hydrolases towards plant biomass. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS

6. [1.1] TUVENG, Tina Rise - ROTHWEILER, Ulli - UDATHA, Gupta - VAAJE-KOLSTAD, Gustav - SMALAS, Arne - EIJSINK, Vincent G. H. Structure and function of a CE4 deacetylase isolated from a marine environment. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 11, pp., Registrované v: WOS

7. [1.1] WANG, Mingyu - HOU, Jin. Biorefinery of Lignocellulosics for Biofuels and Biochemicals. In *QUALITY LIVING THROUGH CHEMURGY AND GREEN CHEMISTRY*. ISSN 2196-6982, 2016, vol., no., pp. 143-191., Registrované v: WOS

8. [1.1] WU, Hongli - XUE, Yong - LI, Hailong - GAN, Lihui - LIU, Jian - LONG, Minnan. Heterologous Expression of a New Acetyl Xylan Esterase from *Aspergillus niger* BE-2 and its Synergistic Action with Xylan-Degrading Enzymes in the Hydrolysis of Bamboo Biomass. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 1, pp. 434-447., Registrované v: WOS

9. [1.1] WU, Zhiwei - CHEN, Jing - ZHANG, Zunhao - MA, Lina - XU, Tianhui - YU, Haiye - ZHANG, Qiang - CHEN, Yuxiang. Development of *Escherichia coli* Strain with Enhanced Enzymatic Activity of Acetyl Esterase Using a Strategy of Tandem Repetitive Promoters. In *WASTE AND BIOMASS VALORIZATION*. ISSN 1877-2641, 2017, vol. 8, no. 7, pp. 2339-2348., Registrované v: WOS

10. [1.2] Wertz, J. L., Deleu, M., Coppée, S., & Richel, A. (2017). In *Hemicelluloses and Lignin in Biorefineries* (CRC Press, pp. 1-308), Registrované v: SCOPUS

ADCA726

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. (4.250 - IF2012). (2013 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] GARCIA-HUANTE, Yolanda - CAYETANO-CRUZ, Maribel - SANTIAGO-HERNANDEZ, Alejandro - CANO-RAMIREZ, Claudia - MARSCH-MORENO, Rodolfo - CAMPOS, Jorge E. - AGUILAR-OSORIO, Guillermo - BENITEZ-CARDOZA, Claudia G. - TREJO-ESTRADA, Sergio - EUGENIA HIDALGO-LARA, Maria. The thermophilic biomass-degrading fungus *Thielavia terrestris* Co3Bag1 produces a hyperthermophilic and thermostable beta-1,4-xylanase with exo- and endo-activity. In *EXTREMOPHILES*. ISSN 1431-0651, 2017, vol. 21, no. 1, pp. 175-186., Registrované v: WOS

2. [1.1] MANGAN, David - CORNAGGIA, Claudio - LIADOVA, Agnija - MCCORMACK, Niall - IVORY, Ruth - MCKIE, Vincent A. - ORMEROD, Aaron - MCCLEARY, Barry V. Novel substrates for the automated and manual assay of endo-1,4-beta-xylanase. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 445, no., pp. 14-22., Registrované v: WOS

3. [1.1] RAMONI, Jonas - MARCHETTI-DESCHMANN, Martina - SEIDL-SEIBOTH, Verena - SEIBOTH, Bernhard. *Trichoderma reesei* xylanase 5 is defective in the reference strain QM6a but functional alleles are present in other wild-type strains. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 10, pp. 4139-4149., Registrované v: WOS

4. [1.1] ROSALES-CALDERON, Oscar - TRAJANO, Heather L. - POSARAC, Dusko - DUFF, Sheldon J. B. Enzyme Recycling by Adsorption during Hydrolysis of Oxygen-Delignified Wheat Straw. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 11, pp. 9701-9708., Registrované v: WOS

5. [1.2] CARLI, Sibeli - MELEIRO, Luana Parras - ROSA, Jose Cesar - MORAES, Luiz Alberto Beraldo - JORGE, João Atilio - MASUI, Douglas Chodi - FURRIEL, Rosa P.M. A novel thermostable and halotolerant xylanase from *Colletotrichum graminicola*. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-10-17, 133, pp. S508-S517., Registrované v: SCOPUS

6. [1.2] SUKUMARAN, Rajeev K. - ABRAHAM, Amith - MATHEW, Anil K. Enzymes for bioenergy. In *Bioresources and Bioprocess in Biotechnology*, 2017-05-26, 2, pp. 3-43., Registrované v: SCOPUS

ADCA727

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.

Citácie:

1. [1.1] BAI, Jialei - ZHANG, Xiaoyan - PENG, Yuan - HONG, Xiaodi - LIU, Yuanyuan - JIANG, Suiyi - NING, Baoan - GAO, Zhixian. Ultrasensitive sensing of diethylstilbestrol based on AuNPs/MWCNTs-CS composites coupling with sol-gel molecularly imprinted polymer as a recognition element of an electrochemical sensor. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 238, no., pp. 420-426., Registrované v: WOS
 2. [1.1] KANYONG, Prosper - KRAMPA, Francis D. - ANIWEH, Yaw - AWANDARE, Gordon A. Enzyme-based amperometric galactose biosensors: a review. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 10, pp. 3663-3671., Registrované v: WOS
 3. [1.1] MA, Li Ya - MIAO, Shan Shan - LU, Feng Fan - WU, Mei Sheng - LU, Yi Chen - YANG, Hong. Selective Electrochemical Determination of Salicylic Acid in Wheat Using Molecular Imprinted Polymers. In *ANALYTICAL LETTERS*. ISSN 0003-2719, 2017, vol. 50, no. 15, pp. 2369-2385., Registrované v: WOS
 4. [1.1] MA, Ya - SHEN, Xiao-Lei - WANG, Hai-Shui - TAO, Jia - HUANG, Jian-Zhi - ZENG, Qiang - WANG, Li-Shi. MIPs-graphene nanoplatelets-MWCNTs modified glassy carbon electrode for the determination of cardiac troponin I. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 520, no., pp. 9-15., Registrované v: WOS
 5. [1.1] MA, Ya - SHEN, Xiao-Lei - ZENG, Qiang - WANG, Hai-Shui - WANG, Li-Shi. A multi-walled carbon nanotubes based molecularly imprinted polymers electrochemical sensor for the sensitive determination of HIV-p24. In *TALANTA*. ISSN 0039-9140, 2017, vol. 164, no., pp. 121-127., Registrované v: WOS
 6. [1.1] MANDANI, Sonam - MAJEE, Prativa - SHARMA, Bhagwati - SARMA, Daisy - THAKUR, Neha - NAYAK, Debasis - SARMA, Tridib K. Carbon Dots as Nanodispersants for Multiwalled Carbon Nanotubes: Reduced Cytotoxicity and Metal Nanoparticle Functionalization. In *LANGMUIR*. ISSN 0743-7463, 2017, vol. 33, no. 31, pp. 7622-7632., Registrované v: WOS
 7. [1.1] SHI, Xiujuan - LU, Juxiu - YIN, Hongzong - QIAO, Xuguang - XU, Zhixiang. A Biomimetic Sensor with Signal Enhancement of Ferriferrous Oxide-Reduced Graphene Oxide Nanocomposites for Ultratrace Levels Quantification of Methamidophos or Omethoate in Vegetables. In *FOOD ANALYTICAL METHODS*. ISSN 1936-9751, 2017, vol. 10, no. 4, pp. 910-920., Registrované v: WOS
 8. [1.1] SRIVASTAVA, Anup K. - DEV, Atul - KARMAKAR, Surajit. Nanosensors for Food and Agriculture. In *NANOSCIENCE IN FOOD AND AGRICULTURE 5*. ISSN 2210-4410, 2017, vol. 26, no., pp. 41-79., Registrované v: WOS
 9. [1.2] CRESCITELLI, Alessio - CONSALES, Marco - CUTOLO, Antonello - GIORDANO, Michele - CUSANO, Andrea. Multifunctional fiber-optic nanosensors for environmental monitoring. In *Optochemical Nanosensors*, 2016-04-19, pp. 513-548., Registrované v: SCOPUS
 10. [1.2] SIMATE, Geoffrey S. Biodegradable polymer-carbon nanotube composites for water and wastewater treatments. In *Handbook of Composites from Renewable Materials*, 2017-01-01, 1-8, pp. 15-33., Registrované v: SCOPUS
 11. [1.2] WANG, Kang. Enzyme immobilization on chitosan-based supports. In *Chitosan-Based Hydrogels: Functions and Applications*, 2016-04-19, pp. 339-406., Registrované v: SCOPUS
- ADCA728 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. (2.444 - IF2008). (2009 - Current Contents). ISSN 1567-5394.

Citácie:

1. [1.1] ALFEROV, S. V. - VOZCHIKOVA, S. V. - ARLYAPOV, V. A. - ALFEROV, V. A. - RESHETILOV, A. N. Competition Between Redox Mediator and Oxygen in the Microbial Fuel Cell. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 2, pp. 267-272., Registrované v: WOS
2. [1.1] ASLAN, Sema - CONGHAILE, Peter O. - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of an Osmium Redox Polymer Mediated Bioanode and Examination of its Performance in *Gluconobacter oxydans* Based Microbial Fuel Cell. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1651-1657., Registrované v: WOS
3. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *CHEMISTRYSELECT*. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
4. [1.1] KOMORI, K. - HUANG, J. - MIZUSHIMA, N. - KO, S. - TATSUMA, T. - SAKAI, Y. Controlled direct electron transfer kinetics of fructose dehydrogenase at cup-stacked carbon nanofibers. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2017, vol. 19, no. 40, pp. 27795-27800., Registrované v: WOS

5. [1.1] MILTON, Ross D. - MINTEER, Shelley D. Direct enzymatic bioelectrocatalysis: differentiating between myth and reality. In *JOURNAL OF THE ROYAL SOCIETY INTERFACE*. ISSN 1742-5689, 2017, vol. 14, no. 131, pp., Registrované v: WOS
6. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by *Gluconobacter oxydans* Bacterial Cells. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
- ADCA729 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.
- Citácie:
- [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. Advances in developing rapid, reliable and portable detection systems for alcohol. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99., Registrované v: WOS
 - [1.1] WU, Kong-Lin - JIANG, Bin-Bin - CAI, Ya-Miao - WEI, Xian-Wen - LI, Xiang-Zi - CHEONG, Weng-Chon. Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 6, pp. 1419-1428., Registrované v: WOS
 - [1.2] ASLAN, Sema - Ó CONGHAILE, Peter - LEECH, Dónal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and *Gluconobacter oxydans* DSM 2343 Cells. In *ChemistrySelect*, 2017-01-01, 2, 36, pp. 12034-12040., Registrované v: SCOPUS
 - [1.2] GONCHAR, Mykhailo - SMUTOK, Oleh - KARKOVSKA, Maria - STASYUK, Nataliya - GAYDA, Galina. Yeast-based biosensors for clinical diagnostics and food control. In *Biotechnology of Yeasts and Filamentous Fungi*, 2017-06-12, pp. 391-412., Registrované v: SCOPUS
- ADCA730 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.
- Citácie:
- [1.1] GOTA, Tatenda - CHOWDHURY, Mahabubur - OJUMU, Tunde. Non-enzymatic Fructose Sensor Based on Co₃O₄ Thin Film. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 12, pp. 2855-2862., Registrované v: WOS
 - [1.1] SIEPENKOETTER, Till - SALAJ-KOSLA, Urszula - MAGNER, Edmond. The Immobilization of Fructose Dehydrogenase on Nanoporous Gold Electrodes for the Detection of Fructose. In *CHEMELECTROCHEM*. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 905-912., Registrované v: WOS
 - [1.1] SILVA-CARRILLO, Carolina - ALONSO REYNOSO-SOTO, Edgar - PARAGUAY-DELGADO, Francisco - ALONSO-NUNEZ, Gabriel - MARIA FELIX-NAVARRO, Rosa. Synthesis of PtNPs/MWCNT Functionalized with 4-Mercaptophenylboronic Acid for an Electrochemical Sensor of Fructose. In *JOURNAL OF THE ELECTROCHEMICAL SOCIETY*. ISSN 0013-4651, 2017, vol. 164, no. 4, pp. B86-B91., Registrované v: WOS
- ADCA731 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.
- Citácie:
- [1.1] LOPEZ, Francesca - MA, Su - LUDWIG, Roland - SCHUHMANN, Wolfgang - RUFF, Adrian. A Polymer Multilayer Based Amperometric Biosensor for the Detection of Lactose in the Presence of High Concentrations of Glucose. In *ELECTROANALYSIS*. ISSN 1040-0397, 2017, vol. 29, no. 1, pp. 154-161., Registrované v: WOS
 - [1.1] SHARMA, Shiv K. - LEBLANC, Roger M. Biosensors based on beta-galactosidase enzyme: Recent advances and perspectives. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2017, vol. 535, no., pp. 1-11., Registrované v: WOS
- ADCA732 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.
- Citácie:
- [1.1] AYMARD, Chloe - BONAVENTURA, Celia - HENKENS, Robert - MOUSTY, Christine - HECQUET, Laurence - CHARMANTRAY, Franck - BLUM, Loic J. - DOUMECHE, Bastien.

- High-Throughput Electrochemical Screening Assay for Free and Immobilized Oxidases: Electrochemiluminescence and Intermittent Pulse Amperometry. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 957-966., Registrované v: WOS*
2. [1.1] KRANZ, Angela - VOGEL, Alexander - DEGNER, Ursula - KIEFLER, Ines - BOTT, Michael - USADEL, Bjoern - POLEN, Tino. High precision genome sequencing of engineered *Gluconobacter oxydans* 621H by combining long nanopore and short accurate Illumina reads. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 258, no., pp. 197-205., Registrované v: WOS
3. [1.1] ZHUANG, Meng-Yao - WANG, Cong - XU, Meng-Qiu - LING, Xiao-Min - SHEN, Jia-Jia - ZHANG, Ye-Wang. Using concanavalinA as a spacer for immobilization of E-coli onto magnetic nanoparticles. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 104, no., pp. 63-69., Registrované v: WOS
- ADCA733 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. ISSN 1388-2481.
Citácie:
1. [1.1] MA, Li Ya - MIAO, Shan Shan - LU, Feng Fan - WU, Mei Sheng - LU, Yi Chen - YANG, Hong. Selective Electrochemical Determination of Salicylic Acid in Wheat Using Molecular Imprinted Polymers. In ANALYTICAL LETTERS. ISSN 0003-2719, 2017, vol. 50, no. 15, pp. 2369-2385., Registrované v: WOS
- ADCA734 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.
Citácie:
1. [1.1] KANYONG, Prosper - KRAMPA, Francis D. - ANIWEH, Yaw - AWANDARE, Gordon A. Enzyme-based amperometric galactose biosensors: a review. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 10, pp. 3663-3671., Registrované v: WOS
- ADCA735 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. ISSN 0022-0728.
Citácie:
1. [1.1] JOHN, Torsten - VOO, Zhi Xiang - KUBEIL, Clemens - ABEL, Bernd - GRAHAM, Bim - SPICCIA, Leone - MARTIN, Lisandra L. Effects of guanidino modified aminoglycosides on mammalian membranes studied using a quartz crystal microbalance. In MEDCHEMCOMM. ISSN 2040-2503, 2017, vol. 8, no. 5, pp. 1112-1120., Registrované v: WOS
2. [1.1] KALIMUTHU, Palraj - BELAIDI, Abdel A. - SCHWARZ, Guenter - BERNHARDT, Paul V. Chitosan-Promoted Direct Electrochemistry of Human Sulfite Oxidase. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 39, pp. 9149-9159., Registrované v: WOS
3. [1.1] KALIMUTHU, Palraj - BELAIDI, Abdel A. - SCHWARZ, Guenter - BERNHARDT, Paul V. Mediated Catalytic Voltammetry of Holo and Heme-Free Human Sulfite Oxidases. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 4, pp. 947-956., Registrované v: WOS
4. [1.1] KALIMUTHU, Palraj - HAVEMEYER, Antje - CLEMENT, Bernd - KUBITZA, Christian - SCHEIDIG, Axel J. - BERNHARDT, Paul V. Human mitochondrial amidoxime reducing component (mARC): An electrochemical method for identifying new substrates and inhibitors. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2017, vol. 84, no., pp. 90-93., Registrované v: WOS
5. [1.1] KALIMUTHU, Palraj - HSIAO, Ju-Chun - NAIR, Remya Purushothaman - KAPPLER, Ulrike - BERNHARDT, Paul V. Bioelectrocatalysis of Sulfite Dehydrogenase from *Sinorhizobium meliloti* with Its Physiological Cytochrome Electron Partner. In CHEMELECTROCHEM. ISSN 2196-0216, 2017, vol. 4, no. 12, pp. 3163-3170., Registrované v: WOS
6. [1.1] ZHANG, Lingling - YE, Cui - ZHOU, Guohua - CHEN, Weizhen - XU, Xuyao - LI, Zhiguo. Effect of Surface Pretreatment on Electron Transfer of Methylene Blue Covalently Labeled Double-Stranded DNA Self-Assembled Monolayers on Gold. In INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE. ISSN 1452-3981, 2017, vol. 12, no. 7, pp. 6763-6778., Registrované v: WOS
- ADCA736 TKÁČ, Ján - GEMEINER, Peter - ŠVITEL, J. - BENIKOVSKÝ, T. - ŠTURDÍK, E. - VALA, V. - PETRUŠ, Ladislav - HRABÁROVÁ, Eva. Determination of total sugars in lignocellulose hydrolysate by a mediated *Gluconobacter oxydans* biosensor. In Analytica Chimica Acta, 2000, vol. 420, p. 1-7. ISSN 0003-2670.
Citácie:
1. [1.1] KOCH, Christin - KUCHENBUCH, Anne - KRACKE, Frauke - BERNHARDT, Paul V. - KROEMER, Jens - HARNISCH, Falk. Predicting and experimental evaluating bio-electrochemical synthesis A case study with *Clostridium kluyveri*. In BIOELECTROCHEMISTRY. ISSN 1567-5394,

- ADCA737 2017, vol. 118, no., pp. 114-122., Registrované v: WOS
TOMANOVÁ, Vladimíra - SROKOVA, 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. (1.296 - IF2010). (2011 - Current Contents). ISSN 0032-3888.
Citácie:
1. [1.1] YAN, Xinyan - ZHAI, Zhaolan - SONG, Zhanqian - SHANG, Shibin - RAO, Xiaoping. Synthesis of comb-like polymeric surfactants with a tricyclic rigid core and their use as dispersants in pymetrozine water suspension concentrates. In RSC ADVANCES. ISSN 2046-2069, 2017, vol. 7, no. 88, pp. 55741-55747., Registrované v: WOS
- ADCA738 TOMAN, Rudolf - ROSÍK, Jozef - ALFOLDI, Juraj. Regioselective methylation of methyl α -L-fucopyranoside with diazomethane in the presence of tin(II) chloride. In Carbohydrate Research, 1986, vol. 158, p. 236-244. ISSN 0008-6215.
Citácie:
1. [1.1] DAMAGER, Iben - OLSEN, Carl Erik - EGELUND, Jack - JORGENSEN, Bodil - PETERSEN, Bent Larsen - ULVSKOV, Peter - MOLLER, Birger Lindberg - MOTAWIA, Mohammed Saddik. Chemical Synthesis of L-Fucose Derivatives for Acceptor Specificity Characterisation of Plant Cell Wall Glycosyltransferases. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 3, pp. 997-1007., Registrované v: WOS
- ADCA739 TOMÁŠKA, M. - GEMEINER, Peter - MATERLÍN, I. - ŠTURDÍK, E. - HANDRÍKOVÁ, G. Calcium pectate gel beads for cell entrapment: A study on the stability of Kluyveromyces marxianus whole-cell lactase entrapped in hardened calcium pectate and calcium alginate gel beads. In Biotechnology and Applied Biochemistry, 1995, vol. 21, p. 347-356. (1995 - Current Contents). ISSN 0885-4513.
Citácie:
1. [1.1] SIMO, Guillermo - FERNANDEZ-FERNANDEZ, Encarnacion - VILA-CRESPO, Josefina - RUIPEREZ, Violeta - MANUEL RODRIGUEZ-NOGALES, Jose. Research progress in coating techniques of alginate gel polymer for cell encapsulation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 170, no., pp. 1-14., Registrované v: WOS
- ADCA740 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. ISSN 1873-3468.
Citácie:
1. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS
- ADCA741 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.
Citácie:
1. [1.1] BEZBRADICA, Dejan - COROVIC, Marija - TANASKOVIC, Sonja J. - LUKOVIC, Nevena - CAREVIC, Milica - MILIVOJEVIC, Ana - KNEZEVIC-JUGOVIC, Zorica. Enzymatic Syntheses of Esters Green Chemistry for Valuable Food, Fuel and Fine Chemicals. In CURRENT ORGANIC CHEMISTRY. ISSN 1385-2728, 2017, vol. 21, no. 2, pp. 104-138., Registrované v: WOS
2. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Lihao - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48., Registrované v: WOS
3. [1.2] GAO, Le - WANG, Min - CHEN, Shulin - ZHANG, Dongyuan. Biochemical characterization of a novel feruloyl esterase from Penicillium piceum and its application in biomass bioconversion. In Journal of Molecular Catalysis B: Enzymatic. ISSN 13811177, 2016-11-10, 133, pp. S388-S394., Registrované v: SCOPUS
- ADCA742 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.
Citácie:
1. [1.1] MILLAR, Robert - RAHMANPOUR, Rahman - YUAN, Eugenie Wei Jia - WHITE, Catharine - BUGG, Timothy D. H. Esterase EstK from Pseudomonas putida mt-2: An

- enantioselective acetyltransferase with activity for deacetylation of xylan and poly(vinylacetate). In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, 2017, vol. 64, no. 6, pp. 803-809., Registrované v: WOS*
2. [1.2] GAO, Le - WANG, Min - CHEN, Shulin - ZHANG, Dongyuan. Biochemical characterization of a novel feruloyl esterase from *Penicillium piceum* and its application in biomass bioconversion. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-11-10, 133, pp. S388-S394., Registrované v: SCOPUS
- ADCA743 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.
- Citácie:
1. [1.1] BEZBRADICA, Dejan - COROVIC, Marija - TANASKOVIC, Sonja J. - LUKOVIC, Nevena - CAREVIC, Milica - MILIVOJEVIC, Ana - KNEZEVIC-JUGOVIC, Zorica. Enzymatic Syntheses of Esters Green Chemistry for Valuable Food, Fuel and Fine Chemicals. In *CURRENT ORGANIC CHEMISTRY*. ISSN 1385-2728, 2017, vol. 21, no. 2, pp. 104-138., Registrované v: WOS
2. [1.1] CHI, D. H. - GIAP, V. D. - ANH, L. P. H. - NGHI, D. H. Feruloyl Esterase from *Alternaria tenuissima* that Hydrolyses Lignocellulosic Material to Release Hydroxycinnamic Acids. In *APPLIED BIOCHEMISTRY AND MICROBIOLOGY*. ISSN 0003-6838, 2017, vol. 53, no. 6, pp. 654-660., Registrované v: WOS
3. [1.1] WU, Hongli - LI, Hailong - XUE, Yong - LUO, Gan - GAN, Lihui - LIU, Jian - MAO, Lihao - LONG, Minnan. High efficiency co-production of ferulic acid and xylooligosaccharides from wheat bran by recombinant xylanase and feruloyl esterase. In *BIOCHEMICAL ENGINEERING JOURNAL*. ISSN 1369-703X, 2017, vol. 120, no., pp. 41-48., Registrované v: WOS
- ADCA744 TUOHY, M.G. - PULS, J. - CLAEYSSSENS, M. - VRŠANSKÁ, Mária - COUGHLAN, M.P. The xylan-degrading enzyme system of *Talaromyces emersonii* - novel enzymes with activity against aryl beta-D-xylosides and unsubstituted xylans. In *Biochemical Journal*, 1993, vol. 290, p. 515-523. (1993 - Current Contents). ISSN 0264-6021.
- Citácie:
1. [1.1] WALIA, Abhishek - GULERIA, Shiwani - MEHTA, Preeti - CHAUHAN, Anjali - PARKASH, Jyoti. Microbial xylanases and their industrial application in pulp and paper biobleaching: a review. In *3 BIOTECH*. ISSN 2190-572X, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA745 TVAROSKA, Igor - HRICOVÍNI, Miloš - PETRAKOVA, E. An attempt to derive a new Karplus-type equation of vicinal proton-carbon coupling constants for C-O-C-H segments of bonded atoms. In *Carbohydrate Research*, 1989, vol. 189, p. 359-362. ISSN 0008-6215.
- Citácie:
1. [1.1] ZHANG, Wenhui - TURNEY, Toby - MEREDITH, Reagan - PAN, Qingfeng - SERNAU, Luke - WANG, Xiacong - HU, Xiaosong - WOODS, Robert J. - CARMICHAEL, Ian - SERIANNI, Anthony S. Conformational Populations of beta-(1 > 4) O-Glycosidic Linkages Using Redundant NMR J-Couplings and Circular Statistics. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 14, pp. 3042-3058., Registrované v: WOS
- ADCA746 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. (9.907 - IF2011). (2012 - Current Contents). ISSN 0002-7863. ??? (9.907 - IF2011). (2012 - Current Contents). ISSN 0002-7863.
- Citácie:
1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
2. [1.1] SLAMOVA, Kristyna - BOJAROVA, Pavia. Engineered N-acetylhexosamine-active enzymes in glycoscience. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 8, pp. 2070-2087., Registrované v: WOS
3. [1.1] URBANOWICZ, Breeanna R. - BHARADWAJ, Vivek S. - ALAHUHTA, Markus - PENA, Maria J. - LUNIN, Vladimir V. - BOMBLE, Yannick J. - WANG, Shuo - YANG, Jeong-Yeh - TUOMIVAARA, Sami T. - HIMMEL, Michael E. - MOREMEN, Kelley W. - YORK, William S. - CROWLEY, Michael F. Structural, mutagenic and in silico studies of xyloglucan fucosylation in *Arabidopsis thaliana* suggest a water-mediated mechanism. In *PLANT JOURNAL*. ISSN 0960-

- ADCA747 7412, 2017, vol. 91, no. 6, pp. 931-949., Registrované v: WOS
 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. (5.831 - IF2012). (2013 - Current Contents). ISSN 0947-6539.
 Citácie:
 1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
- ADCA748 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] CALABRO, Kevin - KALAHROODI, Elaheh Lotfi - RODRIGUES, Daniel - DIAZ, Caridad - DE LA CRUZ, Mercedes - CAUTAIN, Bastien - LAVILLE, Remi - REYES, Fernando - PEREZ, Thierry - SOUSSI, Bassam - THOMAS, Olivier P. Poecillastrosides, Steroidal Saponins from the Mediterranean Deep-Sea Sponge Poecillastra compressa (Bowerbank, 1866). In MARINE DRUGS. ISSN 1660-3397, 2017, vol. 15, no. 7, pp., Registrované v: WOS
 2. [1.1] HASHIMOTO, Masahito - MIZUKAMI, Masato - OSUKI, Ken-ichi - FUJIWARA, Nagatoshi - SUDA, Yasuo - UCHIUMI, Toshiki. Characterization of O-antigen polysaccharide backbone derived from nitric oxide-inducing Mesorhizobium loti MAFF 303099 lipopolysaccharide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 445, no., pp. 44-50., Registrované v: WOS
 3. [1.1] HASHIMOTO, Masahito - SATOU, Rune - OZONO, Mami - INAGAWA, Hiroyuki - SOMA, Gen-Ichiro. Characterization of the O-antigen polysaccharide derived from Pantoea agglomerans IG1 lipopolysaccharide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 449, no., pp. 32-36., Registrované v: WOS
- ADCA749 TVAROŠKA, Igor - MAZEAU, K. - BLANC-MUESSER, M. - LAVAITTE, S. - DRIGUEZ, H. - TARAVEL, F.R. Karplus-type equation for vicinal carbon-proton coupling for the C-S-C-H pathway in 1-thioglycosides. In Carbohydrate Research, 1992, vol. 229, p. 225-231. (1.299 - IF1991). ISSN 0008-6215.
 Citácie:
 1. [1.1] THORSHEIM, Karin - WILLEN, Daniel - TYKESSON, Emil - STAHLE, Jonas - PRALY, Jean-Pierre - VIDAL, Sebastien - JOHNSON, Magnus T. - WIDMALM, Goran - MANNER, Sophie - ELLERVIK, Ulf. Naphthyl Thio- and Carba-xylopyranosides for Exploration of the Active Site of 1,4-Galactosyltransferase 7 (4GalT7). In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2017, vol. 23, no. 71, pp. 18057-18065., Registrované v: WOS
- ADCA750 TVAROŠKA, Igor - KOŽAR, J. - HRICOVÍNI, Miloš. Oligosaccharides in solution. Conformational analysis by NMR spectroscopy and calculation. In Computer Modeling of Carbohydrate Molecules, 1990, vol. 430, p. 162-176. ISSN 0097-6156.
 Citácie:
 1. [1.1] DEL VIGO, Enrique A. - MARINO, Carla - STORTZ, Carlos A. Exhaustive rotamer search of the C-4(1) conformation of alpha- and beta-D-galactopyranose. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 136-147., Registrované v: WOS
- ADCA751 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. (1.929 - IF2014). (2015 - Current Contents). ISSN 0008-6215.
 Citácie:
 1. [1.1] BELLA, Maros - YAN, Shi - SESTAK, Sergej - KOZMON, Stanislav - LIN, Chun-Hung - MUCHA, Jan - KOOS, Miroslav. Synthesis of a beta-D-Psicofuranosyl Sulfone and Inhibitory-Activity Evaluation Against N-Acetylglucosaminyltransferase I. In EUROPEAN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1434-193X, 2017, vol., no. 41, pp. 6179-6191., Registrované v: WOS
 2. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
 3. [1.1] DONG, Lihua - ZHANG, Shujun - LIU, Yongjun. A water-assisted nucleophilic mechanism utilized by BphD, the meta-cleavage product hydrolase in biphenyl degradation. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, 2017, vol. 76, no.,

- pp. 448-455., Registrované v: WOS
4. [1.1] LI, Zhijie - HAN, Kristina - PAK, John E. - SATKUNARAJAH, Malathy - ZHOU, Dongxia - RINI, James M. Recognition of EGF-like domains by the Notch-modifying O-fucosyltransferase POFUT1. In NATURE CHEMICAL BIOLOGY. ISSN 1552-4450, 2017, vol. 13, no. 7, pp. 757-+., Registrované v: WOS
5. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS
- ADCA752 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.
- Citácie:
1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS
- ADCA753 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] AHMADI, Sara - MANICKAMACHARI, Vijayan - HUSSAIN, Zahir - HASHIM, Rauzah. Epimeric and anomeric relationship of octyl- α -D-glucosides/galactosides: Insight from density functional theory and atom in molecules studies. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2017, vol. 1108, no., pp. 93-102., Registrované v: WOS
2. [1.1] LENOUE, Didier - DEFOIN, Albert - BEHR, Jean-Bernard. Determination of the Relative Configuration and Conformational Analysis of Five-membered N-Acyl-Iminosugars by Relevant (3)J Coupling Constants. In CHEMISTRYSELECT. ISSN 2365-6549, 2016, vol. 1, no. 6, pp. 1256-1267., Registrované v: WOS
3. [1.1] NAGARAJAN, Balaji - SANKARANARAYANAN, Nehru Viji - PATEL, Bhaumik B. - DESAI, Umesh R. A molecular dynamics-based algorithm for evaluating the glycosaminoglycan mimicking potential of synthetic, homogenous, sulfated small molecules. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 2, pp., Registrované v: WOS
4. [1.1] PAMIES, Silvana C. - PETELSKI, Andre N. - CASTRO, Eduardo A. - SOSA, Gladis L. Static and Dynamic Study of Disaccharides Trehalose, Maltose and Sucrose. In STRUCTURAL CHEMISTRY. ISSN 1040-0400, 2017, vol. 28, no. 4, pp. 911-924., Registrované v: WOS
5. [1.2] BANDARA, Mithila D. - YASOMANEE, Jagodige P. - DEMCHENKO, Alexei V. Application of Armed, Disarmed, Superarmed, and Superdisarmed Building Blocks in Stereocontrolled Glycosylation and Expeditious Oligosaccharide Synthesis. In Selective Glycosylation: Synthetic Methods and Catalysts, 2017-03-09, pp. 29-58., Registrované v: SCOPUS
- ADCA754 TVAROŠKA, Igor - BLEHA, Tomáš. Calculation of solvent effect on conformation stability and anomeric effect in dimethoxymethane. In Collection of Czechoslovak chemical communications. - Praha : Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, 1980, vol. 45, p. 1883-1895. ISSN 0010-0765.
- Citácie:
1. [1.1] BARBOSA, Ester F. G. - PEREIRA, Elsa V. - SANTOS, Angela F. S. - LAMPREIA, Isabel M. S. Conformational analysis of branched alkanes using limiting partial molar volumes. In JOURNAL OF CHEMICAL THERMODYNAMICS. ISSN 0021-9614, 2017, vol. 115, no., pp. 84-90., Registrované v: WOS
- ADCA755 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. (1.349 - IF2001). (2002 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] AHMADI, Sara - MANICKAMACHARI, Vijayan - HUSSAIN, Zahir - HASHIM, Rauzah. Epimeric and anomeric relationship of octyl- α -D-glucosides/galactosides: Insight from density functional theory and atom in molecules studies. In COMPUTATIONAL AND THEORETICAL CHEMISTRY. ISSN 2210-271X, 2017, vol. 1108, no., pp. 93-102., Registrované v: WOS
2. [1.1] DEL VIGO, Enrique A. - MARINO, Carla - STORTZ, Carlos A. Exhaustive rotamer search of the $\langle \sup C \inf \rangle$ conformation of α - and β -D-galactopyranose. In Carbohydrate Research. ISSN 00086215, 2017-01-01, 448, pp. 136-147., Registrované v:

SCOPUS

3. [1.1] GAWEDA, Karolina - PLAZINSKI, Wojciech. Pyranose ring conformations in mono- and oligosaccharides: a combined MD and DFT approach. In *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*. ISSN 1463-9076, 2017, vol. 19, no. 31, pp. 20760-20772., Registrované v: WOS
4. [1.1] LOMAS, John S. - JOUBERT, Laurent. On the importance of intramolecular hydrogen bond cooperativity in d-glucose an NMR and QTAIM approach. In *MAGNETIC RESONANCE IN CHEMISTRY*. ISSN 0749-1581, 2017, vol. 55, no. 10, pp. 893-901., Registrované v: WOS
5. [1.1] LONARDI, Alice - OBORSKY, Pavel - HUNENBERGER, Philippe H. Solvent-Modulated Influence of Intramolecular Hydrogen-Bonding on the Conformational Properties of the Hydroxymethyl Group in Glucose and Galactose: A Molecular Dynamics Simulation Study. In *HELVETICA CHIMICA ACTA*. ISSN 0018-019X, 2017, vol. 100, no. 1, pp., Registrované v: WOS
6. [1.1] TAN, Yanglan - ZHAO, Ning - LIU, Jinfeng - LI, Pengfei - STEDWELL, Corey N. - YU, Long - POLFER, Nicolas C. Vibrational Signatures of Isomeric Lithiated N-acetyl-D-hexosamines by Gas-Phase Infrared Multiple-Photon Dissociation (IRMPD) Spectroscopy. In *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*. ISSN 1044-0305, 2017, vol. 28, no. 3, pp. 539-550., Registrované v: WOS

ADCA756 UHLIARIKOVÁ, Iveta - VRŠANSKÁ, Mária - MCCLEARY, Barry V. - BIELY, Peter. Positional specificity of acetylxyln esterases on natural polysaccharide: An NMR study. In *Biochimica et Biophysica Acta : general subjects*, 2013, vol. 1830, p. 3365-3372. (3.848 - IF2012). (2013 - Current Contents). ISSN 0304-4165.

Citácie:

1. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MASTER, Emma R. Colorimetric Detection of Acetyl Xylan Esterase Activities. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 45-57., Registrované v: WOS

ADCA757 UHRÍN, Dušan - LIPTAJ, T. - KOVÉR, K.E. Modified BIRD pulses and design of heteronuclear pulse sequences. In *Journal of Magnetic Resonance*, 1993, vol. 101, p. 41-46. ISSN 1090-7807.

Citácie:

1. [1.1] MARCO, N. - SOUZA, A. A. - NOLIS, P. - GIL, R. R. - PARELLA, T. Perfect (1)J(CH)resolved HSQC: Efficient measurement of one-bond proton-carbon coupling constants along the indirect dimension. In *JOURNAL OF MAGNETIC RESONANCE*. ISSN 1090-7807, 2017, vol. 276, no., pp. 37-42., Registrované v: WOS
2. [1.1] MARCO, Nuria - NOLIS, Pau - GIL, Roberto R. - PARELLA, Teodor. (2)J(HH)-resolved HSQC: Exclusive determination of geminal proton-proton coupling constants. In *JOURNAL OF MAGNETIC RESONANCE*. ISSN 1090-7807, 2017, vol. 282, no., pp. 18-26., Registrované v: WOS
3. [1.1] VERMA, Ajay - PARIHAR, Rashmi - BHATTACHARYA, Subrato - BAISHYA, Bikash. Analyses of Complex Mixtures by F-1 Homo-Decoupled Diagonal Suppressed Total Correlation Spectroscopy. In *CHEMPHYSICHEM*. ISSN 1439-4235, 2017, vol. 18, no. 21, pp. 3076-3082., Registrované v: WOS

ADCA758 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. (3.129 - IF2010). (2011 - Current Contents). ISSN 1742-464X.

Citácie:

1. [1.1] TEMPLE, Max J. - CUSKIN, Fiona - BASLE, Arnaud - HICKEY, Niall - SPECIALE, Gaetano - WILLIAMS, Spencer J. - GILBERT, Harry J. - LOWE, Elisabeth C. A Bacteroidetes locus dedicated to fungal 1,6--glucan degradation: Unique substrate conformation drives specificity of the key endo-1,6--glucanase. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2017, vol. 292, no. 25, pp. 10639-10650., Registrované v: WOS
2. [1.2] ST JOHN, Franz J. - CROOKS, Casey - DIETRICH, Diane - HURLBERT, Jason. Xylanase 30 A from Clostridium thermocellum functions as a glucuronoxylan xylanohydrolase. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-11-08, 133, pp. S445-S451., Registrované v: SCOPUS

ADCA759 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. (2.958 - IF2009). (2010 - Current Contents, SCOPUS). ISSN 0304-4165.

Citácie:

ADCA760

1. [1.1] MENDEZ-YANEZ, Angela - BELTRAN, Dina - CAMPANO-ROMERO, Constanza - MOLINETT, Sebastian - HERRERA, Raul - ALEJANDRA MOYA-LEON, Maria - MORALES-QUINTANA, Luis. Glycosylation is important for FcXTH1 activity as judged by its structural and biochemical characterization. In *PLANT PHYSIOLOGY AND BIOCHEMISTRY*. ISSN 0981-9428, 2017, vol. 119, no., pp. 200-210., Registrované v: WOS
- 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. (2.301 - IF2008). (2009 - Current Contents, SCOPUS, GEOBASE, BIOSIS). ISSN 0098-8472.
- Citácie:
1. [1.1] ALMEIDA RODRIGUES, Luiz Carlos - RODRIGUES MARTINS, Joao Paulo - DE ALMEIDA JUNIOR, Osmar - GUIMARAES GUILHERME, Luiz Roberto - PASQUAL, Moacir - DE CASTRO, Evaristo Mauro. Tolerance and potential for bioaccumulation of *Alternanthera tenella* Colla to cadmium under in vitro conditions. In *PLANT CELL TISSUE AND ORGAN CULTURE*. ISSN 0167-6857, 2017, vol. 130, no. 3, pp. 507-519., Registrované v: WOS
2. [1.1] BABU, Tapasya - NAGABOVANALLI, Prakash. Effect of silicon amendment on soil-cadmium availability and uptake in rice grown in different moisture regimes. In *JOURNAL OF PLANT NUTRITION*. ISSN 0190-4167, 2017, vol. 40, no. 17, pp. 2440-2457., Registrované v: WOS
3. [1.1] Gao Zi-xiang; Zhou Hang; Yang Wen-tao; Gu Jiao-feng; Chen Li-wei; Du Wen-qi; Xu Jun; Liao Bo-han. Impacts of Silicon Fertilizer as Base Manure on Cadmium Bioavailability in Soil and on Cadmium Accumulation in Rice Plants. In: *Huanjing Kexue Huanjing Kexue* Vol. 38 (2017), Issue: 12, p. 5299-5307, Registrované v: WOS
4. [1.1] HINRICHS, Martin - FLECK, Alexander T. - BIEDERMANN, Eline - NGO, Ngoc S. - SCHREIBER, Lukas - SCHENK, Manfred K. An ABC Transporter Is Involved in the Silicon-Induced Formation of Casparian Bands in the Exodermis of Rice. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
5. [1.1] LIN, Hongmei - FANG, Changxun - LI, Yingzhe - LIN, Weiwei - HE, Jianyu - LIN, Ruiyu - LIN, Wenxiong. Cadmium-stress mitigation through gene expression of rice and silicon addition. In *PLANT GROWTH REGULATION*. ISSN 0167-6903, 2017, vol. 81, no. 1, pp. 91-101., Registrované v: WOS
6. [1.1] LU, Huanping - LI, Zhian - WU, Jingtao - SHEN, Yong - LI, Yingwen - ZOU, Bi - TANG, Yetao - ZHUANG, Ping. Influences of calcium silicate on chemical forms and subcellular distribution of cadmium in *Amaranthus hypochondriacus* L. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
7. [1.1] RIZWAN, Muhammad - ALI, Shafaqat - QAYYUM, Muhammad Farooq - OK, Yong Sik - ZIA-UR-REHMAN, Muhammad - ABBAS, Zaheer - HANNAN, Fakhir. Use of Maize (*Zea mays* L.) for phytomanagement of Cd-contaminated soils: a critical review. In *ENVIRONMENTAL GEOCHEMISTRY AND HEALTH*. ISSN 0269-4042, 2017, vol. 39, no. 2, pp. 259-277., Registrované v: WOS
8. [1.1] SHAO, Ji Feng - CHE, Jing - YAMAJI, Naoki - SHEN, Ren Fang - MA, Jian Feng. Silicon reduces cadmium accumulation by suppressing expression of transporter genes involved in cadmium uptake and translocation in rice. In *JOURNAL OF EXPERIMENTAL BOTANY*. ISSN 0022-0957, 2017, vol. 68, no. 20, pp. 5641-5651., Registrované v: WOS
9. [1.1] SHI, Gangrong - ZHANG, Zheng - LIU, Caifeng. Silicon influences cadmium translocation by altering subcellular distribution and chemical forms of cadmium in peanut roots. In *ARCHIVES OF AGRONOMY AND SOIL SCIENCE*. ISSN 0365-0340, 2017, vol. 63, no. 1, pp. 117-123., Registrované v: WOS
10. [1.1] WANG, Zhaofeng - LI, Qien - WU, Weiguo - GUO, Jie - YANG, Yingli. Cadmium stress tolerance in wheat seedlings induced by ascorbic acid was mediated by NO signaling pathways. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. ISSN 0147-6513, 2017, vol. 135, no., pp. 75-81., Registrované v: WOS
11. [1.1] ZANG, Fei - WANG, Shengli - NAN, Zhongren - MA, Jianmin - ZHANG, Qian - CHEN, Yazhou - LI, Yepu. Accumulation, spatio-temporal distribution, and risk assessment of heavy metals in the soil-corn system around a polymetallic mining area from the Loess Plateau, northwest China. In *GEODERMA*. ISSN 0016-7061, 2017, vol. 305, no., pp. 188-196., Registrované v: WOS
12. [1.2] LIU, Cai Feng - SHI, Gang Rong - YU, Ru Gang - ZHANG, Zheng. Eco-physiological mechanisms of silicon-induced alleviation of cadmium toxicity in plants: A review. In *Shengtai Xuebao/ Acta Ecologica Sinica*. ISSN 10000933, 2017-01-01, 37, 23, pp. 7799-7810., Registrované v: SCOPUS
13. [1.2] LIU, Haibo - MENCHYK, Nick - BETHEA, Frank - BALDWIN, Christian. Nutrient management of golf course putting greens under stresses. In *Handbook of Plant and Crop Stress*,

- ADCA761 *Third Edition, 2016-04-19, pp. 987-1015., Registrované v: SCOPUS*
VADINOVÁ, Kristína, Kováčová - 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. 11 (13 pages. ISSN 1567-1356.
 Citácie:
 1. [1.1] *MATSUSHIKA, Akinori - SUZUKI, Toshihiro - GOSHIMA, Tetsuya - HOSHINO, Tamotsu.* Evaluation of *Saccharomyces cerevisiae* GAS1 with respect to its involvement in tolerance to low pH and salt stress. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2017, vol. 124, no. 2, pp. 164-170., Registrované v: WOS
 2. [1.2] *QUINTANA, Sandra Margarita Cruz - SJOSTROM, Pedro Díaz - BALDEÓN, Gloria Mazón - SOCARRÁS, Dunier Arias - PAZ, María Calderón - MOLINA, Angélica Herrera.* Genome of *Candida albicans* and drug resistance. In *Salud Uninorte*. ISSN 01205552, 2017-09-01, 33, 3, pp. 438-450., Registrované v: SCOPUS
- ADCA762 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Influence of pesticides on the yeasts colonizing the leaves. In *Zeitschrift für Naturforschung C*, 2011, vol. 66c, p. 588-594. (0.718 - IF2010). (2011 - Current Contents). ISSN 0939-5075.
 Citácie:
 1. [1.1] *SCARIOT, Fernando J. - JAHN, Luciane - DELAMARE, Ana Paula L. - ECHEVERRIGARAY, Sergio.* Necrotic and apoptotic cell death induced by Captan on *Saccharomyces cerevisiae*. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 8, pp., Registrované v: WOS
 2. [1.1] *TUTULESCU, Felicia - POPA, Angela - COSMULESCU, Sina Niculina.* Influence of Pesticides on the Micro-Mycelia Present upon the Grape's Surface. In *ROMANIAN BIOTECHNOLOGICAL LETTERS*. ISSN 1224-5984, 2017, vol. 22, no. 2, pp. 12448-12455., Registrované v: WOS
- ADCA763 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. (2006 - Current Contents). ISSN 0233-111X.
 Citácie:
 1. [1.1] *GRANGETEAU, Cedric - DAVID, Vanessa - HERVE, Alexandre - GUILLOUX-BENATIER, Michele - ROUSSEAUX, Sandrine.* The sensitivity of yeasts and yeasts-like fungi to copper and sulfur could explain lower yeast biodiversity in organic vineyards. In *FEMS YEAST RESEARCH*. ISSN 1567-1356, 2017, vol. 17, no. 8, pp., Registrované v: WOS
 2. [1.1] *GRANGETEAU, Cedric - ROULLIER-GALL, Chloe - ROUSSEAUX, Sandrine - GOUGEON, Regis D. - SCHMITT-KOPPLIN, Philippe - ALEXANDRE, Herve - GUILLOUX-BENATIER, Michele.* Wine microbiology is driven by vineyard and winery anthropogenic factors. In *MICROBIAL BIOTECHNOLOGY*. ISSN 1751-7915, 2017, vol. 10, no. 2, pp. 354-370., Registrované v: WOS
 3. [1.1] *MOHITE, Pallavi - KUMAR, Ameeta Ravi - ZINJARDE, Smita.* Relationship between salt tolerance and nanoparticle synthesis by *Williopsis saturnus* NCIM 3298. In *WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY*. ISSN 0959-3993, 2017, vol. 33, no. 9, pp., Registrované v: WOS
 4. [1.1] *MUKHERJEE, Vaskar - RADECKA, Dorota - AERTS, Guido - VERSTREPEN, Kevin J. - LIEVENS, Bart - THEVELEIN, Johan M.* Phenotypic landscape of non-conventional yeast species for different stress tolerance traits desirable in bioethanol fermentation. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
 5. [1.2] *GUPTA, Saurabh - SINGH, Daljeet.* Role of genetically modified microorganisms in heavy metal bioremediation. In *Advances in Environmental Biotechnology*, 2017-05-01, pp. 197-214., Registrované v: SCOPUS
 6. [1.2] *HASAN, Saba - HAQUE, Ziyaul - HAIDER, Kaynat - MEHROTRA, Varhshika.* Isolation, identification and heavy metal tolerance of fungal strains isolated from heavy metal contaminated River Gomti. In *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*. ISSN 09723005, 2017-01-01, 19, 1, pp. 154-159., Registrované v: SCOPUS
- ADCA764 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. (1.335 - IF2015). (2016 - Current Contents). ISSN 0015-5632.
 Citácie:
 1. [1.1] *CROGNALÉ, Silvia - D'ANNIBALE, Alessandro - PESCIAROLI, Lorena - STAZI, Silvia R. - PETRUCCIOLI, Maurizio.* Fungal Community Structure and As-Resistant Fungi in a Decommissioned Gold Mine Site. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

- ADCA765 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. (1.363 - IF2011). (2012 - Current Contents). ISSN 0008-4166.
- Citácie:
- [1.1] DE VEGA, Clara - ALBALADEJO, Rafael G. - GUZMAN, Beatriz - STEENHUISEN, Sandy-Lynn - JOHNSON, Steven D. - HERRERA, Carlos M. - LACHANCE, Marc-Andre. Flowers as a reservoir of yeast diversity: description of *Wickerhamiella nectarea* f.a. sp nov., and *Wickerhamiella natalensis* f.a. sp nov from South African flowers and pollinators, and transfer of related *Candida* species to the genus *Wickerhamiella* as new combinations. In FEMS YEAST RESEARCH. ISSN 1567-1356, 2017, vol. 17, no. 5, pp., Registrované v: WOS
 - [1.1] GIACOMUZZI, Valentino - MATTHEIS, James P. - BASOALTO, Esteban - ANGELI, Sergio - KNIGHT, Alan L. Survey of conspecific herbivore-induced volatiles from apple as possible attractants for *Pandemis pyrusana* (Lepidoptera: Tortricidae). In PEST MANAGEMENT SCIENCE. ISSN 1526-498X, 2017, vol. 73, no. 9, pp. 1837-1845., Registrované v: WOS
 - [1.1] GLUSHAKOVA, A. M. - KACHALKIN, A. V. Endophytic yeasts in *Malus domestica* and *Pyrus communis* fruits under anthropogenic impact. In MICROBIOLOGY. ISSN 0026-2617, 2017, vol. 86, no. 1, pp. 128-135., Registrované v: WOS
 - [1.1] LANGENBERG, Anne-Kathrin - BINK, Frauke J. - WOLFF, Lena - WALTER, Stefan - VON WALLBRUNN, Christian - GROSSMANN, Manfred - HEINISCH, Juergen J. - SCHMITZ, Hans-Peter. Glycolytic Functions Are Conserved in the Genome of the Wine Yeast *Hanseniaspora uvarum*, and Pyruvate Kinase Limits Its Capacity for Alcoholic Fermentation. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, 2017, vol. 83, no. 22, pp., Registrované v: WOS
- ADCA766 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from the water environment. In Canadian journal of microbiology, 1995, vol. 41, p. 759-766. ISSN 0008-4166.
- Citácie:
- [1.1] Mushtaq, Muhammad; Sharfun-Nahar; ShahabAlam, Muhammad; Shaheen, Ghazala; Hashmi, M. H. SCREENING KILLER ACTIVITY OF SOME YEAST STRAINS ISOLATED FROM SLIME FLUXES OF TREES. In: International Journal of Biology and Biotechnology , Vol. 14 (2017), Issue: 1, p. 1-9, Registrované v: WOS
 - [1.2] KLASSEN, Roland - SCHAFFRATH, Raffael - BUZZINI, Pietro - GANTER, Philip F. Antagonistic interactions and killer yeasts. In Yeasts in Natural Ecosystems: Ecology, 2017-01-01, pp. 229-275., Registrované v: SCOPUS
- ADCA767 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. (2.021 - IF2008). (2009 - Current Contents). ISSN 0378-1097.
- Citácie:
- [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In NEW BIOTECHNOLOGY. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
 - [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
- ADCA768 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. (1.724 - IF2008).
- Citácie:
- [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS
 - [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. Advances in developing rapid, reliable and portable detection systems for alcohol. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99., Registrované v: WOS
 - [1.1] VITORINO, Luciana C. - BESSA, Layara A. Technological Microbiology: Development

- and Applications. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp.,
Registrované v: WOS
4. [1.2] Yoo, Y. J., Feng, Y., Kim, Y. H., & Yagonia, C. F. J. (2017). In *Fundamentals of Enzyme Engineering* (Springer, pp. 1-209), Registrované v: SCOPUS
- ADCA769 VALACHOVÁ, Katarína - HRABÁROVÁ, Eva - PRIESOLOVÁ, Elena - NAGY, Milan - BAŇASOVÁ, Mária - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molecular-weight hyaluronan induced by ascorbate plus cupric ions. Testing of buccillamine and its SA981-metabolite as antioxidants. In *Journal of Pharmaceutical and Biomedical Analysis*, 2011, vol. 56, p. 664-670. (2.733 - IF2010). (2011 - Current Contents). ISSN 0731-7085.(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).
- Citácie:
1. [1.1] KYRIAKIDOU, M. - ANASTASSOPOULOU, J. - TSAKIRIS, A. - KOU, M. - THEOPHANIDES, T. FT-IR Spectroscopy Study in Early Diagnosis of Skin Cancer. In *IN VIVO*. ISSN 0258-851X, 2017, vol. 31, no. 6, p. 1131-1137., Registrované v: WOS
- ADCA770 VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOĽSKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTÉS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In *Carbohydrate Polymers*, 2015, vol. 134, p. 516-523. (4.074 - IF2014). (2015 - Current Contents). ISSN 0144-8617.(VEGA č. 2/0065/15 : Protektívne účinky prírodných a syntetických látok pred oxidačným poškodením vysokomolekulového hyalurónanu, 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] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, p. 1837-1843., Registrované v: WOS
2. [1.1] SHEN, S. - CHI, X. - DONG, J. - HUO, S. - TIAN, H. - XU, L. - SHI, T. Oxidation of the drug tiopronin by Cerium(IV) in perchloric acid media: Kinetic and mechanistic analyses. In *JOURNAL OF MOLECULAR LIQUIDS*. ISSN 0167-7322, 2017, vol. 246, p. 1-6., Registrované v: WOS
3. [1.1] UNNITHAN, A.R. - SASIKALA, A.R.K. - PARK, C.H. - KIM, C.S. A unique scaffold for bone tissue engineering: An osteogenic combination of graphene oxide-hyaluronic acid-chitosan with simvastatin. In *JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY*. ISSN 1226-086X, 2017, vol. 46, p. 182-191., Registrované v: WOS
4. [3.1] TANG, Z. - HE, Z. - LI, H. - GUO, D. - ZHAO, Z. Process Intensification in Tiopronin Extraction. In *INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING AND APPLICATIONS*. ISSN 2010-0221, 2016, vol. 7, no. 6, p. 433-436. doi: 10.18178/ijcea.2016.7.6.620
- ADCA771 VALACHOVÁ, Katarína - TOPOĽSKÁ, 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. (4.219 - IF2015). (2016 - Current Contents). ISSN 0144-8617.(VEGA č. 2/0065/15 : Protektívne účinky prírodných a syntetických látok pred oxidačným poškodením vysokomolekulového hyalurónanu, izolovaných živočíšnych buniek a ich mitochondrií).
- Citácie:
1. [1.1] KROUSKA, J. - PEKAR, M. - KLUCAKOVA, M. - SARAC, B. - BESTER-ROGAC, M. Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 157, no., pp. 1837-1843., Registrované v: WOS
2. [1.1] LOEBEL, Claudia - SZCZESNY, Spencer E. - COSGROVE, Brian D. - ALINI, Mauro - ZENOBI-WONG, Marcy - MAUCK, Robert L. - EGLIN, David. Cross-Linking Chemistry of Tyramine-Modified Hyaluronan Hydrogels Alters Mesenchymal Stem Cell Early Attachment and Behavior. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2017, vol. 18, no. 3, pp. 855-864., Registrované v: WOS
- ADCA772 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. In *Applied and Environmental Microbiology*, 2016, vol. 82, p. 5116-5124. (3.823 - IF2015). (2016 - Current Contents). ISSN 0099-

2240.

Citácie:

1. [1.1] MELLO, Bruno L. - ALESSI, Anna M. - RIANO-PACHON, Diego M. - DEAZEVEDO, Eduardo R. - GUIMARAES, Francisco E. G. - ESPIRITO SANTO, Melissa C. - MCQUEEN-MASON, Simon - BRUCE, Neil C. - POLIKARPOV, Igor. Targeted metatranscriptomics of compost-derived consortia reveals a GH11 exerting an unusual exo-1,4-beta-xylanase activity. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

ADCA773

VAN PEU, N.N.M.E. - BRINKMANN, J. - VRŠANSKÁ, Mária - VISSER, J. - DE GRAAFF, L.H. Beta xylosidase activity, encoded by xlnD, is essential for complete hydrolysis of xylan by Aspergillus niger but not for induction of the xylanolytic enzyme spectrum. In European Journal of Biochemistry, 1997, vol. 245, p. 164-173. (1997 - Current Contents, SCOPUS). ISSN 0014-2956.

Citácie:

1. [1.1] GRUBEN, Birgit S. - MAKELA, Miia R. - KOWALCZYK, Joanna E. - ZHOU, Miaomiao - BENOIT-GELBER, Isabelle - DE VRIES, Ronald P. Expression-based clustering of CAZyme-encoding genes of Aspergillus niger. In BMC GENOMICS. ISSN 1471-2164, 2017, vol. 18, no., pp., Registrované v: WOS

2. [1.1] Group Author(s): Uniprot Consortium. O00089. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/O00089>, Registrované v: WOS

3. [1.1] INOUE, Kotomi - TAKAHASHI, Yui - OBARA, Ken - MURAKAMI, Shuichiro. Localization of functional xylosidases, encoded by the same single gene, xlnIV (xlnD), from Aspergillus niger E-1. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY. ISSN 0916-8451, 2017, vol. 81, no. 3, pp. 621-624., Registrované v: WOS

4. [1.2] SILVA, Roberto N. Regulation of plant cell wall degrading enzymes formation in filamentous fungi. In Fungal Enzymes, 2016-04-19, pp. 173-213., Registrované v: SCOPUS

ADCA774

VIKARTOVSKÁ, Alica, Welwardová - BUČKO, Marek - MISLOVIČOVÁ, Danica - PĀTOPRSTÝ, 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. (1.897 - IF2006). (2007 - Current Contents). ISSN 0141-0229.

Citácie:

1. [1.1] BORNHOEFT, L.R. - BISWAS, A. - MCSHANE, M.J. Composite Hydrogels with Engineered Microdomains for Optical Glucose Sensing at Low Oxygen Conditions. In BIOSENSORS-BASEL. ISSN 2079-6374, MAR 2017, vol. 7, no. 1., Registrované v: WOS

ADCA775

VIVODOVÁ, Zuzana, Vatehová - MALOVÍKOVÁ, Anna - KOLLÁROVÁ, Karin - RICHTEROVÁ-KUČEROVÁ, Danica - LIŠKOVÁ, Desana. Impact of cadmium stress on two maize hybrids. In Plant Physiology and Biochemistry, 2016, vol. 108, p. 90-98. (2.928 - IF2015). (2016 - Current Contents). ISSN 0981-9428.

Citácie:

1. [1.1] LOIX, Christophe - HUYBRECHTS, Michiel - VANGRONSVELD, Jaco - GIELEN, Marijke - KEUNEN, Els - CUYPERS, Ann. Reciprocal Interactions between Cadmium-Induced Cell Wall Responses and Oxidative Stress in Plants. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

ADCA776

VLČKOVÁ, Viera - DÚHOVÁ, V. - SVIDOVÁ, Soňa - FARKAŠOVÁ, A. - KAMASOVÁ, S. - VLČEK, D. - KOGAN, Grigorij - RAUKO, Peter - MIADOKOVÁ, Eva. Antigenotoxic potential of glucomannan on four model test systems. In Cell biology and toxicology, 2004, vol. 20, no. 6, p. 325-332. ISSN 0742-2091.

Citácie:

1. [1.1] KIELISZEK, Marek - KOT, Anna M. - BZDUCHA-WROBEL, Anna - BLAZEJAK, Stanislaw - GIENKA, Iwona - KURCZ, Agnieszka. Biotechnological use of Candida yeasts in the food industry: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, 2017, vol. 31, no. 4, pp. 185-198., Registrované v: WOS

ADCA777

VODENIČAROVÁ, M. - DRÍMALOVÁ, 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. ISSN 1350-4177.

Citácie:

1. [1.1] AKRAM, Kashif - SHAHBAZ, Hafiz Muhammad - KIM, Gui-Ran - FAROOQ, Umar - KWON, Joong-Ho. Improved Extraction and Quality Characterization of Water-Soluble Polysaccharide from Gamma-Irradiated Lentinus edodes. In JOURNAL OF FOOD SCIENCE. ISSN 0022-1147, 2017, vol. 82, no. 2, pp. 296-303., Registrované v: WOS

2. [1.1] ANTOV, Mirjana G. - DORDEVIC, Tatjana R. Environmental-friendly technologies for the production of antioxidant xylooligosaccharides from wheat chaff. In FOOD CHEMISTRY. ISSN 0308-8146, 2017, vol. 235, no., pp. 175-180., Registrované v: WOS

3. [1.1] CAO, Ruge - YANG, Xingyue - SHANG, Wenting - ZHOU, Zhongkai - STRAPPE, Pdraig - BLANCHARD, Chris. Functional enrichment of mannanase-treated spent brewer yeast. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, 2017, vol. 47, no. 8, pp. 789-794., Registrované v: WOS
4. [1.1] VILLARES, Ana - BIZOT, Herve - MOREAU, Celine - ROLLAND-SABATE, Agnes - CATHALA, Bernard. Effect of xyloglucan molar mass on its assembly onto the cellulose surface and its enzymatic susceptibility. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 157, no., pp. 1105-1112., Registrované v: WOS
5. [1.2] CHEN, Jingqiu - CHEN, Shiguo - CHEN, Jianle - YE, Xingqian. The Preparation of Low-methoxyl Pectin by Ultrasonic Method. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-11-30, 17, 11, pp. 82-89., Registrované v: SCOPUS
6. [1.2] MUTHUKUMARAPPAN, Kasiviswanathan - TIWARI, B. K. - O'DONNELL, C. P. - CULLEN, P. J. Ultrasound processing: Rheological and functional properties of food. In Novel Food Processing: Effects on Rheological and Functional Properties, 2016-04-19, pp. 85-102., Registrované v: SCOPUS

ADCA778 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. (1.898 - IF2010). (2011 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp. 255-422., Registrované v: WOS
2. [1.2] Goekjian, P., Haudrechy, A., Menhour, B., & Coiffier, C. (2017). In C-Furanosides: Synthesis and Stereochemistry. (Elsevier, pp. 1-771), Registrované v: SCOPUS

ADCA779 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. (1.703 - IF2006). (2007 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] BOKOR, Eva - KUN, Sandor - GOYARD, David - TOTH, Marietta - PRALY, Jean-Pierre - VIDAL, Sebastien - SOMSAK, Laszlo. C-Glycopyranosyl Arenes and Hetarenes: Synthetic Methods and Bioactivity Focused on Antidiabetic Potential. In CHEMICAL REVIEWS. ISSN 0009-2665, 2017, vol. 117, no. 3, pp. 1687-1764., Registrované v: WOS
2. [1.1] KHOSE, Vaibhav N. - JOHN, Marina E. - PANDEY, Anita D. - KARNIK, Anil V. Chiral benzimidazoles and their applications in stereodiscrimination processes. In TETRAHEDRON-ASYMMETRY. ISSN 0957-4166, 2017, vol. 28, no. 10, pp. 1233-1289., Registrované v: WOS

ADCA780 VOS, Paul de - BUČKO, Marek - GEMEINER, Peter - NAVRÁTIL, Marián - ŠVITEL, Juraj - FAAS, Marijke - STRAND, Berit Lokensgard - SKJAK-BRAEK, Gudmund - MORCH, Yrr A. - VIKARTOVSKÁ, Alica - Welwardová - 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. (6.646 - IF2008). (2009 - Current Contents). ISSN 0142-9612.

Citácie:

1. [1.1] CHAN, K.H. - KRISHNAN, R. - ALEXANDER, M. - LAKEY, J.R.T. Developing a Rapid Algorithm to Enable Rapid Characterization of Alginate Microcapsules. In CELL TRANSPLANTATION. ISSN 0963-6897, 2017, vol. 26, no. 5, p. 765-772., Registrované v: WOS
2. [1.1] COIMBRA, N.V. - NASCIMENTO, M. - GIESE, E.C. EVALUATION OF THE USE OF BACTERIAL IMMOBILIZED BIOMASS IN LIGHT AND MEDIUM RARE-EARTH ELEMENTS BIOSORPTION. In HOLOS. ISSN 1518-1634, 2017, vol. 33, no. 6, p. 136-146., Registrované v: WOS
3. [1.1] DIEKJURGEN, D. - GRAINGER, D.W. Polysaccharide matrices used in 3D in vitro cell culture systems. In BIOMATERIALS. ISSN 0142-9612, OCT 2017, vol. 141, p. 96-115., Registrované v: WOS
4. [1.1] GALVEZ-MARTIN, P. - MARTIN, J.M. - RUIZ, A.M. - CLARES, B. Encapsulation in Cell Therapy: Methodologies, Materials, and Clinical Applications. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2017, vol. 18, no. 5, p. 365-377., Registrované v: WOS
5. [1.1] HECK, R.T. - VENDRUSCOLO, R.G. - ETCHEPARE, M.D.A. - CICHOSKI, A.J. - DE MENEZES, C.R. - BARIN, J.S. - LORENZO, J.M. - WAGNER, R. - CAMPAGNOL, P.C.B. Is it possible to produce a low-fat burger with a healthy n-6/n-3 PUPA ratio without affecting the technological and sensory properties?. In MEAT SCIENCE. ISSN 0309-1740, AUG 2017, vol.

130, p. 16-25., Registrované v: WOS

6. [1.1] JAWOREK, Anatol. ELECTROHYDRODYNAMIC MICROENCAPSULATION TECHNOLOGY. In *ENCAPSULATIONS: NANOTECHNOLOGY IN THE AGRI-FOOD INDUSTRY*, VOL 2, 2016, vol. 2, no., pp. 1-45., Registrované v: WOS

7. [1.1] KIM, D.H. - LEE, S.B. - PARK, H.D. Effect of air-blast drying and the presence of protectants on the viability of yeast entrapped in calcium alginate beads with an aim to improve the survival rate. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, JAN 2017, vol. 101, no. 1, p. 93-102., Registrované v: WOS

8. [1.1] LONG, R.M. - LIU, Y.G. - WANG, S.B. - YE, L. - HE, P. Co-microencapsulation of BMSCs and mouse pancreatic beta cells for improving the efficacy of type I diabetes therapy. In *INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS*. ISSN 0391-3988, APR 2017, vol. 40, no. 4, p. 169-175., Registrované v: WOS

9. [1.1] OPARA, E.C. Applications of Cell Microencapsulation. In *CELL MICROENCAPSULATION: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1479, p. 23-39., Registrované v: WOS

10. [1.1] OTA, A. - VISNJEVEC, A.M. - VIDRIH, R. - PRGOMET, Z. - NECEMER, M. - HRIBAR, J. - CIMERMAN, N.G. - MOZINA, S.S. - BUCAR-MIKLAVCIC, M. - ULRIH, N.P. Nutritional, antioxidative, and antimicrobial analysis of the Mediterranean hackberry (*Celtis australis* L.). In *FOOD SCIENCE & NUTRITION*. ISSN 2048-7177, JAN 2017, vol. 5, no. 1, p. 160-170., Registrované v: WOS

11. [1.1] SCOGNAMIGLIO, F. - TRAVAN, A. - COK, M. - BORGOGNA, M. - MARSICH, E. - PAOLETTI, S. - DONATI, I. On the demixing of hyaluronan and alginate in the gel state. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, FEB 2017, vol. 95, p. 49-53., Registrované v: WOS

12. [1.1] VAITHILINGAM, V. - STEINKJER, B. - RYAN, L. - LARSSON, R. - TUCH, B.E. - OBERHOLZER, J. - ROKSTAD, A.M. In Vitro and In Vivo Biocompatibility Evaluation of Polyallylamine and Macromolecular Heparin Conjugates Modified Alginate Microbeads. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, SEP 15 2017, vol. 7., Registrované v: WOS

13. [1.1] YANG, Y.P. - OPARA, E.C. - LIU, Y.B. - ATALA, A. - ZHAO, W.X. Microencapsulation of porcine thyroid cell organoids within a polymer microcapsule construct. In *EXPERIMENTAL BIOLOGY AND MEDICINE*. ISSN 1535-3702, FEB 2017, vol. 242, no. 3, p. 286-296., Registrované v: WOS

14. [1.2] VAITHILINGAM, V. - BAL, S. - TUCH, B.E. Encapsulated islet transplantation: Where do we stand?(2017) Review of Diabetic Studies, 14 (1), p. 51-78., Registrované v: Scopus

15. [1.2] WANG, L. - LIU, K. - LIU, P. - QI, X. Optimization of the Encapsulating Conditions and Fermentation Characteristics of the Micro Capsule on Bacterias in Kefir Grains. (2017) Journal of Chinese Institute of Food Science and Technology, 17 (5), p. 73-81., Registrované v: Scopus

ADCA781 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.

Citácie:

1. [1.1] BABU, K. Justice - SENTHILKUMAR, N. - KIM, Ae Rhan - KUMAR, G. Gnana. Freestanding and binder free PVdF-HFP/Ni-Co nanofiber membrane as a versatile platform for the electrocatalytic oxidation and non-enzymatic detection of urea. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 241, no., pp. 541-551., Registrované v: WOS

2. [1.1] LI, Zhenzhen - ZHANG, Qiyi - HUANG, Huaying - REN, Changjing - OUYANG, Si - ZHAO, Qiang. L-noradrenaline functionalized near-infrared fluorescence CdSeTe probe for the determination of urea and bioimaging of HepG2 Cells. In *TALANTA*. ISSN 0039-9140, 2017, vol. 171, no., pp. 16-24., Registrované v: WOS

3. [1.1] RAFIQ, Khezina - MAI, Hien Duy - KIM, Jin Kyung - WOO, Jae Min - MOON, Bo Mi - PARK, Chan Hum - YOO, Hyojong. Fabrication of a highly effective electrochemical urea sensing platform based on urease-immobilized silk fibroin scaffold and aminated glassy carbon electrode. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 251, no., pp. 472-480., Registrované v: WOS

4. [1.2] PAITHANKAR, K. S. - DESHMUKH, V. B. - SHELKE, U. N. - IYYER, S. B. - MORE, S. T. - GADE, V. K. Synthesis of polyaniline based nanocomposite graphite paste electrode modified with and without rice husk for sensor application: A comparative study. In *Asian Journal of Chemistry*. ISSN 09707077, 2017-01-01, 29, 11, pp. 2545-2548., Registrované v: SCOPUS

ADCA782 VOŠTIAR, I. - **TKÁČ, Ján** - MANDENIUS, C.F. Off-line monitoring of bacterial stress response during recombinant protein production using an optical biosensor. In *Journal of Biotechnology*, 2004, vol. 111, p. 191-201. ISSN 0168-1656.

Citácie:

- ADCA783 1. [1.1] PACHAURI, Nikhil - SINGH, Vijander - RANI, Asha. Two degree of freedom PID based inferential control of continuous bioreactor for ethanol production. In *ISA TRANSACTIONS*. ISSN 0019-0578, 2017, vol. 68, no., pp. 235-250., Registrované v: WOS
- VRŠANSKÁ, Mária - ŠUCHOVÁ, Katarína, Kolenová - 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. ISSN 1873-3468.
- Citácie:
1. [1.1] GRANTHAM, Nicholas J. - WURMAN-RODRICH, Joel - TERRETT, Oliver M. - LYCZAKOWSKI, Jan J. - STOTT, Katherine - IUGA, Dinu - SIMMONS, Thomas J. - DURAND-TARDIF, Mylene - BROWN, Steven. P. - DUPREE, Ray - BUSSE-WICHER, Marta - DUPREE, Paul. An even pattern of xylan substitution is critical for interaction with cellulose in plant cell walls. In *NATURE PLANTS*. ISSN 2055-026X, 2017, vol. 3, no. 11, pp. 859-865., Registrované v: WOS
2. [1.2] ST JOHN, Franz J. - CROOKS, Casey - DIETRICH, Diane - HURLBERT, Jason. Xylanase 30 A from *Clostridium thermocellum* functions as a glucuronoxylan xylanohydrolase. In *Journal of Molecular Catalysis B: Enzymatic*. ISSN 13811177, 2016-11-08, 133, pp. S445-S451., Registrované v: SCOPUS
- ADCA784 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. (1.299 - IF1991). ISSN 0008-6215.
- Citácie:
1. [1.1] KARI, Jeppe - KONT, Riin - BORCH, Kim - BUSKOV, Steen - OLSEN, Johan Pelck - CRUYZ-BAGGER, Nicolaj - VALJAMAE, Priit - WESTH, Peter. Anomeric Selectivity and Product Profile of a Processive Cellulase. In *BIOCHEMISTRY*. ISSN 0006-2960, 2017, vol. 56, no. 1, pp. 167-178., Registrované v: WOS
2. [1.1] OGUNMOLU, Funso Emmanuel - JAGADEESHA, Navya Bhatt Kammachi - KUMAR, Rakesh - KUMAR, Pawan - GUPTA, Dinesh - YAZDANI, Syed Shams. Comparative insights into the saccharification potentials of a relatively unexplored but robust *Penicillium funiculosum* glycoside hydrolase 7 cellobiohydrolase. In *BIOTECHNOLOGY FOR BIOFUELS*. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS
- ADCA785 WELLNER, N. - KAČURÁKOVÁ, Marta - MALOVÍKOVÁ, Anna - WILSON, R.H. - BELTON, P.S. FT-IR study of pectate and pectinate gels formed by divalent cations. In *Carbohydrate Research*, 1998, vol. 308, no. 1-2, p. 123. (1.417 - IF1997). (1998 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] BAUM, Andreas - DOMINIÁK, Malgorzata - VIDAL-MELGOSA, Silvia - WILLATS, William G. T. - SONDERGAARD, Karen M. - HANSEN, Per W. - MEYER, Anne S. - MIKKELSEN, Jorn D. Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis. In *FOOD AND BIOPROCESS TECHNOLOGY*. ISSN 1935-5130, 2017, vol. 10, no. 1, pp. 143-154., Registrované v: WOS
2. [1.1] CHAUHAN, Narendra Pal Singh - GHOLIPOURMALEKABADI, Mazaher - MOZAFARI, Masoud. Fabrication of newly developed pectin/GeO₂ nanocomposite using extreme biomimetics route and its antibacterial activities. In *JOURNAL OF MACROMOLECULAR SCIENCE PART A- PURE AND APPLIED CHEMISTRY*. ISSN 1060-1325, 2017, vol. 54, no. 10, pp. 655-661., Registrované v: WOS
3. [1.1] HE, Qian - REN, Jia - REN, Junkai - PANG, Kanglei - MA, Zhi - ZHU, Xingqi - SONG, Rui. Polymethylene-b-poly (acrylic acid) diblock copolymers: Aggregation and crystallization in the presence of CaCl₂. In *EUROPEAN POLYMER JOURNAL*. ISSN 0014-3057, 2017, vol. 95, no., pp. 174-185., Registrované v: WOS
4. [1.1] ISHIZAKA, Kei - LEWIS, Stephen R. - LEWIS, Roger. The low adhesion problem due to leaf contamination in the wheel/rail contact: Bonding and low adhesion mechanisms. In *WEAR*. ISSN 0043-1648, 2017, vol. 378-379, no., pp. 183-197., Registrované v: WOS
5. [1.1] ITOUGA, Misao - HAYATSU, Manabu - SATO, Mayuko - TSUBOI, Yuuri - KATO, Yukari - TOYOOKA, Kiminori - SUZUKI, Suechika - NAKATSUKA, Seiji - KAWAKAMI, Satoshi - KIKUCHI, Jun - SAKAKIBARA, Hitoshi. Protonema of the moss *Funaria hygrometrica* can function as a lead (Pb) adsorbent. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
6. [1.1] MIERCZYŃSKA, Joanna - CYBULSKA, Justyna - ZDUNEK, Artur. Rheological and chemical properties of pectin enriched fractions from different sources extracted with citric acid. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 156, no., pp. 443-451., Registrované v: WOS
7. [1.1] ZHAO, Houkuan - LI, Jinling - WANG, Peng - ZENG, Shaoqiong - XIE, Yimin. Lignin-Carbohydrate Complexes Based Spherical Biocarriers: Preparation, Characterization, and Biocompatibility. In *INTERNATIONAL JOURNAL OF POLYMER SCIENCE*. ISSN 1687-9422,

- 2017, vol., no., pp., Registrované v: WOS
- ADCA786 WOJCIECHOWICZ, M. - HEINRICHOVÁ, Kvetoslava - ZIOLECKI, A. An exopeptidase of *Butyrivibrio fibrisolvens*. In *Journal of General Microbiology*, 1982, vol. 128, p. 2661-2665.
Citácie:
1. [1.2] HYDER, Iqbal - RAVI KANTH REDDY, P. - RAJU, Jakkula - MANJARI, P. - SRINIVASA PRASAD, C. - ASWANI KUMAR, K. - SEJIAN, Veerasamy. Alteration in rumen functions and diet digestibility during heat stress in sheep. In *Sheep Production Adapting to Climate Change, 2017-06-20*, pp. 235-265., Registrované v: SCOPUS
- ADCA787 YEN, T.Y. - MACHER, B.A. - BRYSON, S. - CHANG, X.Q. - TVAROŠKA, Igor - TSE, R. - TAKESHITA, S. - LEW, A.M. - DATTI, A. Highly conserved cysteines of mouse core 2 β 1,6-N-acetylglucosaminyltransferase I form a network of disulfide bonds and include a thiol that affects enzyme activity. In *Journal of Biological Chemistry*, 2003, vol. 278, p. 45864-45881. (6.696 - IF2002). (2003 - Current Contents). ISSN 0021-9258.
Citácie:
1. [1.1] Group Author(s): Uniprot Consortium. Q09324. In: *UniProt Knowledgebase Source* URL: <http://www.uniprot.org/uniprot/Q09324>, Registrované v: WOS
- ADCA788 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. (4.030 - IF2011). (2012 - Current Contents). ISSN 0305-7364.
Citácie:
1. [1.1] ATKINSON, Jonathan A. - WELLS, Darren M. An Updated Protocol for High Throughput Plant Tissue Sectioning. In *FRONTIERS IN PLANT SCIENCE*. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS
2. [1.1] MATUSZEK, Dominika B. - WOJTKIEWICZ, Krystian. APPLICATION OF FLUORESCENT MARKERS FOR HOMOGENEITY ASSESSMENT OF GRAIN MIXTURES BASED ON MAIZE CONTENT. In *CHEMICAL AND PROCESS ENGINEERING-INZYNIERIA CHEMICZNA I PROCESOWA*. ISSN 0208-6425, 2017, vol. 38, no. 4, pp. 505-512., Registrované v: WOS
- ADCA789 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] ERSANLI, Cem Cuneyt - KANTAR, Gunay Kaya - SASMAZ, Selami. Crystallographic, spectroscopic (FTIR and NMR) and quantum computational calculation studies on bis(2-methoxy-4-((E)-prop-1-enyl)phenyl)oxalate. In *JOURNAL OF MOLECULAR STRUCTURE*. ISSN 0022-2860, 2017, vol. 1143, no., pp. 318-327., Registrované v: WOS
- ADCA790 ZEMEK, J. - MARVANOVÁ, L. - KUNIAK, Ľ. - KADLEČÍKOVÁ, B. Hydrolytic enzymes in aquatic hyphomycetes. In *Folia microbiologica*, 1985, vol. 30, p. 363-372. ISSN 0015-5632.
Citácie:
1. [1.1] CANHOTO, Cristina - SIMOES, Sara - GONCALVES, Ana Lucia - GUILHERMINO, Lucia - BARLOCHER, Felix. Stream salinization and fungal-mediated leaf decomposition: A microcosm study. In *SCIENCE OF THE TOTAL ENVIRONMENT*. ISSN 0048-9697, 2017, vol. 599, no., pp. 1638-1645., Registrované v: WOS
- ADCA791 ZEMEK, Juraj - KUNIAK, Ľudovít - GEMEINER, Peter - ZÁMOCKÝ, Juraj - KUČÁR, Štefan. Crosslinked polyethylenimine: an enzyme carrier with spacers of various lengths introduced in crosslinking reaction. In *Enzyme and Microbial Technology*, 1982, vol. 4, p. 233-238. ISSN 0141-0229.
Citácie:
1. [1.1] VIRGEN-ORTIZ, Jose J. - DOS SANTOS, Jose C. S. - BERENGUER-MURCIA, Angel - BARBOSA, Oveimar - RODRIGUES, Rafael C. - FERNANDEZ-LAFUENTE, Roberto. Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. In *JOURNAL OF MATERIALS CHEMISTRY B*. ISSN 2050-750X, 2017, vol. 5, no. 36, pp. 7461-7490., Registrované v: WOS
- ADCA792 ZEMEK, Juraj - JEŽO, Ivan. Induction by α , α' -trehalose derivatives of α , α' -trehalase from *Saccharomyces cerevisiae* and *Aureobasidium pullulans*. In *Folia Microbiologica*, 1987, vol. 32, p. 417-420. ISSN 0015-5632.
Citácie:
1. [1.1] LIU, Tingting - ZHU, Liying - ZHANG, Zhiping - HUANG, He - ZHANG, Zhidong - JIANG, Ling. Protective role of trehalose during radiation and heavy metal stress in *Aureobasidium subglaciale* F134. In *SCIENTIFIC REPORTS*. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
- ADCA793 ZEMEK, Juraj - LINEK, Kazimír - KADLEČÍKOVÁ, B. - KUČÁR, Š. - SZOMOGYI, L.

Antimicrobial effect of sugar osazones and anhydro sugars. In *Folia Microbiologica*, 1985, vol. 30, p. 396-399. ISSN 0015-5632.

Citácie:

1. [1.1] CHEN, Zhongli - SCHMIDT, Burkhard - SCHAEFFER, Andreas. Uptake and decomposition of the herbicide propanil in the plant *Bidens pilosa* L. dominating in the Yangtze Three Gorges Reservoir (TGR), China. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. ISSN 0944-1344, 2017, vol. 24, no. 12, pp. 11141-11153., Registrované v: WOS

ADCA794

ZEMEK, Juraj - KOŠÍKOVÁ, Božena - AUGUSTÍN, J. - JONIAK, Dušan. Antimicrobial effects of lignin compounds. In *Folia Microbiologica*, 1979, vol. 24, p. 483-486. ISSN 0015-5632.

Citácie:

1. [1.1] BAHİ, Addie - SHAO, Jianzhong - MOHSENI, Madjid - KO, Frank K. Membranes based on electrospun lignin-zeolite composite nanofibers. In *SEPARATION AND PURIFICATION TECHNOLOGY*. ISSN 1383-5866, 2017, vol. 187, no., pp. 207-213., Registrované v: WOS
 2. [1.1] BEISL, Stefan - FRIEDL, Anton - MILTNER, Angela. Lignin from Micro- to Nanosize: Applications. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 11, pp., Registrované v: WOS
 3. [1.1] GABOV, Konstantin - OJA, Terhi - DEGUCHI, Takahiro - FALLARERO, Adyary - FARDIM, Pedro. Preparation, characterization and antimicrobial application of hybrid cellulose-lignin beads. In *CELLULOSE*. ISSN 0969-0239, 2017, vol. 24, no. 2, pp. 641-658., Registrované v: WOS
 4. [1.1] VAINIO-KAILA, Tiina - ZHANG, Xue - HANNINEN, Tuomas - KYHKYNNEN, Aino - JOHANSSON, Leena-Sisko - WILLFOR, Stefan - OSTERBERG, Monika - SIITONEN, Anja - RAUTKARI, Lauri. Antibacterial Effects of Wood Structural Components and Extractives from *Pinus sylvestris* and *Picea abies* on Methicillin-Resistant *Staphylococcus aureus* and *Escherichia coli* O157: H7. In *BIORESOURCES*. ISSN 1930-2126, 2017, vol. 12, no. 4, pp. 7601-7614., Registrované v: WOS

ADCA795

ZITKO, V. - ROSÍK, Jozef - BRUTENIČOVÁ, M. - KUBALA, Jozef. Some structural features of apricot-tree gum (*Prunus armenica* L.). In *Collection of Czechoslovak Chemical Communications*, 1965, vol. 30, p. 3501-3512. ISSN 0010-0765.

Citácie:

1. [1.1] SHAMSARA, Omid - JAFARI, Seid Mahdi - MUHIDINOV, Zayniddin K. Fabrication, characterization and stability of oil in water nano-emulsions produced by apricot gum-pectin complexes. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 103, no., pp. 1285-1293., 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.

Citácie:

1. [1.1] BROSEL-OLIU, Sergi - GALYAMIN, Dmitry - ABRAMOVA, Natalia - MUNOZ-PASCUAL, Francesc-Xavier - BRATOV, Andrey. Impedimetric label-free sensor for specific bacteria endotoxin detection by surface charge registration. In *ELECTROCHIMICA ACTA*. ISSN 0013-4686, 2017, vol. 243, no., pp. 142-151., Registrované v: WOS
 2. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
 3. [1.1] FIGUEIROA, Evelyne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS
 4. [1.1] HASHIM, Onn Haji - JAYAPALAN, Jaime Jacqueline - LEE, Cheng-Siang. Lectins: an effective tool for screening of potential cancer biomarkers. In *PEERJ*. ISSN 2167-8359, 2017, vol. 5, no., pp., Registrované v: WOS
 5. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In *BIOSENSORS & BIOELECTRONICS*. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS

6. [1.1] KUBO, Takuya - FURUTA, Hayato - NAITO, Toyohiro - SANO, Tomoharu - OTSUKA, Koji. Selective adsorption of carbohydrates and glycoproteins via molecularly imprinted hydrogels: application to visible detection by a boronic acid monomer. In *CHEMICAL COMMUNICATIONS*. ISSN 1359-7345, 2017, vol. 53, no. 53, pp. 7290-7293., Registrované v: WOS
7. [1.1] SAMOILOVA, Nadezhda A. - KRAYUKHINA, Maria A. - BABUSHKINA, Tatyana A. - YAMSKOV, Igor A. - LIKHOSHERSTOV, Leonid M. - PISKAREV, Vladimir E. Silver- and gold-labeled colloidal and crosslinked glycopolymers based on glycol glycosynthons and maleic anhydride copolymers for lectin binding. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2017, vol. 134, no. 16, pp., Registrované v: WOS
8. [1.1] SILVA, M. Luisa S. - RANGEL, Maria G. H. A *Vicia villosa* agglutinin biosensor for cancer-associated Tn antigen. In *SENSORS AND ACTUATORS B-CHEMICAL*. ISSN 0925-4005, 2017, vol. 252, no., pp. 777-784., Registrované v: WOS
9. [1.1] XIA, Ning - CHENG, Cheng - LIU, Lin - PENG, Peizhen - LIU, Chaoyang - CHEN, Junxue. Electrochemical glycoprotein aptasensors based on the in-situ aggregation of silver nanoparticles induced by 4-mercaptophenylboronic acid. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 11, pp. 4393-4400., Registrované v: WOS
10. [1.2] SAMOILOVA, N. A. - KRAYUKHINA, M. A. - LIKHOSHERSTOV, L. M. - YAMSKOV, I. A. - PISKAREV, V. E. Lectins: A new approach to their sensing and isolation. In *Advances in Chemistry Research*, 2017-10-01, 41, pp. 91-143., Registrované v: SCOPUS

ADCB02 MORAVSKÝ, Ladislav - KLAS, Matej - MACHOVÁ, Eva - PISKLOVÁ, Katarína - MATEJČÍK, Štefan. Influence of a plasma jet on the viability of *Candida albicans*. In *Open Chemistry*, 2015, vol. 13, p. 257-262. ISSN 2391-5420.

Citácie:

1. [1.2] DORIA, A. C.O.C. - FIGUEIRA, F. R. - LIMA, J. S.B. - MACIEL, H. S. - KHOURI, S. - PESSOA, R. S. Sterilization of *Candida albicans* biofilms grown on polymers by atmospheric plasma: From plasma devices to biofilm analysis. In *Biofilms Characterization, Applications and Recent Advances*, 2016-01-01, pp. 225-273., Registrované v: SCOPUS
2. [1.2] Mance, D., Geilmann, H., Brand, W. A., Kewitz, T., & Kersten, H. (2017). Changes of ^{2}H and ^{18}O abundances in water treated with non-thermal atmospheric pressure plasma jet. *Plasma Processes and Polymers*, 14(10), Registrované v: SCOPUS

*ADD Vedecké práce v domácich karentovaných časopisoch

ADD01 BUKOVSKY, M. - KARDOŠOVÁ, Alžbeta - KOSCOVA, H. - KOSTALOVA, D. Immunomodulating activity of 4-O-methyl-D-glucurono-D-xylan from *Rudbeckia fulgida*, var. *sullivantii*. In *Biologia*. - Warszawa : Verita, 2012-, 1998, vol. 53, p. 771. (0.283 - IF1997). (1998 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] QIN, Guangqiu - WEN, Pingjing - WANG, Yanwu - ZHANG, Lujuan - LIANG, Huili - QIN, Huiyan - TANG, Song - ZHAO, Peng. Safety assessment of xylan by a 90-day feeding study in rats. In *REGULATORY TOXICOLOGY AND PHARMACOLOGY*. ISSN 0273-2300, 2017, vol. 85, no., pp. 1-6., Registrované v: WOS
2. [1.2] Ashter, S. A. (2017). In *Technology and Applications of Polymers Derived from Biomass* (Elsevier, pp. 1-272)., Registrované v: SCOPUS
3. [1.2] LOBERG, L. I. - ARCHER, K. A. Assessment of Innate Immunity. In *Comprehensive Toxicology: Third Edition*, 2017-12-15, 11-15, pp. 343-360., Registrované v: SCOPUS

ADD02 KARDOŠOVÁ, Alžbeta. Polysaccharides from the leaves of *Plantago lanceolata* L., var. *Libor*: an alpha-D-glucan. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1992, vol. 46, p. 127. ISSN 0366-6352.

Citácie:

1. [1.1] LUKOVA, P. K. - KARCHEVA-BAHCHEVANSKA, D. P. - NIKOLOVA, M. M. - ILIEV, Ilia N. - MLADENOV, R. D. Comparison of structure and antioxidant activity of polysaccharides extracted from the leaves of *Plantago major* L., *P. media* L. and *P. lanceolata* L. In *BULGARIAN CHEMICAL COMMUNICATIONS*. ISSN 0324-1130, 2017, vol. 49, no., pp. 282-288., Registrované v: WOS

ADD03 KARDOŠOVÁ, Alžbeta - DANIS, J. - ALFÖLDI, J. Extracellular phosphogalactomannan of *Candida mucifera* CCY 29-170-1 strain. In *Chemical papers*. - Heidelberg : Springer-Verlag, 2017-, 1994, vol. 48, p. 189. ISSN 0366-6352.

Citácie:

1. [1.1] GERBST, Alexey G. - NIKOLAEV, Andrei V. - YASHUNSKY, Dmitry V. - SHASHKOV, Alexander S. - DMITRENOK, Andrey S. - NIFANTIEV, Nikolay E. Theoretical and NMR-based Conformational Analysis of Phosphodiester-linked Disaccharides. In *SCIENTIFIC REPORTS*.

- ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS
- ADD04 TVAROSKA, 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. (3.395 - IF1995). ISSN 0022-3654.
- Citácie:
1. [1.1] MARTINS, Francisco A. - SILLA, Josue M. - FREITAS, Matheus P. Theoretical study on the anomeric effect in alpha-substituted tetrahydropyrans and piperidines. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 451, no., pp. 29-35., 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 - LAUDAUD, Johann - DUFOUR, Alain - BAZIRE, Alexis - LANNELUC, Isabelle - SABLE, Sophie. Cell-bound exopolysaccharides from an axenic culture of the intertidal mudflat *Navicula phyllepta* diatom affect biofilm formation by benthic bacteria. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2017, vol. 29, no. 1, pp. 165-177., Registrované v: WOS
- ADDA02 BABOR, Karol - HALÁSOVÁ, Gabriela - DODOK, L. - GÉCIOVÁ, Renáta - LOKAJ, Ján. Characterization of starch from *Amaranthus cruentus*. In Chemical Papers, 1994, vol. 48, p. 58-63.
- Citácie:
1. [1.1] ZHU, Fan. Structures, physicochemical properties, and applications of amaranth starch. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2017, vol. 57, no. 2, pp. 313-325., Registrované v: WOS
- ADDA03 BELICKÝ, Štefan - TKÁČ, Ján. Can glycoprofiling be helpful in detecting prostate cancer? In Chemical Papers, 2015, vol. 69, p.90-111. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] IBAU, Conlathan - ARSHAD, M. K. Md - GOPINATH, Subash C. B. Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 98, no., pp. 267-284., Registrované v: WOS
2. [1.1] SHARMA, Shikha - ZAPATERO-RODRIGUEZ, Julia - O'KENNEDY, Richard. Prostate cancer diagnostics: Clinical challenges and the ongoing need for disruptive and effective diagnostic tools. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, 2017, vol. 35, no. 2, pp. 135-149., Registrované v: WOS
3. [1.1] TREFULKA, Mojmir - PALECEK, Emil. Distinguishing glycan isomers by voltammetry. Modification of 2,3-sialyllactose and 2,6-sialyllactose by osmium(VI) complexes. In ELECTROCHEMISTRY COMMUNICATIONS. ISSN 1388-2481, 2017, vol. 85, no., pp. 19-22., Registrované v: WOS
- ADDA04 BERTÓKOVÁ, Anikó, Illéssová - BERTÓK, Tomáš - FILIP, Jaroslav - TKÁČ, Ján. Gluconobacter sp. cells for manufacturing of effective electrochemical biosensors and biofuel cells. In Chemical Papers, 2015, vol. 69, p. 27-41. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] ASLAN, Sema - O CONGHAILE, Peter - LEECH, Donal - GORTON, Lo - TIMUR, Suna - ANIK, Ulku. Development of a Bioanode for Microbial Fuel Cells Based on the Combination of a MWCNT-Au-Pt Hybrid Nanomaterial, an Osmium Redox Polymer and Gluconobacter oxydans DSM 2343 Cells. In CHEMISTRYSELECT. ISSN 2365-6549, 2017, vol. 2, no. 36, pp. 12034-12040., Registrované v: WOS
2. [1.1] RESHETILOV, A. N. - PLEKHANOVA, J. V. - TARASOV, S. E. - BYKOV, A. G. - GUTOROV, M. A. - ALFEROV, S. V. - TENCHURIN, T. K. - CHVALUN, S. N. - OREKHOV, A. S. - SHEPELEV, A. D. - GOTOVTSEV, P. M. - VASILOV, R. G. Evaluation Properties of Bioelectrodes Based on Carbon Superfine Materials Containing Model Microorganisms Gluconobacter. In NANOTECHNOLOGIES IN RUSSIA. ISSN 1995-0780, 2017, vol. 12, no. 1-2, pp. 107-115., Registrované v: WOS
3. [1.1] RESHETILOV, A. N. - PLEKHANOVA, Yu. V. - TARASOV, S. E. - ARLYAPOV, V. A. - KOLESOV, V. V. - GUTOROV, M. A. - GOTOVTSEV, P. M. - VASILOV, R. G. Effect of Some Carbon Nanomaterials on Ethanol Oxidation by Gluconobacter oxydans Bacterial Cells. In APPLIED BIOCHEMISTRY AND MICROBIOLOGY. ISSN 0003-6838, 2017, vol. 53, no. 1, pp. 123-129., Registrované v: WOS
- ADDA05 BÍLIKOVÁ, Katarína - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Characterization of the basic major

royal jelly protein MRJP2 of honeybee (*Apis mellifera*) and its preparation by heterologous expression in E-coli. In *Biologia : journal of the Slovak Academy of Science*, 1999, vol. 54, p. 733-739. (0.194 - IF1998). (1999 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.2] MENG, Chao - XIAO, Kaiwen - ZHENG, Shuangyan - MU, Songniu - FANG, Wenjing - XU, Baohua. Anti-fatigue Activity of MRJPs from Fresh Royal Jelly in Mice. In *Journal of Chinese Institute of Food Science and Technology*. ISSN 10097848, 2017-10-30, 17, 10, pp. 23-29., Registrované v: SCOPUS

ADDA06

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] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS
2. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS

ADDA07

BÍLIK, Vojtech - PETRUŠ, Ladislav - FARKAŠ, Vladimír. Reactions of saccharides catalyzed by molybdate ions. XV. Mechanism of epimerization reaction.

Citácie:

1. [1.1] PELCKMANS, Michiel - VERMANDEL, Walter - VAN WAES, Frederik - MOONEN, Kristof - SELS, Bert F. Low-Temperature Reductive Aminolysis of Carbohydrates to Diamines and Aminoalcohols by Heterogeneous Catalysis. In *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. ISSN 1433-7851, 2017, vol. 56, no. 46, pp. 14540-14544., Registrované v: WOS
2. [1.1] ZHANG, Wenhui - MEREDITH, Reagan - YOON, Mi-Kyung - CARMICHAEL, Ian - SERIANNI, Anthony S. Saccharide Structure and Reactivity Interrogated with Stable Isotopes. In *STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL, VOL 1*. ISSN 0097-6156, 2017, vol. 1257, no., pp. 105-153., Registrované v: WOS

ADDA08

BÍLIK, Vojtech - KNĚZEK, I. Reaction of saccharides catalyzed by molybdate ions. XLV. Utilization of molybdic and peroxomolybdic acids for preparation of aldoses. In *Chemical Papers - Chemické zvesti*, 1992, vol. 46, p. 193-195. ISSN 0366-6352.

Citácie:

1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS

ADDA09

BÍLIK, Vojtech - SANDTNEROVÁ, Ružena - KRÁTKY, Zdeno - PETRUŠ, Ladislav. Reactions of saccharides catalyzed by molybdate ions. XXX. Epimerization of D-[U-14C]glucuronic acid. In *Chemical Papers - Chemické zvesti*, 1980, vol. 34, p. 518-523. ISSN 0366-6352.

Citácie:

1. [1.1] BAN, Chunghyeon - JEON, Wonjin - PARK, Geonu - WOO, Hee Chul - KIM, Do Heui. Hydrothermal Conversion of Alginate into Uronic Acids over a Sulfonated Glucose-Derived Carbon Catalyst. In *CHEMCATCHEM*. ISSN 1867-3880, 2017, vol. 9, no. 2, pp. 329-337., Registrované v: WOS

ADDA10

BÍLIK, Vojtech - STANKOVIČ, Ľudovít. Reactions of saccharides catalyzed by molybdate ions. VI. Epimerization of aldotetroses. In *Chemické zvesti*, 1973, vol. 27, p. 544-546. ISSN 0366-6352.

Citácie:

1. [1.1] ZHANG, Wenhui - MEREDITH, Reagan - YOON, Mi-Kyung - CARMICHAEL, Ian - SERIANNI, Anthony S. Saccharide Structure and Reactivity Interrogated with Stable Isotopes. In *STEREOCHEMISTRY AND GLOBAL CONNECTIVITY: THE LEGACY OF ERNEST L ELIEL, VOL 1*. ISSN 0097-6156, 2017, vol. 1257, no., pp. 105-153., Registrované v: WOS

ADDA11

BUČKO, Marek - MISLOVIČOVÁ, Danica - NAHÁLKA, Jozef - VIKARTOVSKÁ, Alica, Welwardová - ŠEĎČOVIČOVÁ, Jana, Blahutová - 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. (1.096 - IF2011). (2012 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] SHARMA, S.K. - LEBLANC, R.M. Biosensors based on beta-galactosidase enzyme: Recent advances and perspectives. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, OCT 15 2017,

- vol. 535, p. 1-11., Registrované v: WOS
2. [1.1] ZHUANG, W. - LIU, X.J. - YANG, J. - WU, J.L. - ZHOU, J.W. - CHEN, Y. - LIU, D. - YING, H.J. Immobilization of *Clostridium acetobutylicum* onto natural textiles and its fermentation properties. In MICROBIAL BIOTECHNOLOGY. ISSN 1751-7915, MAR 2017, vol. 10, no. 2, SI, p. 502-512., Registrované v: WOS
- ADDA12 CAPEK, Peter - KARDOŠOVÁ, Alžbeta - LATH, Dieter. A neutral heteropoly-saccharide from the flowers of *Malva mauritiana* L. In Chemical Papers - Chemické zvesti, 1999, vol. 53, p. 131-136. (0.140 - IF1998). ISSN 0366-6352.
- Citácie:
1. [1.1] BERA, Kaushik - RAY, Sayani - RAJA, Washim - RAY, Bimalendu. Structural insight of an antioxidative arabinogalactan protein of *Aegle marmelos* fruit gum and it's interaction with beta-lactoglobulin. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 99, no., pp. 300-307., Registrované v: WOS
2. [1.1] MASSEY, Shazma - MACNAUGHTAN, William - WILLIAMS, Huw E. L. - WOLF, Bettina - IQBAL, Mohammad S. A structural study of *Acacia nilotica* and *Acacia modesta* gums. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 207-215., Registrované v: WOS
- ADDA13 CAPEK, Peter - KARDOŠOVÁ, Alžbeta. Structural characterization of an acidic heteropolysaccharide from *Rudbeckia fulgida*, var. *sullivantii* (Boynton et Beadle). In Chemical Papers - Chemické zvesti, 2001, vol. 35, p. 311-318. ISSN 0366-6352.
- Citácie:
1. [1.1] MOLDOVAN, Zenovia - BULEANDRA, Mihaela - OPREA, Eliza - MINEA, Zamfirica. Studies on Chemical Composition and Antioxidant Activity of *Rudbeckia triloba*. In JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY. ISSN 2090-8865, 2017, vol., no., pp., Registrované v: WOS
- ADDA14 DAMBORSKÝ, Pavel - MADABOOSI, Narayanan - CHU, Virginia - CONDE, João P. - KATRLÍK, Jaroslav. Surface plasmon resonance application in prostate cancer biomarker research. In Chemical Papers, 2015, vol. 69, p. 143-149. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] BUENO, L. - DE ARAUJO, W. R. - PAIXAO, T. R. L. C. Point of care (POC) medical biosensors for cancer detection. In MEDICAL BIOSENSORS FOR POINT OF CARE (POC) APPLICATIONS. ISSN 2049-9485, 2017, vol. 118, no., pp. 183-201., Registrované v: WOS
2. [1.1] BUENO, L. - DE ARAUJO, W. R. - PAIXAO, T. R. L. C. Point of care (POC) medical biosensors for cancer detection. In MEDICAL BIOSENSORS FOR POINT OF CARE (POC) APPLICATIONS. ISSN 2049-9485, 2017, vol. 118, no., pp. 183-201., Registrované v: WOS
3. [1.1] DAMBORSKA, Dominika - BERTOK, Tomas - DOSEKOVA, Erika - HOLAZOVA, Alena - LORENCOVA, Lenka - KASAK, Peter - TKAC, Jan. Nanomaterial-based biosensors for detection of prostate specific antigen. In MICROCHIMICA ACTA. ISSN 0026-3672, 2017, vol. 184, no. 9, pp. 3049-3067., Registrované v: WOS
4. [1.1] PAIVA, Telmo O. - ALMEIDA, Ines - MARQUES, Joaquim T. - LIU, Wei - NIU, Yu - JIN, Gang - VIANA, Ana S. Nanostructured interfaces with site-specific bioreceptors for immunosensing. In APPLIED SURFACE SCIENCE. ISSN 0169-4332, 2017, vol. 412, no., pp. 455-463., Registrované v: WOS
- ADDA15 DŘÍMAL, Ján - KNEZL, Vladimír - PAULOVICHOVÁ, Ema - DŘÍMAL, Daniel. Enhanced early after-myocardial infarction concentration of TNF- α subsequently increased circulating and myocardial adrenomedullin in spontaneously hypertensive rats. In General physiology and biophysics : international journal, 2008, vol. 27, no.1, p.12-18. (1.286 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0231-5882.
- Citácie:
1. [1.1] SIMPSON, Nick J. - FERGUSON, Alastair V. The proinflammatory cytokine tumor necrosis factor- α excites subfornical organ neurons. In JOURNAL OF NEUROPHYSIOLOGY. ISSN 0022-3077, 2017, vol. 118, no. 3, p. 1532-1541., Registrované v: WOS
- ADDA16 FARKAŠ, Pavol - BYSTRICKÝ, Slavomír. Chemical conjugation of biomacromolecules: A mini-review. In Chemical papers, 2010, vol. 64, p. 683-695. (0.791 - IF2009). (2010 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] LAUKO, Jan - KOUWER, Paul H. J. - ROWAN, Alan E. 1H-1,2,3-Triazole: From Structure to Function and Catalysis. In JOURNAL OF HETEROCYCLIC CHEMISTRY. ISSN 0022-152X, 2017, vol. 54, no. 3, pp. 1677-1699., Registrované v: WOS
2. [1.1] YANG, Jinsong - QIU, Yongchang - PAN, Luying. Generation of assay positive controls for detection of isotype anti-drug antibodies for immunogenicity monitoring. In BIOANALYSIS. ISSN 1757-6180, 2017, vol. 9, no. 20, pp. 1603-1615., Registrované v: WOS

- ADDA17 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] JAMES, Olusola O. - SAUTER, Waldemer - SCHROEDER, Uwe. *Electrochemistry for the Generation of Renewable Chemicals: One-Pot Electrochemical Deoxygenation of Xylose to Valerolactone*. In CHEMSUSCHEM. ISSN 1864-5631, 2017, vol. 10, no. 9, pp. 2015-2022., Registrované v: WOS
- ADDA18 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. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.1] AL-ANI, Lina A. - ALSAADI, Mohammed A. - KADIR, Farkaad A. - HASHIM, Najihah M. - JULKAPLI, Nurhidayatullaili M. - YEHYE, Wageeh A. *Graphene- gold based nanocomposites applications in cancer diseases; Efficient detection and therapeutic tools*. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2017, vol. 139, no., pp. 349-366., Registrované v: WOS
2. [1.1] DA SILVA, Jussara Vieira - BRITO MADURRO, Ana Graci - MADURRO, Joao Marcos. *Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization*. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2017, vol. 21, no. 7, pp. 2129-2139., Registrované v: WOS
- ADDA19 FILIPPOV, M.P. - LUKNÁR, O. - KOHN, Rudolf. Infrared spectra of the acetyl derivatives of pectin. I. Potassium salts of the citrus pectic acid with different degrees of acetylation. In Chemické zvesti, 1978, vol. 32, p. 211-217. ISSN 0366-6352.
Citácie:
1. [1.1] GEORGIEV, Yordan N. - PAULSEN, Berit S. - KIYOHARA, Hiroaki - CIZ, Milan - OGNJANOV, Manol H. - VASICEK, Ondrej - RISE, Frode - DENEV, Petko N. - LOJEK, Antonin - BATSALOVA, Tsvetelina G. - DZHAMBASOV, Balik M. - YAMADA, Haruki - LUND, Reidar - BARSETT, Hilde - KRASTANOV, Albert I. - YANAKIEVA, Irina Z. - KRATCHANOVA, Maria G. *Tilia tomentosa pectins exhibit dual mode of action on phagocytes as beta-glucuronic acid monomers are abundant in their rhamnogalacturonans I*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 175, no., pp. 178-191., Registrované v: WOS
- ADDA20 FILIPPOV, M.P. - KOHN, Rudolf. Determination of composition of alginates by infrared spectroscopic method. In Chemické zvesti, 1974, vol. 28, p. 817-819. ISSN 0366-6352.
Citácie:
1. [1.1] AYARZA, Jorge - COELLO, Yves - NAKAMATSU, Javier. *SEM-EDS study of ionically cross-linked alginate and alginic acid bead formation*. In INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION. ISSN 1023-666X, 2017, vol. 22, no. 1, pp. 1-10., Registrované v: WOS
2. [1.1] LANDA-CANSIGNO, Cristina - HERNANDEZ-CARMONA, Gustavo - LUZ ARVIZU-HIGUERA, Dora - MUNOZ-OCHOA, Mauricio - JUDITH HERNANDEZ-GUERRERO, Claudia. *Bimonthly variation in the chemical composition and biological activity of the brown seaweed Eisenia arborea (Laminariales: Ochrophyta) from Bahia Magdalena, Baja California Sur, Mexico*. In JOURNAL OF APPLIED PHYCOLOGY. ISSN 0921-8971, 2017, vol. 29, no. 5, pp. 2605-2615., Registrované v: WOS
3. [1.1] PATEL, Mitulkumar A. - ABOUGHALY, Mohamed H. H. - SCHRYER-PRAGA, Jacqueline V. - CHADWICK, Keith. *The effect of ionotropic gelation residence time on alginate cross-linking and properties*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 155, no., pp. 362-371., Registrované v: WOS
4. [1.1] YOUSOUF, Latufa - LALLEMAND, Laura - GIRAUD, Pierre - SOULE, Faiza - BHAW-LUXIMON, Archana - MEILHAC, Olivier - D'HELLENCOURT, Christian Lefebvre - JHURRY, Dhanjay - COUPRIE, Joel. *Ultrasound-assisted extraction and structural characterization by NMR of alginates and carrageenans from seaweeds*. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 166, no., pp. 55-63., Registrované v: WOS
- ADDA21 FILIPPOV, M.P. - KOHN, Rudolf. Determination of the esterification degree of carboxyl groups of pectin with methanol by means of infrared spectroscopy. In Chemické zvesti, 1975, vol. 29, p. 88-91. ISSN 0366-6352.
Citácie:
1. [1.1] PODGORSKA, Anna - BURIAN, Maria - GIECZEWSKA, Katarzyna - OSTASZEWSKA-BUGAJSKA, Monika - ZEBROWSKI, Jacek - SOLECKA, Danuta - SZAL, Bozena. *Altered Cell Wall Plasticity Can Restrict Plant Growth under Ammonium Nutrition*. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, 2017, vol. 8, no., pp., Registrované v: WOS

- ADDA22 HIRSCH, Ján - KOŇŠ, Miroslav. Simple synthesis of methyl 2-O- β -D-xylopyranosyl- α -L-arabinofuranoside, a fragment of natural arabinoglucuronoxylans. In Chemical Papers - Chemické zvesti, 2005, vol. 59, p. 21-24. ISSN 0366-6352.
Citácie:
1. [1.1] IGA, Dumitru Petru - POPESCU, Dumitru - DUICA, Florentina. The Use of Exoglycosidases for the Assay of Two New Enzymatic Substrates, beta-D-xylopyranosyl-4-nitrocatechol-1-yl and alpha-lactosyl-4-nitrocatechol-1-yl. In REVISTA DE CHIMIE. ISSN 0034-7752, 2017, vol. 68, no. 8, pp. 1771-1775., Registrované v: WOS
- ADDA23 HLAVATÝ, Jaroslav - KARACSONYI, Štefan - ALFOLDI, Juraj. Preparation of methyl 6-O- β -D-galactopyranosyl- α - and β -D-galactopyranosides. In Chemical Papers - Chemické zvesti, 1988, vol. 42, p. 519-525. ISSN 0366-6352.
Citácie:
1. [1.1] PATEL, Krishnakant - SONG, Fengling - ANDREANA, Peter R. Synthesis of substrate analogues as potential inhibitors for Mycobacterium tuberculosis enzyme MshC. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 453-454, no., pp. 10-18., Registrované v: WOS
- ADDA24 HRABÁROVÁ, Eva - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Pro-oxidative effect of peroxydinitrite regarding biological systems: a special focus on high-molar-mass hyaluronan degradation. In General Physiology and Biophysics, 2011, vol. 30, p. 223-238. (1.146 - IF2010). (2011 - Current Contents). ISSN 0231-5882.(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 hyaluronan, 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. [1.1] COWMAN, Mary K. Hyaluronan and Hyaluronan Fragments. In ADVANCES IN CARBOHYDRATE CHEMISTRY AND BIOCHEMISTRY, VOL 74. ISSN 0065-2318, 2017, vol. 74, pp. 1-59., Registrované v: WOS
2. [1.1] ISLAM, M.A. - AL MAMUN, M.A. - FARUK, M. - UL ISLAM, M.T. - RAHMAN, M.M. - ALAM, M.N. - RAHMAN, A.F.M.T. - REZA, H.M. - ALAM, M.A. Astaxanthin Ameliorates Hepatic Damage and Oxidative Stress in Carbon Tetrachloride-administered Rats. In PHARMACOGNOSY RESEARCH. ISSN 0974-8490, 2017, vol. 9, p. S84-S91., Registrované v: WOS
3. [1.1] KOŁODZIEJCZYK-CZEPAS, J. - KRZYŻANOWSKA-KOWALCZYK, J. - SIERADZKA, M. - NOWAK, P. - STOCHMAL, A. Clovamide and clovamide-rich extracts of three Trifolium species as antioxidants and moderate antiplatelet agents in vitro. In PHYTOCHEMISTRY. ISSN 0031-9422, 2017, vol. 143, p. 54-63., Registrované v: WOS
4. [1.1] TUNC-ATA, M. - MERGEN-DALYANOGLU, M. - TURGUT, S. - TURGUT, G. Effect of acute and chronic exercise on plasma matrix metalloproteinase and total antioxidant levels. In JOURNAL OF EXERCISE REHABILITATION. ISSN 2288-176X, 2017, vol. 13, no. 5, p. 508-513., Registrované v: WOS
- ADDA25 HROMÁDKOVÁ, Zdenka - HIRSCH, Ján - EBRINGEROVÁ, Anna. Chemical evaluation of Fallopia species leaves and antioxidant properties of their non-cellulosic polysaccharides. In Chemical papers, 2010, vol. 64, p. 663-672. (0.791 - IF2009). (2010 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.1] KOCE, Jasna Dolenc - SOLN, Katarina. Phytotoxic effects of Fallopia japonica and F.xbohemica leaves. In PHYTON-ANNALES REI BOTANICAE. ISSN 0079-2047, 2017, vol. 57, no. 1-2, pp. 47-58., Registrované v: WOS
- ADDA26 HROMÁDKOVÁ, Zdenka - EBRINGEROVÁ, Anna. Isolation and characterization of hemicelluloses of corn hulls. In Chemical Papers - Chemické zvesti, 1995, vol. 49, p. 97-101. ISSN 0366-6352.
Citácie:
1. [1.1] ALI, Amjad - YU, Long - LIU, Hongsheng - KHALID, Saud - MENG, Linghan - CHEN, Ling. Preparation and characterization of starch-based composite films reinforced by corn and wheat hulls. In JOURNAL OF APPLIED POLYMER SCIENCE. ISSN 0021-8995, 2017, vol. 134, no. 32, pp., Registrované v: WOS
- ADDA27 HÚSKA, J. - ZÁVADSKÁ, I. - TÓTH, D. - DOBROTOVÁ, M. - GEMEINER, Peter. Immobilization of surfactant degrading bacteria in alginate gel. In Biologia, 1996, vol. 51, p. 279-283. (0.079 - IF1995). (1996 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] SIMO, Guillermo - FERNANDEZ-FERNANDEZ, Encarnacion - VILA-CRESPO, Josefina - RUIPEREZ, Violeta - MANUEL RODRIGUEZ-NOGALES, Jose. *Research progress in coating techniques of alginate gel polymer for cell encapsulation. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 170, no., pp. 1-14., Registrované v: WOS*
- ADDA28 JÚDOVÁ, Jana - KLAUDINY, Jaroslav - ŠIMÚTH, Jozef. Preparation of recombinant most abundant protein MRJP1 of royal jelly. In *Biologia*, 1998, vol. 53, p. 777-784. (0.283 - IF1997). (1998 - Current Contents). ISSN 0006-3088.
- Citácie:
1. [1.2] ZHAO, Fangyuan - CHEN, Ying - WU, Yajun - GE, Yiqiang. *Cloning of AmMRJP5 Gene from Apis mellifera L. and Its Prokaryotic Expression. In Journal of Chinese Institute of Food Science and Technology. ISSN 10097848, 2017-09-30, 17, 9, pp. 220-226., Registrované v: SCOPUS*
- ADDA29 KAČÍKOVÁ, Danica - KAČÍK, František - BUBENÍKOVÁ, Tatiana - KOŠÍKOVÁ, Božena. Influence of fire on spruce wood lignin changes. In *Wood Research : Vol. 53, no. 4 (2009)*, pp. 95-104. ISSN 1336-4561.
- Citácie:
1. [1.1] OKON, Kufre Edet - LIN, Fengcai - CHEN, Yandan - HUANG, Biao. *Effect of silicone oil heat treatment on the chemical composition, cellulose crystalline structure and contact angle of Chinese parasol wood. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 164, no., pp. 179-185., Registrované v: WOS*
2. [1.1] ZACHAR, Martin - MAJLINGOVA, Andrea - MITTEROVA, Iveta - CABALOVA, Iveta. *INFLUENCE OF AN AGE AND DAMAGE OF THE OAK WOOD ON ITS FIRE RISK. In WOOD RESEARCH. ISSN 1336-4561, 2017, vol. 62, no. 3, pp. 495-504., Registrované v: WOS*
- ADDA30 KLAUDINY, Jaroslav - BACHANOVA, K. - KOHÚTOVÁ, Lenka - DZÚROVÁ, Mária - KOPERNICKY, J. - MAJTÁN, Juraj. Expression of larval jelly antimicrobial peptide defensin1 in *Apis mellifera* colonies. In *Biologia : journal of the Slovak Academy of Science*, 2012, vol. 67, no. 1, p. 200-211. (0.557 - IF2011). (2012 - Current Contents). ISSN 0006-3088.
- Citácie:
1. [1.1] LOPEZ-URIBE, Margarita M. - FITZGERALD, Andrea - SIMONE-FINSTROM, Michael. *Inducible versus constitutive social immunity: examining effects of colony infection on glucose oxidase and defensin-1 production in honeybees. In ROYAL SOCIETY OPEN SCIENCE. ISSN 2054-5703, 2017, vol. 4, no. 5, pp., Registrované v: WOS*
2. [1.1] STASTNY, Matus - GASPER, Jaroslav - BAUER, Miroslav. *Genetic structure of Apis mellifera carnica in Slovakia based on microsatellite DNA polymorphism. In BIOLOGIA. ISSN 0006-3088, 2017, vol. 72, no. 11, pp. 1341-1346., Registrované v: WOS*
3. [1.2] Fuselli, S. R., Cugnata, N. M., Marínez, P. G., & Alonso-Salces, R. M. (2017). *In Control and Prevention of American Foulbrood in Honey Bees (Nova Science Publishers, pp. 1-128), Registrované v: SCOPUS*
- ADDA31 KOHN, Rudolf. Potentiometric titration of polyuronic acids. In *Chemické zvesti*, 1973, vol. 27, p. 218-226. ISSN 0366-6352.
- Citácie:
1. [1.1] PIVOKONSKY, M. - NACERADSKA, J. - KOPECKA, I. - BARESOVA, M. - JEFFERSON, B. - LI, X. - HENDERSON, R. K. *The impact of algogenic organic matter on water treatment plant operation and water quality: A review. In CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1064-3389, 2016, vol. 46, no. 4, pp. 291-335., Registrované v: WOS*
- ADDA32 KOHÚTOVÁ, Lenka - KLAUDINY, Jaroslav - NÁDAŠDY, Róbert - ŠEDIVÁ, Mária - KOPERNICKY, J. - MAJTÁN, Juraj. Identification and validation of reference genes for real time PCR expression studies in heads of nurse honeybees. In *Biologia : Journal of the Slovak Academy of Sciences*, 2013, vol. 68, no. 6, p. 1211-1220. (0.506 - IF2012). (2013 - Current Contents). ISSN 0006-3088.
- Citácie:
1. [1.1] STASTNY, Matus - GASPER, Jaroslav - BAUER, Miroslav. *Genetic structure of Apis mellifera carnica in Slovakia based on microsatellite DNA polymorphism. In BIOLOGIA. ISSN 0006-3088, 2017, vol. 72, no. 11, pp. 1341-1346., Registrované v: WOS*
- ADDA33 KOLAROVA, Nadežda - FARKAŠ, Vladimír. Xylanases, laminarinases and glucoamylases in the cellulolytic enzyme system from *Trichoderma reesei*. In *Biologia*, 1983, vol. 38, p. 721-725. ISSN 0006-3088.
- Citácie:
1. [1.1] MARTIN, Carlos - WEI, Maogui - XIONG, Shaojun - JONSSON, Leif J. *Enhancing saccharification of cassava stems by starch hydrolysis prior to pretreatment. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, 2017, vol. 97, no., pp. 21-31., Registrované v: WOS*
- ADDA34 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. (0.758 - IF2008). (2009 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] MENDOZA, Fernanda - LLUCH, Jose M. - MASGRAU, Laura. Computational insights into active site shaping for substrate specificity and reaction regioselectivity in the EXTL2 retaining glycosyltransferase. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2017, vol. 15, no. 43, pp. 9095-9107., Registrované v: WOS

2. [1.1] TIAN, Ge - LIU, Yongjun. Mechanistic insights into the catalytic reaction of ferulic acid decarboxylase from *Aspergillus niger*: a QM/MM study. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2017, vol. 19, no. 11, pp. 7733-7742., Registrované v: WOS

ADDA35 KOŠÍKOVÁ, Božena - ALEX, P. - GREGOROVÁ, Adriana. Use of lignin products derived from wood pulping as environmentally desirable component of composite rubber materials. In Wood Research, 2003, vol. 48, p. 62-67. ISSN 1336-4561.

Citácie:

1. [1.2] MOKHOTHU, Thabang H. - JOHN, Maya J. Bio-based fillers for environmentally friendly composites. In Handbook of Composites from Renewable Materials, 2017-01-01, 1-8, pp. 243-270., Registrované v: SCOPUS

ADDA36 KOŠTÁLOVÁ, Zuzana - HROMADKOVÁ, Zdena - 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. (0.758 - IF2008). (2009 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] NADERI, M. R. - BANNAYAN, M. - GOLDANI, M. - ALIZADEH, A. Effect of nitrogen application on growth and yield of pumpkin. In JOURNAL OF PLANT NUTRITION. ISSN 0190-4167, 2017, vol. 40, no. 6, pp. 890-907., Registrované v: WOS

2. [1.2] OBEMBE, Olawole O. - AWORUNSE, Oluwadurotimi S. - BELLO, Oluwakemi A. - ANI, Abosede O. Multiple shoots induction from indigenous nigerian pumpkin (*Cucurbita pepo* L.). In Annual Research and Review in Biology, 2017-01-01, 17, 5, pp., Registrované v: SCOPUS

ADDA37 KOVÁČ, Pavol - ALFOLDI, Juraj. Alternative synthesis of methylated sugars. XVI. Synthesis of methyl 2,3-di-O-acetyl-β-D-xylopyranoside. In Chemické zvesti, 1978, vol. 32, p. 519-523. ISSN 0366-6352.

Citácie:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

ADDA38 KOVÁČ, Pavol - ALFOLDI, Juraj. Alternative syntheses of methylated sugars. XVIII. Synthesis of methyl 2,4-di-O-acetyl-β-D-xylopyranoside. In Chemické zvesti, 1979, vol. 33, p. 785-791. ISSN 0366-6352.

Citácie:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

ADDA39 KOVÁČ, Pavol - PALOVČÍK, R.. Alternative synthesis of methylated sugars. XIV. Synthesis of methyl 3,4-di-O-acetyl-β-D-xylopyranoside. In Chemické zvesti, 1977, vol. 31, p. 98-105. ISSN 0366-6352.

Citácie:

1. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. - BOIKOVA, I. V. - NOVIKOVA, I. I. Study of the Insecticidal Activity of Aryl Substituted Derivatives of Xylose and of Xylobiose in the Search for Environmentally Friendly Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2017, vol. 87, no. 13, pp. 3151-3155., Registrované v: WOS

2. [1.1] BELAKHOV, V. V. - GARABADZHIU, A. V. The Application of Aryl Substituted Derivatives of Xylose as Environmentally Friendly Multipurpose Pesticides. In RUSSIAN JOURNAL OF GENERAL CHEMISTRY. ISSN 1070-3632, 2016, vol. 86, no. 13, pp. 3002-3007., Registrované v: WOS

3. [1.1] SOMMER, Roman - HAUCK, Dirk - VARROT, Annabelle - IMBERTY, Anne - KUNZLER, Markus - TITZ, Alexander. O-Alkylated heavy atom carbohydrate probes for protein X-ray crystallography: Studies towards the synthesis of methyl 2-O-methyl-L-selenofucopyranoside. In BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY. ISSN 1860-5397, 2016, vol. 12, no., pp. 2828-2833., Registrované v: WOS

ADDA40 LATTOVÁ, Erika - PETRUŠOVÁ, Mária - PETRUŠ, Ladislav. Preparation of aldoses by ozonolysis of sodium salts of 1-deoxy-1-nitroalditols. In Chemical Papers - Chemické zvesti, 1991, vol. 45, p.

823-827. ISSN 0366-6352.

Citácie:

1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS

ADDA41 LAZAROVÁ, Monika - LÁBAJ, Juraj - KOGAN, Grigorij - SLAMENŇOVÁ, Darina. Carboxymethyl chitin-glucan enriched diet exhibits protective effects against oxidative DNA damage induced in freshly isolated rat cells. In *Neoplasma*. - Bratislava : Ústav experimentálnej onkológie SAV, 1954-, 2006, vol. 53, no. 5, p. 434-439. (0.731 - IF2005). (2006 - Current Contents). ISSN 0028-2685.

Citácie:

1. [1.1] BAUMGARTNER, Adolf - ALI, Aftab - NORMINGTON, Charmaine - ANDERSON, Diana. The Comet Assay in Sperm-Assessing Genotoxins in Male Germ Cells. In *COMET ASSAY IN TOXICOLOGY, 2ND EDITION*. ISSN 1757-7179, 2017, vol. 30, no., pp. 390-456., Registrované v: WOS

2. [1.2] NIE, Shaoping - CUI, Steve W. - XIE, Mingyong. Bioactive Polysaccharides. In *Bioactive Polysaccharides, 2017-10-19*, pp. 1-554., Registrované v: SCOPUS

ADDA42 MARKOVIČ, Oskar - HEINRICHOVÁ, Kvetoslava - LENKEY, B. Pectolytic enzymes from banana. In *Collection of Czechoslovak Chemical Communications*, 1975, vol. 40, p. 769-774. ISSN 0010-0765.

Citácie:

1. [1.1] DAZIO DE SOUZA, Kamila Rezende - SANTOS, Meline de Oliveira - ANDRADE, Cinthia Aparecida - DA SILVA, Dayane Meireles - CAMPOS, Nadia Alves - ALVES, Jose Donizeti. Aerenchyma formation in the initial development of maize roots under waterlogging. In *THEORETICAL AND EXPERIMENTAL PLANT PHYSIOLOGY*. ISSN 2197-0025, 2017, vol. 29, no. 4, pp. 165-175., Registrované v: WOS

ADDA43 MASTIHUBA, Vladimír - ČEPEC, Pavel - VLČKOVÁ, Silvia - FARKAŠOVÁ, Erika - MASTIHUBOVÁ, Mária - BOBAL, Pavel. Enzymatic synthesis of a chiral chalcogran intermediate. In *Chemical Papers*, 2014, vol. 68, p. 745-750. (1.193 - IF2013). (2014 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] TUPEC, Michal - BUCEK, Ales - VALTEROVA, Irena - PICOVA, Iva. Biotechnological potential of insect fatty acid-modifying enzymes. In *ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION C-A JOURNAL OF BIOSCIENCES*. ISSN 0939-5075, 2017, vol. 72, no. 9-10, pp. 387-403., Registrované v: WOS

2. [1.1] YAN, Hong De - LI, Qin - WANG, Zhao. Efficient kinetic resolution of (+/-)-menthol by a lipase from *Thermomyces lanuginosus*. In *BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY*. ISSN 0885-4513, 2017, vol. 64, no. 1, pp. 87-91., Registrované v: WOS

ADDA44 MAZÍKOVÁ, Viera - SROKOVA, I. - EBRINGEROVÁ, Anna. Solvent-free synthesis and properties of carboxymethyl starch fatty acid ester derivatives. Anna Ebringerová. In *Chemical papers*, 2009, vol. 63, no. 1, p. 71-76. (0.758 - IF2008). (2009 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] NAZ, Muhammad Yasin - SULAIMAN, Shaharin Anwar. Attributes of natural and synthetic materials pertaining to slow-release urea coating industry. In *REVIEWS IN CHEMICAL ENGINEERING*. ISSN 0167-8299, 2017, vol. 33, no. 3, pp. 293-308., Registrované v: WOS

2. [1.1] WEN, Na - GAO, Chunmei - LU, Shaoyu - XU, Xiubin - BAI, Xiao - WU, Can - NING, Piao - ZHANG, Shaofei - LIU, Mingzhu. Novel amphiphilic glucose-responsive modified starch micelles for insulin delivery. In *RSC ADVANCES*. ISSN 2046-2069, 2017, vol. 7, no. 73, pp. 45978-45986., Registrované v: WOS

ADDA45 MÉSZÁROSOVÁ, Csilla - KOLAROVA, Nadežda - VADKERTIOVÁ, Renáta - STRATILOVÁ, Eva. Induction of *Cryptococcus laurentii* α -galactosidase. In *Chemical papers*, 2012, vol. 66., p. 806-813. (1.096 - IF2011). (2012 - Current Contents). ISSN 0366-6352.

Citácie:

1. [1.1] MASTIHUBA, Vladimír - MASTIHUBOVA, Maria - BELAK, Miroslav - DUDIKOVA, Jana - POTOCKA, Elena Karnisova - PETRUS, Ladislav. Preparation of alpha-galactooligoglycosides by cell walls from *Cryptococcus laurentii* using a novel alpha-galactosyl donor. In *TETRAHEDRON-ASYMMETRY*. ISSN 0957-4166, 2017, vol. 28, no. 8, pp. 1089-1094., Registrované v: WOS

ADDA46 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. (0.406 - IF2008). (2009 - Current Contents, WOS, SCOPUS). ISSN 0006-3088.

Citácie:

1. [1.1] ELENA ESTRADA-MARTINEZ, Laura - MORENO-CELIS, Ulisses - CERVANTES-JIMENEZ, Ricardo - AUGUSTO FERRIZ-MARTINEZ, Roberto - BLANCO-LABRA, Alejandro - GARCIA-GASCA, Teresa. Plant Lectins as Medical Tools against Digestive System Cancers. In *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. ISSN 1422-0067, 2017, vol. 18, no. 7, pp., Registrované v: WOS
- ADDA47 NEŠČÁKOVÁ, Zuzana - BYSTRICKÝ, Slavomír. B cells - ontogenesis and immune memory development. In *General Physiology and Biophysics*, 2011, vol. 30, p. 1-10. (1.146 - IF2010). (2011 - Current Contents). ISSN 0231-5882.
Citácie:
1. [1.1] MALPELI, Giorgio - BARBI, Stefano - ZUPO, Simonetta - TOSADORI, Gabriele - SCARDONI, Giovanni - BERTOLASO, Anna - SARTORIS, Silvia - UGEL, Stefano - VICENTINI, Caterina - FASSAN, Matteo - ADAMO, Annalisa - KRAMPERA, Mauro - SCUPOLI, Maria Teresa - CROCE, Carlo Maria - SCARPA, Aldo. Identification of microRNAs implicated in the late differentiation stages of normal B cells suggests a central role for miRNA targets ZEB1 and TP53. In *ONCOTARGET*. ISSN 1949-2553, 2017, vol. 8, no. 7, pp. 11809-11826., Registrované v: WOS
- ADDA48 PHAM-HUU, D.P. - PETRUŠOVÁ, Mária - PETRUŠ, Ladislav. Comparison of three methods of the conversion of 1-deoxy-1-nitroalditols to the corresponding aldoses. In *Chemical Papers*, 1998, vol. 52, p. 235-237. (0.150 - IF1997). (1998 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.1] THIESEN, Luciano J. Hoeltgebaum - CABRAL, Nadia - JOSELICE E SILVA, Maria - BEZERRA, Gilson - DOBOSZEWSKI, Bogdan. Larger laboratory scale synthesis of 5-methyluridine and formal synthesis of its L-enantiomer. In *ARKIVOC*. ISSN 1551-7004, 2017, vol., no., pp. 249-264., Registrované v: WOS
- ADDA49 PRISENŽŇÁKOVÁ, Ľubica - ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - FRAŇOVÁ, Soňa - JOŠKOVÁ, Marta - CAPEK, Peter. Antitussive active herbal polysaccharides isolated from Malian medicinal plants *Trichilia emetica* Vahl. (Meliaceae), and *Opilia celtidifolia* Guill. & Perr. Endl. ex Walp. (Opiliaceae). In *Acta Medica Martiniana*, 2009, vol. 9, p. 18-24.
Citácie:
1. [1.1] MAGID, Abdulmagid Alabdul - ABDELLAH, Anaëlle - PECHER, Virginie - PASQUIER, Laure - HAKAT, Dominique - VOUTQUENNE-NAZABADIOKO, Laurence. Flavonol glycosides and lignans from the leaves of *Opilia amentacea*. In *PHYTOCHEMISTRY LETTERS*. ISSN 1874-3900, 2017, vol. 21, no., pp. 84-89., Registrované v: WOS
- ADDA50 SLAMENOVÁ, Darina - ŠRAMKOVÁ, Monika - CHALUPA, Ivan - ŠMIGOVÁ, J. - KOGAN, Grigorij. Reduction of genotoxic effects of N-nitrosomorpholine in human hepatoma cells and hamster lung cells by carboxymethyl chitin-glucan. In *Neoplasma*, 2008, vol. 55, no. 4, s. 280-285. (1.208 - IF2007). (2008 - Current Contents). ISSN 0028-2685.
Citácie:
1. [1.1] IZQUIERDO-VEGA, Jeannett Alejandra - MORALES-GONZALEZ, Jose Antonio - SANCHEZ-GUTIERREZ, Manuel - BETANZOS-CABRERA, Gabriel - SOSA-DELGADO, Sara M. - SUMAYA-MARTINEZ, Maria Teresa - MORALES-GONZALEZ, Angel - PANIAGUA-PEREZ, Rogelio - MADRIGAL-BUJADAR, Eduardo - MADRIGAL-SANTILLAN, Eduardo. Evidence of Some Natural Products with Antigenotoxic Effects. Part I: Fruits and Polysaccharides. In *NUTRIENTS*. ISSN 2072-6643, 2017, vol. 9, no. 2, pp., Registrované v: WOS
- ADDA51 ŠUTOVSKÁ, Martina - CAPEK, Peter - FRAŇOVÁ, Soňa - JOSKOVA, Marta - ŠUTOVSKÝ, 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. (0.345 - IF2010). (2011 - Current Contents). ISSN 0006-9248.
Citácie:
1. [1.1] MOMBEINI, Tajmah - POURBADIE, Hamid Gholami - KAMALINEJAD, Mohammad - MAZLOUMI, Soroush - DEHPOUR, Ahmad Reza. Anxiolytic-Like and Sedative Effects of *Alcea Aucheri* (Boiss.) Alef. Flower Extract in the Laboratory Rat. In *IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 1735-0328, 2017, vol. 16, no. 4, pp. 1495-1508., Registrované v: WOS
2. [1.1] VAN DAM, Jan E. G. - VAN DEN BROEK, Lambertus A. M. - BOERIU, Carmen G. Polysaccharides in Human Health Care. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2017, vol. 12, no. 6, pp. 821-830., Registrované v: WOS
- ADDA52 ŠEFČOVIČOVÁ, Jana, Blahutová - TKÁČ, Ján. Application of nanomaterials in microbial-cell biosensor constructions. In *Chemical Papers*, 2015, vol. 69, p. 42-53. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.1] BUCKOVA, Martina - LICBINSKY, Roman - JANDOVA, Vilma - KREJCI, Jan -

- POSPICHALOVA, Jana - HUZZLIK, Jiri. Fast Ecotoxicity Detection Using Biosensors. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, 2017, vol. 228, no. 4, pp., Registrované v: WOS
2. [1.1] PANKRATOVA, Galina - GORTON, Lo. Electrochemical communication between living cells and conductive surfaces. In CURRENT OPINION IN ELECTROCHEMISTRY. ISSN 2451-9103, 2017, vol. 5, no. 1, pp. 193-202., Registrované v: WOS
3. [1.1] SELIM, Hend M. M. - KAMAL, Ahmed M. - ALI, Dina M. M. - HASSAN, Rabeay Y. A. Bioelectrochemical Systems for Measuring Microbial Cellular Functions. In ELECTROANALYSIS. ISSN 1040-0397, 2017, vol. 29, no. 6, pp. 1498-1505., Registrované v: WOS
- ADDA53 ŠEFČOVIČOVÁ, Jana, Blahutová - 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. (1.468 - IF2014). (2015 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] PACHECO, J. G. - BARROSO, M. F. - NOUWS, H. P. A. - MORAIS, S. - DELERUE-MATOS, C. Biosensors. In CURRENT DEVELOPMENTS IN BIOTECHNOLOGY AND BIOENGINEERING: BIOPROCESSES, BIOREACTORS AND CONTROLS, 2017, vol., no., pp. 627-648., Registrované v: WOS
- ADDA54 ŠIMONOVÁ, Ivana - KAROVIČOVÁ, Jolana - MASTIHUBA, Vladimír - KOHAJDOVÁ, Zlatica. HPLC determination of inulin in plant materials. In Acta Chimica Slovaca, 2010, vol. 3, p. 122-129.
- Citácie:
1. [1.1] ŠIMONOVÁ, I. - KAROVIČOVÁ, J. - MASTIHUBA, V. - KOHAJDOVÁ, Z. HPLC determination of inulin in plant materials. In Acta Chimica Slovaca. Vol. 3 Iss. 2, HPLC determination of inulin in plant materials. In Acta Chimica Slovaca. Vol. 3 (2010), Iss. 2, p. 122-129, Registrované v: WOS
- ADDA55 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. (1.096 - IF2011). (2012 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] CELIK, Zeynep Dilan - ERTEN, Huseyin - DARICI, Merve - CABAROGLU, Turgut. Molecular characterization and technological properties of wine yeasts isolated during spontaneous fermentation of Vitis vinifera L.cv. Narince grape must grown in ancient wine making area Tokat, Anatolia. In 40TH WORLD CONGRESS OF VINE AND WINE. ISSN 2117-4458, 2017, vol. 9, no., pp., Registrované v: WOS
- ADDA56 ŠUTOVSKÁ, Martina - NOSÁLOVÁ, Gabriela - FRAŇOVÁ, Soňa - Kardošová, Alžbeta. The antitussive activity of polysaccharides from Althaea officinalis L., var. Robusta, Arctium lappa L., var. Herkules, and Prunus persica L., Batsch. In Bratislava Medical Journal, 2007, vol. 108, p. 93-99. ISSN 0006-9248.
- Citácie:
1. [1.1] KUMAR, Pradeep - KUMAR, Vineet. Estimation of uronic acids using diverse approaches and monosaccharide composition of alkali soluble polysaccharide from Vitex negundo Linn. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2017, vol. 165, no., pp. 205-212., Registrované v: WOS
- ADDA57 TAMÁS, Ladislav - HUTTOVÁ, Jana - MISTRÍK, Igor - KOGAN, Grigorij. Effect of carboxymethyl chitin-glucan on the Activity of some hydrolytic enzymes in maize plants. In Chemical papers. - Heidelberg : Springer-Verlag, 2017-, 2002, vol. 56, no. 5, p. 326-329. ISSN 0366-6352.
- Citácie:
1. [1.1] SALIMI, A. - AHMADI, R. - KHEZERLOO, J.K. Assessment of biochemical parameters after exposure to ultrasound waves; an in vivo study. In BIOMEDICAL RESEARCH-INDIA. ISSN 0970-938X, 2017, vol. 28, no. 13, p. 6054-6058., Registrované v: WOS
2. [1.1] TEWARI, Lakshmi - PANDEY, Raj Kumar - SHARMA, Raj Shekher - KUMAR, Naveen - TEWARI, Salil K. Phytostimulating Mechanisms and Bioactive Molecules of Trichoderma Species: Current Status and Future Prospects. In MICROORGANISMS FOR GREEN REVOLUTION, VOL 1: MICROBES FOR SUSTAINABLE CROP PRODUCTION. ISSN 2512-1901, 2017, vol. 6, no., pp. 189-214., Registrované v: WOS
3. [1.1] ZHOU, Zhou - WANG, Hongmei - ZHENG, Binghui - HAN, Zhang - CHEN, Yanqing - MA, Yan. A Rat Experimental Study of the Relationship Between Fluoride Exposure and Sensitive Biomarkers. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2017, vol. 180, no. 1, pp. 100-109., Registrované v: WOS
- ADDA58 TIBENSKÝ, Vladimír. Selective cation exchange on the cross-linked pectin. In Chemické zvesti, 1968, vol. 22, p. 401-406. ISSN 0366-6352.
- Citácie:
1. [1.1] FARHANA, Nur A. R. - AMIN, I. - HASSAN, Sadeq A. S. - SHUHAIMI, M. Gel formation

- of pectin from okra (Abelmoschus esculentus L. Moench) leaves, pulp and seeds. In INTERNATIONAL FOOD RESEARCH JOURNAL. ISSN 1985-4668, 2017, vol. 24, no. 5, pp. 2161-2169., Registrované v: WOS*
- ADDA59 TREBATICKÁ, Mária - SVIDOVÁ, Soňa - GROLMUS, Ján - RAUKO, Peter - KOGAN, Grigorij - MIADOKOVÁ, Eva. Sulphoethyl glucan - a biological active polysaccharide. In *Biologia*, 2005, vol. 60, suppl. 17, p. 121-123. (0.207 - IF2004). (2005 - Current Contents). ISSN 0006-3088.
- Citácie:
1. [1.1] MO, Li - CHEN, Yafei - LI, Wenjian - GUO, Shuai - WANG, Xuzhao - AN, Hailong - ZHAN, Yong. Anti-tumor effects of (1→3)-beta-D-glucan from *Saccharomyces cerevisiae* in S180 tumor-bearing mice. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2017, vol. 95, no., pp. 385-392., Registrované v: WOS*
- ADDA60 VIVODOVÁ, Zuzana, Vatehová - KOLLÁROVÁ, Karin - ZELKO, Ivan - RICHTEROVÁ - KUČEROVÁ, Danica - 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. (0.557 - IF2011). (2012 - Current Contents). ISSN 0006-3088.
- Citácie:
1. [1.1] BARRETO, Rafael Ferreira - SCHIAVON JUNIOR, Aparecido Alecio - MAGGIO, Marcos Aurelio - PRADO, Renato de Mello. Silicon alleviates ammonium toxicity in cauliflower and in broccoli. In *SCIENTIA HORTICULTURAE. ISSN 0304-4238, 2017, vol. 225, no., pp. 743-750., Registrované v: WOS*
2. [1.1] BENAKOVA, Martina - AHMADI, Hassan - DUCAIOVA, Zuzana - TYLOVA, Edita - CLEMENS, Stephan - TUMA, Jiri. Effects of Cd and Zn on physiological and anatomical properties of hydroponically grown *Brassica napus* plants. In *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, 2017, vol. 24, no. 25, pp. 20705-20716., Registrované v: WOS*
3. [1.1] ELLOUMI, Nada - BELHAJ, Dalel - MSEDDE, Salma - ZOUARI, Mohamed - BEN ABDALLAH, Ferjani - WOODWARD, Steve - KALLEL, Monem. Response of *Nerium oleander* to phosphogypsum amendment and its potential use for phytoremediation. In *ECOLOGICAL ENGINEERING. ISSN 0925-8574, 2017, vol. 99, no., pp. 164-171., Registrované v: WOS*
4. [1.1] HUANG, Meiyu - ZHU, Huihui - ZHANG, Jing - TANG, Diyong - HAN, Xiaole - CHEN, Liang - DU, Dongyun - YAO, Jun - CHEN, Ke - SUN, Jie. Toxic effects of cadmium on tall fescue and different responses of the photosynthetic activities in the photosystem electron donor and acceptor sides. In *SCIENTIFIC REPORTS. ISSN 2045-2322, 2017, vol. 7, no., pp., Registrované v: WOS*
5. [1.1] ZHANG, Liping - YANG, Qianqian - WANG, Shiliang - LI, Wanting - JIANG, Shaoqing - LIU, Yan. Influence of silicon treatment on antimony uptake and translocation in rice genotypes with different radial oxygen loss. In *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, 2017, vol. 144, no., pp. 572-577., Registrované v: WOS*
6. [1.2] LIU, Cai Feng - SHI, Gang Rong - YU, Ru Gang - ZHANG, Zheng. Eco-physiological mechanisms of silicon-induced alleviation of cadmium toxicity in plants: A review. In *Shengtai Xuebao/ Acta Ecologica Sinica. ISSN 10000933, 2017-01-01, 37, 23, pp. 7799-7810., Registrované v: SCOPUS*
- ADDA61 ZEMKOVÁ, Zuzana - GARAJOVÁ, Soňa - FLODROVÁ, Dana - ŘEHULKA, Pavel - ZELKO, Ivan - VADKERTIOVÁ, Renáta - FARKAŠ, Vladimír - STRATILOVÁ, Eva. Incorporation of beta-(1,6)-linked glucooligosaccharides (pustulooligosaccharides) into plant cell wall structures. In *Chemical papers*, 2012, vol. 66, p. 814-820. (1.096 - IF2011). (2012 - Current Contents). ISSN 0366-6352.
- Citácie:
1. [1.1] HARVEY, David J. ANALYSIS OF CARBOHYDRATES AND GLYCOCONJUGATES BY MATRIX-ASSISTED LASER DESORPTION/IONIZATION MASS SPECTROMETRY: AN UPDATE FOR 2011-2012. In *MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2017, vol. 36, no. 3, pp. 255-422., Registrované v: WOS*
- ADDA62 ŽOLDÁKOVÁ, A. - SROKOVA, I. - SASINKOVÁ, Vlasta - HIRSCH, Ján - EBRINGEROVÁ, Anna. Biosurfactants based on partially esterified O-(carboxymethyl)starch. In *Chemical papers*, 2005, vol. 59, p. 62-367. ISSN 0366-6352.
- Citácie:
1. [1.1] ZHANG, Hongkui - XU, Cheng - LU, Yuting - WANG, Yuanhao - TAN, Fengzhi - LI, Yuan. The Thermal Stability and Rheological Properties of Alkylated Carboxymethyl Starch. In *JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS. ISSN 0022-2348, 2017, vol. 56, no. 8, pp. 595-607., Registrované v: WOS*

ADDB Vedecké práce v domácich karentovaných časopisoch – neimpaktovaných

- ADDB01 BÍLIK, Vojtech. Reactions of saccharides catalyzed by molybdate ions. II. Epimerization of D-

glucose and D-mannose. In *Chemické zvesti*, 1972, vol.26, s. 183-186.

Citácie:

1. [1.1] DELIDOVICH, Irina - HOFFMANN, Andreas - WILLMS, Andrea - ROSE, Marcus. Porous Tin-Organic Frameworks as Selective Epimerization Catalysts in Aqueous Solutions. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 6, pp. 3792-3798., Registrované v: WOS
2. [1.1] GIRARD, E. - DELCROIX, D. - CABIAC, A. Catalytic conversion of cellulose to C-2-C-3 glycols by dual association of a homogeneous metallic salt and a perovskite-supported platinum catalyst. In *CATALYSIS SCIENCE & TECHNOLOGY*. ISSN 2044-4753, 2016, vol. 6, no. 14, pp. 5534-5542., Registrované v: WOS
3. [1.1] MEIER, Sebastian - KARLSSON, Magnus - JENSEN, Pernille Rose. Detecting Elusive Intermediates in Carbohydrate Conversion: A Dynamic Ensemble of Acyclic Glucose-Catalyst Complexes. In *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*. ISSN 2168-0485, 2017, vol. 5, no. 6, pp. 5571-5577., Registrované v: WOS
4. [1.1] RELLAN-PINEIRO, M. - GARCIA-RATES, M. - LOPEZ, N. A mechanism for the selective epimerization of the glucose mannose pair by Mo-based compounds: towards catalyst optimization. In *GREEN CHEMISTRY*. ISSN 1463-9262, 2017, vol. 19, no. 24, pp. 5932-5939., Registrované v: WOS
5. [1.1] ZHENG, Mingyuan - PANG, Jifeng - SUN, Ruiyan - WANG, Aiqin - ZHANG, Tao. Selectivity Control for Cellulose to Diols: Dancing on Eggs. In *ACS CATALYSIS*. ISSN 2155-5435, 2017, vol. 7, no. 3, pp. 1939-1954., 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.
- Citácie:
1. [1.1] HASSAN, Ali Saleh - HOUSTON, Kelly - LAHNSTEIN, Jelle - SHIRLEY, Neil - SCHWERDT, Julian G. - GIDLEY, Michael J. - WAUGH, Robbie - LITTLE, Alan - BURTON, Rachel A. A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS
 2. [1.1] MORGAN, Natalie K. - WALLACE, Andrew - BEDFORD, Michael R. - CHOCT, Mingan. Efficiency of xylanases from families 10 and 11 in production of xylo-oligosaccharides from wheat arabinoxylans. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 167, no., pp. 290-296., Registrované v: WOS
- ADEA02 FORANO, E. - DELORT, A.-M. - MATULOVÁ, Mária. Carbohydrate metabolism in *Fibrobacter succinogenes*: What NMR tell us. In *Microbial Ecology in Health and Disease* : Official Journal of the Society of Microbial Ecology in Health and Disease, 2008, vol.20, p. 94-102. ISSN 0891-060X.
- Citácie:
1. [1.1] BERGMANN, Gaddy T. Microbial community composition along the digestive tract in forage- and grain-fed bison. In *BMC VETERINARY RESEARCH*. ISSN 1746-6148, 2017, vol. 13, no., pp., Registrované v: WOS
 2. [1.1] ZHANG, Jun - SHI, Haitao - WANG, Yajing - LI, Shengli - CAO, Zhijun - JI, Shoukun - HE, Yuan - ZHANG, Hongtao. Effect of Dietary Forage to Concentrate Ratios on Dynamic Profile Changes and Interactions of Ruminant Microbiota and Metabolites in Holstein Heifers. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., 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] LAUKOVA, Michaela - KAROVICOVA, Jolana - KOHAJDOVA, Zlatica - BABULICOVA, Maria - RUCKSCHLOSS, Lubomir - LOPATKOVA, Veronika. Potential of bran from various wheat variety for cookies production. In *ACTA CHIMICA SLOVACA*. ISSN 1337-978X, 2016, vol. 9, no. 2, pp. 95-99., Registrované v: WOS
 2. [1.1] MACKELA, Ignas - ANDRIEKUS, Tomas - VENSUTONIS, Petras Rimantas. Biorefining of buckwheat (*Fagopyrum esculentum*) hulls by using supercritical fluid, Soxhlet, pressurized liquid and enzyme-assisted extraction methods. In *JOURNAL OF FOOD ENGINEERING*. ISSN 0260-8774, 2017, vol. 213, no., pp. 38-46., Registrované v: WOS
- ADEB02 VADKERTIOVÁ, Renáta - SLÁVIKOVÁ, Elena. Killer activity of yeasts isolated from natural environments against some medically important *Candida* species. In *Polish Journal of Microbiology*,

2007, vol. 56, p. 39-43. ISSN 1733-1331 (Print).

Citácie:

1. [1.1] BOCCAZZI, Ilaria Varotto - OTTOBONI, Matteo - MARTIN, Elena - COMANDATORE, Francesco - VALLONE, Lisa - SPRANGHERS, Thomas - EECKHOUT, Mia - MEREGHETTI, Valeria - PINOTTI, Luciano - EPIS, Sara. A survey of the mycobiota associated with larvae of the black soldier fly (*Hermetia illucens*) reared for feed production. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 8, pp., Registrované v: WOS
2. [1.1] LUKSA, Juliana - RAVOITYTE, Bazile - KONOVALOVAS, Aleksandras - AITMANAITE, Lina - BUTENKO, Anzhelika - YURCHENKO, Vyacheslav - SERVA, Saulius - SERVIENE, Elena. Different Metabolic Pathways Are Involved in Response of *Saccharomyces cerevisiae* to L-A and M Viruses. In TOXINS. ISSN 2072-6651, 2017, vol. 9, no. 8, pp., Registrované v: WOS
3. [1.2] KLASSEN, Roland - SCHAFFRATH, Raffael - BUZZINI, Pietro - GANTER, Philip F. Antagonistic interactions and killer yeasts. In Yeasts in Natural Ecosystems: Ecology, 2017-01-01, pp. 229-275., Registrované v: SCOPUS
4. [1.2] NATH, A. K. - GUPTA, Anupama - NEOPANY, Bhanu - VYAS, Gitanjali - MANEESRI, Jaruwan - THAKUR, Nisha - SHARMA, Nivedita - ACHI, Ome Kalu - LAKHANPAL, Pooja - SCHILLINGER, Ulrich. Biotechnology and traditional fermented foods. In Indigenous Fermented Foods of South Asia, 2016-01-05, pp. 773-823., Registrované v: SCOPUS

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. ISSN 1210-0668.

Citácie:

1. [2.2] ULUSU, N.N. - GÖK, M. - ŞAKUL, A.A.S. - ARI, N. - STEFEK, M. - KARASU, Ç. Antioxidant SMeIEC2 modulates pentose phosphate pathway and glutathione-dependent enzyme activities in tissues of aged diabetic rats. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2017, vol. 10, no. 4, p. 148-154., Registrované v: SCOPUS

- ADFB02 KÁKONIOVÁ, Daniela - VAVERKOVÁ, Štefánia - LIŠKOVÁ, Desana - URGEOVÁ, E. - JURÁKOVÁ, Z. The possibility to enhance flavonoids production in *Rubia tinctorum* L. callus cultures. In Nova biotechnologica, 2009, vol. 9, p. 191-197. ISSN 1337-8783.

Citácie:

1. [1.1] ESSAIDI, Ismahen - SNOUSSI, Ahmed - KOUBAIE, Hayet Ben Haj - CASABIANCA, Herve - BOUZOUITA, Nabiha. Effect of acid hydrolysis on alizarin content, antioxidant and antimicrobial activities of *Rubia tinctorum* extracts. In PIGMENT & RESIN TECHNOLOGY. ISSN 0369-9420, 2017, vol. 46, no. 5, pp. 379-384., Registrované v: WOS

- ADFB03 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Catabolism of hyaluronan: involvement of transition metals. In Interdisciplinary toxicology, 2009, vol. 2, no. 4, p. 229-238. ISSN 1337-6853.

Citácie:

1. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. Preliminary high performance capillary electrophoresis (hpce) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA. 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

- ADFB04 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS, 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. ISSN 1337-6853.

Citácie:

1. [1.1] ADHIKARI, A. - POLLEY, N. - DARBAR, S. - PAL, S.K. Therapeutic Potential of Surface Functionalized Mn3O4 Nanoparticles Against Chronic Liver Diseases in Murine Model. In MATERIALS FOCUS. ISSN 2169-429X, 2017, vol. 6, no. 3, p. 280-289., Registrované v: WOS
2. [1.1] URBANIAK, B. - PLEWA, S. - KOKOT, Z.J. Preliminary High Performance Capillary Electrophoresis (HPCE) studies of enzymatic degradation of hyaluronic acid by hyaluronidase in the presence of polyvalent metal ions. In ACTA POLONIAE PHARMACEUTICA - DRUG RESEARCH. ISSN 0001-6837, 2017, vol. 74, no. 1, p. 41-51., Registrované v: WOS

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

- ADMA01 ARIANI, Andrea - DI BACCIO, Daniela - ROMEO, Stefania - LOMBARDI, Lara - ANDREUCCI, Andrea - LUX, Alexander - HORNER, David Stephen - SEBASTIANI, Luca. RNA sequencing of *Populus x canadensis* roots identifies key molecular mechanisms underlying physiological adaption to

excess zinc. In PLoS ONE, 2015, vol. 10, p. e0117571. (3.234 - IF2014). ISSN 1932-6203.

Citácie:

1. [1.1] PARK, Seong-Bum - KIM, Jong Youn - HAN, Jung Yeon - AHN, Chang-Ho - PARK, Eung-Jun - CHOI, Yong Eui. Exploring genes involved in benzoic acid biosynthesis in the *Populus davidiana* transcriptome and their transcriptional activity upon methyl jasmonate treatment. In JOURNAL OF CHEMICAL ECOLOGY. ISSN 0098-0331, 2017, vol. 43, no. 11-12, pp. 1097-1108., Registrované v: WOS

ADMA02

BELICKÝ, Štefan - KATRLÍK, Jaroslav - TKÁČ, Ján. Glycan and lectin biosensors. In Essays in Biochemistry, 2016, vol. 60, p. 37-47. (3.378 - IF2015). ISSN 0071-1365.

Citácie:

1. [1.1] FIGUEIROA, Evelynne de Oliveira - ALBUQUERQUE DA CUNHA, Cassia Regina - ALBUQUERQUE, Priscilla B. S. - DE PAULA, Raiana Apolinario - ARANDA-SOUZA, Mary Angela - ALVES, Matheus Silva - ZAGMIGNAN, Adrielle - CARNEIRO-DA-CUNHA, Maria G. - NASCIMENTO DA SILVA, Luis Claudio - DOS SANTOS CORREIA, Maria Tereza. Lectin-Carbohydrate Interactions: Implications for the Development of New Anticancer Agents. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2017, vol. 24, no. 34, pp. 3667-3680., Registrované v: WOS

2. [1.1] MITCHELL, Carter A. - RAMESSAR, Koreen - O';KEEFE, Barry R. Antiviral lectins: Selective inhibitors of viral entry. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2017, vol. 142, no., pp. 37-54., Registrované v: WOS

3. [1.1] MITCHELL, Carter A. - RAMESSAR, Koreen - O';KEEFE, Barry R. Antiviral lectins: Selective inhibitors of viral entry. In ANTIVIRAL RESEARCH. ISSN 0166-3542, 2017, vol. 142, no., pp. 37-54., Registrované v: WOS

ADMA03

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. (6.044 - IF2014). ISSN 1754-6834.

Citácie:

1. [1.1] BOMBLE, Yannick J. - LIN, Chien-Yuan - AMORE, Antonella - WEI, Hui - HOLWERDA, Evert K. - CIESIELSKI, Peter N. - DONOHUE, Bryon S. - DECKER, Stephen R. - LYND, Lee R. - HIMMEL, Michael E. Lignocellulose deconstruction in the biosphere. In CURRENT OPINION IN CHEMICAL BIOLOGY. ISSN 1367-5931, 2017, vol. 41, no., pp. 61-70., Registrované v: WOS

2. [1.1] CONCIA, Alda Lisa - BECCIA, Maria Rosa - ORIO, Maylis - FERRE, Francine Terra - SCARPELLINI, Marciela - BIASO, Frederic - GUIGLIARELLI, Bruno - REGLIER, Marius - SIMAAN, A. Jalila. Copper Complexes as Bioinspired Models for Lytic Polysaccharide Monooxygenases. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2017, vol. 56, no. 3, pp. 1023-1026., Registrované v: WOS

3. [1.1] DANNEELS, Barbara - TANGHE, Magali - JOOSTEN, Henk-Jan - GUNDINGER, Thomas - SPADIUT, Oliver - STALS, Ingeborg - DESMET, Tom. A quantitative indicator diagram for lytic polysaccharide monooxygenases reveals the role of aromatic surface residues in H₂LPMO9A regioselectivity. In PLOS ONE. ISSN 1932-6203, 2017, vol. 12, no. 5, pp., Registrované v: WOS

4. [1.1] FRANDSEN, Kristian E. H. - POULSEN, Jens-Christian Navarro - TOVBORG, Morten - JOHANSEN, Katja S. - LO LEGGIO, Leila. Learning from oligosaccharide soaks of crystals of an AA13 lytic polysaccharide monooxygenase: crystal packing, ligand binding and active-site disorder. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, 2017, vol. 73, no., pp. 64-76., Registrované v: WOS

5. [1.1] FROMMHAGEN, Matthias - VAN ERVEN, Gijis - SANDERS, Mark - VAN BERKEL, Willem J. H. - KABEL, Mirjam A. - GRUPPEN, Harry. RP-UHPLC-UV-ESI-MS/MS analysis of LPMO generated C4-oxidized gluco-oligosaccharides after non-reductive labeling with 2-aminobenzamide. In CARBOHYDRATE RESEARCH. ISSN 0008-6215, 2017, vol. 448, no., pp. 191-199., Registrované v: WOS

6. [1.1] GUO, Zhong-peng - DUQUESNE, Sophie - BOZONNET, Sophie - NICAUD, Jean-Marc - MARTY, Alain - O';DONOHUE, Michael Joseph. Expressing accessory proteins in cellulolytic *Yarrowia lipolytica* to improve the conversion yield of recalcitrant cellulose. In BIOTECHNOLOGY FOR BIOFUELS. ISSN 1754-6834, 2017, vol. 10, no., pp., Registrované v: WOS

7. [1.1] HANSSON, Henrik - KARKEHABADI, Saeid - MIKKELSEN, Nils - DOUGLAS, Nicholas R. - KIM, Steve - LAM, Anna - KAPER, Thijs - KELEMEN, Brad - MEIER, Katlyn K. - JONES, Stephen M. - SOLOMON, Edward I. - SANDGREN, Mats. High-resolution structure of a lytic polysaccharide monooxygenase from *Hypocrea jecorina* reveals a predicted linker as an integral part of the catalytic domain. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258,

- 2017, vol. 292, no. 46, pp. 19099-19109., Registrované v: WOS
8. [1.1] KAMESHWAR, Ayyappa Kumar Sista - QIN, Wensheng. Metadata Analysis of *Phanerochaete chrysosporium* Gene Expression Data Identified Common CAZymes Encoding Gene Expression Profiles Involved in Cellulose and Hemicellulose Degradation. In *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. ISSN 1449-2288, 2017, vol. 13, no. 1, pp. 85-99., Registrované v: WOS
9. [1.1] LENFANT, Nicolas - HAINAUT, Matthieu - TERRAPON, Nicolas - DRULA, Elodie - LOMBARD, Vincent - HENRISSAT, Bernard. A bioinformatics analysis of 3400 lytic polysaccharide oxidases from family AA9. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 448, no., pp. 166-174., Registrované v: WOS
10. [1.1] LI, Yun-Jie - LU, Yang-Yang - ZHANG, Zi-Jian - MEI, Sen - TAN, Tian-Wei - FAN, Li-Hai. Co-fermentation of Cellulose and Sucrose/Xylose by Engineered Yeasts for Bioethanol Production. In *ENERGY & FUELS*. ISSN 0887-0624, 2017, vol. 31, no. 4, pp. 4061-4067., Registrované v: WOS
11. [1.1] LIU, Bing - OLSON, Ake - WU, Miao - BROBERG, Anders - SANDGREN, Mats. Biochemical studies of two lytic polysaccharide monooxygenases from the white-rot fungus *Heterobasidion irregulare* and their roles in lignocellulose degradation. In *PLOS ONE*. ISSN 1932-6203, 2017, vol. 12, no. 12, pp., Registrované v: WOS
12. [1.1] MAKELA, Miia R. - BOUZID, Ourdia - ROBL, Diogo - POST, Harm - PENG, Mao - HECK, Albert - ALTELAAR, Maarten - DE VRIES, Ronald P. Cultivation of *Podospora anserina* on soybean hulls results in an efficient enzyme cocktail for plant biomass hydrolysis. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 37, no., pp. 162-171., Registrované v: WOS
13. [1.1] MONCLARO, Antonielle Vieira - FERREIRA FILHO, Edivaldo Ximenes. Fungal lytic polysaccharide monooxygenases from family AA9: Recent developments and application in lignocellulose breakdown. In *INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*. ISSN 0141-8130, 2017, vol. 102, no., pp. 771-778., Registrované v: WOS
14. [1.1] PIERCE, Brian C. - AGGER, Jane Wittrup - WICHMANN, Jesper - MEYER, Anne S. Oxidative cleavage and hydrolytic boosting of cellulose in soybean spent flakes by *Trichoderma reesei* Cel61A lytic polysaccharide monooxygenase. In *ENZYME AND MICROBIAL TECHNOLOGY*. ISSN 0141-0229, 2017, vol. 98, no., pp. 58-66., Registrované v: WOS
15. [1.1] PIERCE, Brian C. - AGGER, Jane Wittrup - ZHANG, Zhenghong - WICHMANN, Jesper - MEYER, Anne S. A comparative study on the activity of fungal lytic polysaccharide monooxygenases for the depolymerization of cellulose in soybean spent flakes. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 449, no., pp. 85-94., Registrované v: WOS
16. [1.1] RODRIGUES, Kelly B. - MACEDO, Jessica K. A. - TEIXEIRA, Tallyta - BARROS, Jessica S. - ARAUJO, Ana C. B. - SANTOS, Fernanda P. - QUIRINO, Betania F. - BRASIL, Bruno S. A. F. - SALUM, Thais F. C. - ABDELNUR, Patricia V. - FAVARO, Leia C. L. Recombinant expression of *Thermobifida fusca* E7 LPMO in *Pichia pastoris* and *Escherichia coli* and their functional characterization. In *CARBOHYDRATE RESEARCH*. ISSN 0008-6215, 2017, vol. 448, no., pp. 175-181., Registrované v: WOS
17. [1.1] SIMMONS, T. J. - FRANDSEN, K. E. H. - CIANO, L. - TRYFONA, T. - LENFANT, N. - POULSEN, J. C. - WILSON, L. F. L. - TANDRUP, T. - TOVBORG, M. - SCHNORR, K. - JOHANSEN, K. S. - HENRISSAT, B. - WALTON, P. H. - LO LEGGIO, L. - DUPREE, P. Structural and electronic determinants of lytic polysaccharide monooxygenase reactivity on polysaccharide substrates. In *NATURE COMMUNICATIONS*. ISSN 2041-1723, 2017, vol. 8, no., pp., Registrované v: WOS
18. [1.1] VAAJE-KOLSTAD, Gustav - FORSBERG, Zarah - LOOSE, Jennifer S. M. - BISSARO, Bastien - ELJSINK, Vincent G. H. Structural diversity of lytic polysaccharide monooxygenases. In *CURRENT OPINION IN STRUCTURAL BIOLOGY*. ISSN 0959-440X, 2017, vol. 44, no., pp. 67-76., Registrované v: WOS
19. [1.1] WESTERENG, Bjorge - ARNTZEN, Magnus O. - AGGER, Jane Wittrup - VAAJE-KOLSTAD, Gustav - ELJSINK, Vincent G. H. Analyzing Activities of Lytic Polysaccharide Monooxygenases by Liquid Chromatography and Mass Spectrometry. In *PROTEIN-CARBOHYDRATE INTERACTIONS: METHODS AND PROTOCOLS*. ISSN 1064-3745, 2017, vol. 1588, no., pp. 71-92., Registrované v: WOS

ADMA04

BERTÓKOVÁ, Anikó, Illéssová - VIKARTOVSKÁ, Alica, Welwardová - BUČKO, Marek - GEMEINER, Peter - TKÁČ, Ján - CHORVÁT, Dušan - ŠTEFUCA, Vladimír - NEDĚLA, 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. (0.691 - IF2014). ISSN 1024-2422.

Citácie:

1. [1.1] FAN, Haiyang - CHEN, Lifeng - SUN, Huihui - WANG, Hualei - LIU, Qinghai - REN,

- Yuhong - WEI, Dongzhi. Development of nitrilase-mediated process for phenylacetic acid production from phenylacetone nitrile. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 10, pp. 1985-1992., Registrované v: WOS
2. [1.1] MIHAL, Mario - CERVENANSKY, Ivan - MARKOS, Jozef - REBROS, Martin. Bioproduction of phenylacetic acid in airlift reactor by immobilized *Gluconobacter oxydans*. In *CHEMICAL PAPERS*. ISSN 0366-6352, 2017, vol. 71, no. 1, pp. 103-118., Registrované v: WOS
- ADMA05 DAMBORSKÝ, Pavel - ŠVITEL, Juraj - KATRLÍK, Jaroslav. Optical biosensors. In *Essays in Biochemistry*, 2016, vol. 60, p. 91-100. (3.378 - IF2015). ISSN 0071-1365.
- Citácie:
1. [1.1] AUGEL, L. - BERKMANN, F. - LATTA, D. - FISCHER, I. A. - BECHLER, S. - ELOGAIL, Y. - KOSTECKI, K. - POTJE-KAMLOTH, K. - SCHULZE, J. Optofluidic sensor system with Ge PIN photodetector for CMOS-compatible sensing. In *MICROFLUIDICS AND NANOFUIDICS*. ISSN 1613-4982, 2017, vol. 21, no. 11, pp., Registrované v: WOS
2. [1.1] DAMBORSKA, Dominika - BERTOK, Tomas - DOSEKOVA, Erika - HOLAZOVA, Alena - LORENCOVA, Lenka - KASAK, Peter - TKAC, Jan. Nanomaterial-based biosensors for detection of prostate specific antigen. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 9, pp. 3049-3067., Registrované v: WOS
3. [1.1] Fernández-Niño, Miguel Islam, Zia-ul. The potential of synthetic biology for improving environmental quality and human health in developing countries. In: *Revista de la Universidad Industrial de Santander. Salud* Volume: 49 Issue: 1 Pages: 93-101, Registrované v: WOS
4. [1.1] HOLZINGER, Michael - LE GOFF, Alan - COSNIER, Serge. Synergetic Effects of Combined Nanomaterials for Biosensing Applications. In *SENSORS*. ISSN 1424-8220, 2017, vol. 17, no. 5, pp., Registrované v: WOS
5. [1.1] ZHOU, Xiahan - HUANG, Chih-Cheng - HALL, Drew A. Magnetoresistive Biosensors for Quantitative Proteomics. In *BIOSENSING AND NANOMEDICINE X*. ISSN 0277-786X, 2017, vol. 10352, no., pp., Registrované v: WOS
- ADMA06 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. (3.378 - IF2015). ISSN 0071-1365.
- Citácie:
1. [1.1] CHEN, Yuhan - LI, Youlun - YANG, Yang - WU, Fangni - CAO, Jun - BAI, Lijuan. A polyaniline-reduced graphene oxide nanocomposite as a redox nanoprobe in a voltammetric DNA biosensor for *Mycobacterium tuberculosis*. In *MICROCHIMICA ACTA*. ISSN 0026-3672, 2017, vol. 184, no. 6, pp. 1801-1808., Registrované v: WOS
2. [1.1] TONELLO, Sarah - ABATE, Giulia - BORGHETTI, Michela - MARZIANO, Mariagrazia - SERPELLONI, Mauro - UBERTI, Daniela L. - LOPOMO, Nicola Francesco - MEMO, Maurizio - SARDINI, Emilio. Wireless Point-of-Care Platform With Screen-Printed Sensors for Biomarkers Detection. In *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*. ISSN 0018-9456, 2017, vol. 66, no. 9, pp. 2448-2455., Registrované v: WOS
3. [1.2] CHAMAS, Alexandre - PHAM, Ha Thi Minh - BARONIAN, Kim - KUNZE, Gotthard. Biosensors based on yeast/fungal cells. In *Biotechnology of Yeasts and Filamentous Fungi*, 2017-06-12, pp. 351-371., Registrované v: SCOPUS
4. [1.2] DA SILVA, Jussara Vieira - MADURRO, Ana Graci Brito - MADURRO, João Marcos. Modified electrode with reduced graphene oxide/poly(3-hydroxyphenylacetic acid): a new platform for oligonucleotide hybridization. In *Journal of Solid State Electrochemistry*. ISSN 14328488, 2017-07-01, 21, 7, pp. 2129-2139., Registrované v: SCOPUS
5. [1.2] SINGH, Renu - MOHAN, Chandini C. Nanobiosensing technologies for prostate cancer diagnostics/prognostics: Tiny smart medicine. In *Next Generation Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis*, 2017-12-30, pp. 233-252., Registrované v: SCOPUS
6. [1.2] ZARIPOVA, Viktoriya M. - PETROVA, Irina Yu. System of automated design of biosensors. In *Communications in Computer and Information Science*. ISSN 18650929, 2017-01-01, 754, pp. 479-489., Registrované v: SCOPUS
- ADMA07 KARELIN, Alexander A. - TSVETKOV, Yuri E. - PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - NIFANTIEV, Nikolay E. Blockwise synthesis of pentasaccharide structurally related to the mannan fragment from *Candida albicans* cell wall corresponding to the antigenic factor 6. In *Russian Chemical Bulletin*, 2015, vol. 64, p. 2942-2948. (0.481 - IF2014). (2015 - Current Contents). ISSN 1066-5285.
- Citácie:
1. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS
- ADMA08 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. (2.154 - IF2015). (2016 - Current Contents). ISSN 0255-2701.

Citácie:

1. [1.1] TSIKA, Thalia - SINANOGLIOU, Vassilia J. - ZOUMPOULAKIS, Panagiotis. Extracting Bioactive Compounds From Natural Sources Using Green High-Energy Approaches: Trends and Opportunities in Lab- and Large-Scale Applications. In *INGREDIENTS EXTRACTION BY PHYSICOCHEMICAL METHODS IN FOOD*, 2017, vol. 4, no., pp. 307-365., Registrované v: WOS

2. [1.1] ZAREI, M. - ZENOUEZ, Ahmadi A. - SAARI, N. - GHANBARI, R. - NIKKHAH, M. - VAZIRI, M. Effect of microwave-assisted extraction on the yield and quality of apple pomace and lemon peel pectins. In *INTERNATIONAL FOOD RESEARCH JOURNAL*. ISSN 1985-4668, 2017, vol. 24, no. 6, pp. 2402-2407., Registrované v: WOS

3. [1.1] ZHAO, Jing - ZHANG, Fuming - LIU, Xinyue - ANGE, Kalib St. - ZHANG, Anqiang - LI, Quanhong - LINHARDT, Robert J. Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2017, vol. 163, no., pp. 330-336., Registrované v: WOS

ADMA09

MAJTÁN, Juraj - KLAUDINY, Jaroslav - BOHOVÁ, Jana - KOHÚTOVÁ, Lenka - DZÚROVÁ, Mária - ŠEDIVÁ, Mária - BARTOŠOVÁ, Mária - MAJTÁN, Viktor. Methylglyoxal-induced modifications of significant honeybee proteinous components in manuka honey: Possible therapeutic implications. In *Fitoterapia*, 2012, vol. 83, p. 671-677. (1.848 - IF2011). ISSN 0367-326X.

Citácie:

1. [1.1] CORNARA, Laura - BIAGI, Marco - XIAO, Jianbo - BURLANDO, Bruno. Therapeutic Properties of Bioactive Compounds from Different Honeybee Products. In *FRONTIERS IN PHARMACOLOGY*. ISSN 1663-9812, 2017, vol. 8, no., pp., Registrované v: WOS

2. [1.1] LI, Dan - WANG, Meng - CHENG, Ni - XUE, Xiaofeng - WU, Liming - CAO, Wei. A modified FOX-1 method for Micro-determination of hydrogen peroxide in honey samples. In *FOOD CHEMISTRY*. ISSN 0308-8146, 2017, vol. 237, no., pp. 225-231., Registrované v: WOS

3. [1.1] OLIVEIRA, Ana - RIBEIRO, Henrique G. - SILVA, Ana C. - SILVA, Maria D. - SOUSA, Jessica C. - RODRIGUES, Celia F. - MELO, Luis D. R. - HENRIQUES, Ana F. - SILLANKORVA, Sanna. Synergistic Antimicrobial Interaction between Honey and Phage against *Escherichia coli* Biofilms. In *FRONTIERS IN MICROBIOLOGY*. ISSN 1664-302X, 2017, vol. 8, no., pp., Registrované v: WOS

4. [1.1] SAIKALY, Sami K. - KHACHEMOUNE, Amor. Honey and Wound Healing: An Update. In *AMERICAN JOURNAL OF CLINICAL DERMATOLOGY*. ISSN 1175-0561, 2017, vol. 18, no. 2, pp. 237-251., Registrované v: WOS

ADMA10

PAULOVÍČOVÁ, Ema - PAULOVÍČOVÁ, Lucia - HRUBÍŠKO, Martin - KRYLOV, Vadim B. - ARGUNOV, Dmitry A. - NIFANTIEV, Nikolay E. Immunobiological activity of synthetically prepared immunodominant galactomannosides structurally mimicking *Aspergillus* galactomannan. In *Frontiers in Immunology*, 2017, vol. 8, article 1273. (6.429 - IF2016). ISSN 1664-3224.

Citácie:

1. [1.1] VERESHCHAGIN, A. N. Classical and interdisciplinary approaches to the design of organic and hybrid molecular systems. In *RUSSIAN CHEMICAL BULLETIN*. ISSN 1066-5285, 2017, vol. 66, no. 10, pp. 1765-1796., Registrované v: WOS

ADMA11

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.

Citácie:

1. [1.1] REEDY, Jennifer L. - NEGORO, Paige E. - FELIU, Marianela - LORD, Allison K. - KHAN, Nida S. - LUKASON, Dan P. - WIEDERHOLD, Nathan P. - TAM, Jenny M. - MANSOUR, Michael K. - PATTERSON, Thomas F. - VYAS, Jatin M. The Carbohydrate Lectin Receptor Dectin-1 Mediates the Immune Response to *Exserohilum rostratum*. In *INFECTION AND IMMUNITY*. ISSN 0019-9567, 2017, vol. 85, no. 3, pp., Registrované v: WOS

ADMA12

PEREZ, Serge - TVAROŠKA, Igor. Carbohydrate-protein interactions: molecular modeling insights. In *Advances in Carbohydrate Chemistry and Biochemistry*, 2014, vol. 71, p. 9-136. (3.917 - IF2013). ISSN 0065-2318.

Citácie:

1. [1.1] GU, Ruo-Xu - INGOLFSSON, Helgi I. - DE VRIES, Alex H. - MARRINK, Siewert J. - TIELEMAN, D. Peter. Ganglioside-Lipid and Ganglioside-Protein Interactions Revealed by Coarse-Grained and Atomistic Molecular Dynamics Simulations. In *JOURNAL OF PHYSICAL CHEMISTRY B*. ISSN 1520-6106, 2017, vol. 121, no. 15, pp. 3262-3275., Registrované v: WOS

2. [1.1] LABONTE, Jason W. - ADOLF-BRYFOGLE, Jared - SCHIEF, William R. - GRAY, Jeffrey J. Residue-Centric Modeling and Design of Saccharide and Glycoconjugate Structures. In

JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2017, vol. 38, no. 5, pp. 276-287., Registrované v: WOS

3. [1.1] SPIWOK, Wojciech. *CH/pi Interactions in Carbohydrate Recognition. In MOLECULES. ISSN 1420-3049, 2017, vol. 22, no. 7, pp., Registrované v: WOS*

4. [1.2] DINGJIAN, Tamir - YURIEV, Elizabeth - RAMSLAND, Paul A. *Computational approaches for studying carbohydrate-lectin interactions in infection. In Glycobiology and Human Diseases, 2016-02-22, pp. 129-147., Registrované v: SCOPUS*

ADMA13

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. (1.549 - IF2012). ISSN 1590-4261.*

Citácie:

1. [1.1] FERNANDES, Bruna Soares - FERNANDES VIEIRA, Joao Paulo - CONTESINI, Fabiano Jares - MANTELATTO, Paulo Eduardo - ZAIAT, Marcelo - DA CRUZ PRADELLA, Jose Geraldo. *High value added lipids produced by microorganisms: a potential use of sugarcane vinasse. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, 2017, vol. 37, no. 8, pp. 1048-1061., Registrované v: WOS*

2. [1.1] GIENKA, Iwona - GADASZEWSKA, Marta - BLAZEJAK, Stanislaw - KIELISZEK, Marek - BZDUCHA-WROBEL, Anna - STASIAK-ROZANSKA, Lidia - KOT, Anna Maria. *Evaluation of lipid biosynthesis ability by Rhodotorula and Sporobolomyces strains in medium with glycerol. In EUROPEAN FOOD RESEARCH AND TECHNOLOGY. ISSN 1438-2377, 2017, vol. 243, no. 2, pp. 275-286., Registrované v: WOS*

3. [1.1] KOT, Anna M. - BLAZEJAK, Stanislaw - KURCZ, Agnieszka - BRYNS, Joanna - GIENKA, Iwona - BZDUCHA-WROBEL, Anna - MALISZEWSKA, Magdalena - RECZEK, Lidia. *Effect of initial pH of medium with potato wastewater and glycerol on protein, lipid and carotenoid biosynthesis by Rhodotorula glutinis. In ELECTRONIC JOURNAL OF BIOTECHNOLOGY. ISSN 0717-3458, 2017, vol. 27, no., pp. 25-31., Registrované v: WOS*

ADMA14

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. (3.306 - IF2012). ISSN 1475-2859.*

Citácie:

1. [1.1] KRAUSS, Ulrich - JAEGER, Vera D. - DIENER, Martin - POHL, Martina - JAEGER, Karl-Erich. *Catalytically-active inclusion bodies Carrier-free protein immobilizes for application in biotechnology and biomedicine. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, 2017, vol. 258, no., pp. 136-147., Registrované v: WOS*

2. [1.1] RINAS, Ursula - GARCIA-FRUITOS, Elena - CORCHERO, Jose Luis - VAZQUEZ, Esther - SERAS-FRANZOSO, Joaquin - VILLAVERDE, Antonio. *Bacterial Inclusion Bodies: Discovering Their Better Half. In TRENDS IN BIOCHEMICAL SCIENCES. ISSN 0968-0004, 2017, vol. 42, no. 9, pp. 726-737., Registrované v: WOS*

3. [1.1] UNZUETA, Ugutz - SERAS-FRANZOSO, Joaquin - VIRTUDES CESPEDES, Maria - SACCARDO, Paolo - CORTES, Francisco - RUEDA, Fabian - GARCIA-FRUITOS, Elena - FERRER-MIRALLES, Neus - MANGUES, Ramon - VAZQUEZ, Esther - VILLAVERDE, Antonio. *Engineering tumor cell targeting in nanoscale amyloid materials. In NANOTECHNOLOGY. ISSN 0957-4484, 2017, vol. 28, no. 1, pp., Registrované v: WOS*

ADMA15

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. (4.620 - IF2014). ISSN 1553-734X.*

Citácie:

1. [1.1] BLANCO CAPURRO, Juan I. - HOPKINS, Chad W. - PIERDOMINICI SOTTILE, Gustavo - GONZALEZ LEBRERO, Mariano C. - ROITBERG, Adrian E. - MARTI, Marcelo A. *Theoretical Insights into the Reaction and Inhibition Mechanism of Metal-Independent Retaining Glycosyltransferase Responsible for Mycothiol Biosynthesis. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2017, vol. 121, no. 3, pp. 471-478., Registrované v: WOS*

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

ADMB01

BIELY, Peter - WESTERENG, Bjorge - PUCHART, Vladimír - DE MAAYER, Pieter - COWAN, Don A. *Recent progress in understanding the mode of action of acetylxylen esterases. In Journal of Applied Glycoscience, 2014, vol. 61, p. 35-44. ISSN On-line 1880-7291, Print 1344-7882.*

Citácie:

1. [1.1] KOMIYA, Dai - HORI, Akane - ISHIDA, Takuya - IGARASHI, Kiyohiko - SAMEJIMA, Masahiro - KOSEKI, Takuya - FUSHINOBU, Shinya. Crystal Structure and Substrate Specificity Modification of Acetyl Xylan Esterase from *Aspergillus luchuensis*. In *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*. ISSN 0099-2240, 2017, vol. 83, no. 20, pp., Registrované v: WOS
2. [1.1] MAI-GISONDI, Galina - MAAHEIMO, Hannu - CHONG, Sun-Li - HINZ, Sandra - TENKANEN, Maija - MASTER, Emma. Functional comparison of versatile carbohydrate esterases from families CE1, CE6 and CE16 on acetyl-4-O-methylglucuronoxylan and acetyl-galactoglucomannan. In *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*. ISSN 0304-4165, 2017, vol. 1861, no. 9, pp. 2398-2405., Registrované v: WOS
3. [1.1] RAJENDRAN, Subin R. C. - OKOLIE, Chigozie Louis - UDENIGWE, Chibuike C. - MASON, Beth. Structural features underlying prebiotic activity of conventional and potential prebiotic oligosaccharides in food and health. In *JOURNAL OF FOOD BIOCHEMISTRY*. ISSN 0145-8884, 2017, vol. 41, no. 5, pp., Registrované v: WOS
- ADMB02 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. (2015 - SCOPUS, WOS). ISSN 0277-786X.
Citácie:
1. [1.2] KHAN, Sharif - ORDONEZ, Juan S. - STIEGLITZ, Thomas. Dual-sided process with graded interfaces for adhering underfill and globtop materials to microelectrode arrays. In *International IEEE/EMBS Conference on Neural Engineering, NER*. ISSN 19483546, 2017-08-10, pp. 247-250., Registrované v: SCOPUS
- ADMB03 KOLLÁROVÁ, Karin - ZELKO, Ivan - HENSELOVÁ, Mária - CAPEK, Peter - LIŠKOVÁ, Desana. Growth and anatomical parameters of adventitious roots formed on mung bean hypocotyls are correlated with galactoglucomannan oligosaccharides structure. In *The Scientific World Journal*, 2012, vol. 2012, article ID 797815, p. 7. ISSN 1537-744X.
Citácie:
1. [1.1] LIBIK-KONIECZNY, M. - KOZIERADZKA-KISZKURNO, M. - MICHALEC-WARZECHA, Z. - MISZALSKI, Z. - BIZAN, J. - KONIECZNY, R. Influence of anti-and prooxidants on rhizogenesis from hypocotyls of *Mesembryanthemum crystallinum* L. cultured in vitro. In *ACTA PHYSIOLOGIAE PLANTARUM*. ISSN 0137-5881, 2017, vol. 39, no. 8, pp., Registrované v: WOS
2. [1.1] WANG, Zi - ZHAO, Yan - WEI, Hongxu. Chitosan oligosaccharide addition affects current-year shoot of post-transplant Buddhist pine (*Podocarpus macrophyllus*) seedlings under contrasting photoperiods. In *IFOREST-BIOGEOSCIENCES AND FORESTRY*. ISSN 1971-7458, 2017, vol. 10, no., pp. 715-721., Registrované v: WOS
- ADMB04 WONG, Dominic W.S. - CHAN, Victor J. - MCCORMACK, Amanda A. - HIRSCH, Ján - BIELY, Peter. Functional cloning and expression of the schizophyllum commune glucuronoyl esterase gene and characterization of the recombinant enzyme. In *Biotechnology Research International*, 2012, vol. 2012, article ID 951267, 7 pages.
Citácie:
1. [1.1] DILOKPIMOL, Adiphol - MAKELA, Miia R. - CERULLO, Gabriella - ZHOU, Miaomiao - VARRIALE, Simona - GIDIJALA, Loknath - BRAS, Joana L. A. - JUTTEN, Peter - PIECHOT, Alexander - VERHAERT, Raymond - FARACO, Vincenza - HILDEN, Kristiina S. - DE VRIES, Ronald P. Fungal glucuronoyl esterases: Genome mining based enzyme discovery and biochemical characterization. In *NEW BIOTECHNOLOGY*. ISSN 1871-6784, 2017, vol. 40, no., pp. 282-287., Registrované v: WOS
2. [1.1] Group Author(s): Uniprot Consortium. D8QLP9. In: UniProt Knowledgebase Source URL: <http://www.uniprot.org/uniprot/D8QLP9>, Registrované v: WOS
3. [1.1] HUTTNER, Silvia - KLAUBAU, Sylvia - DE VRIES, Ronald P. - OLSSON, Lisbeth. Characterisation of three fungal glucuronoyl esterases on glucuronic acid ester model compounds. In *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*. ISSN 0175-7598, 2017, vol. 101, no. 13, pp. 5301-5311., Registrované v: WOS
4. [1.1] LEE, Young Min - LEE, Hanbyul - HEO, Young Mok - LEE, Hwanhwi - HONG, Joo-Hyun - KIM, Jae-Jin. Transcriptional analysis of genes encoding beta-glucosidase of *Schizophyllum commune* KUC9397 under optimal conditions. In *FOLIA MICROBIOLOGICA*. ISSN 0015-5632, 2017, vol. 62, no. 3, pp. 191-196., Registrované v: WOS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADNB01 KOROLENKO, Tatyana A. - JOHNSTON, Thomas P. - DUBROVINA, Nina I. - KISAROVA, Yana A. - ZHANAEVA, Svetlana Ya. - CHERKANOVA, Marina S. - FILJUSHINA, Elena E. -

ALEXEENKO, Tatyana V. - MACHOVÁ, Eva - ZHUKOVA, Natalya A. Effect of poloxamer 407 administration on the serum lipids profile, anxiety level and protease activity in the heart and liver of mice. In *Interdisciplinary Toxicology*, 2013, vol. 6, no. 1, p. 18-25. ISSN 1337-6853.

Citácie:

1. [1.1] BRAUN, Josiane B. S. - RUCHEL, Jader B. - ADEFEGHA, Stephen A. - COELHO, Ana Paula V. - TRELLES, Kelly B. - SIGNOR, Cristiane - RUBIN, Maribel A. - OLIVEIRA, Juliana S. - DORNELLES, Guilherme L. - DE ANDRADE, Cinthia M. - CASTILHOS, Livia G. - LEAL, Daniela B. R. Neuroprotective effects of pretreatment with quercetin as assessed by acetylcholinesterase assay and behavioral testing in poloxamer-407 induced hyperlipidemic rats. In *BIOMEDICINE & PHARMACOTHERAPY*. ISSN 0753-3322, 2017, vol. 88, no., pp. 1054-1063., Registrované v: WOS
2. [1.1] MAHMOUD, Mohamed O. - ABOUD, Heba M. - HASSAN, Amira H. - ALI, Adel A. - JOHNSTON, Thomas P. Transdermal delivery of atorvastatin calcium from novel nanovesicular systems using polyethylene glycol fatty acid esters: Ameliorated effect without liver toxicity in poloxamer 407-induced hyperlipidemic rats. In *JOURNAL OF CONTROLLED RELEASE*. ISSN 0168-3659, 2017, vol. 254, no., pp. 10-22., Registrované v: WOS
3. [1.1] WONG, Sing Wan - YAO, Yifei - HONG, Ye - MA, Zhiyao - KOK, Stanton H. L. - SUN, Shan - CHO, Michael - LEE, Kenneth K. H. - MAK, Arthur F. T. Preventive Effects of Poloxamer 188 on Muscle Cell Damage Mechanics Under Oxidative Stress. In *ANNALS OF BIOMEDICAL ENGINEERING*. ISSN 0090-6964, 2017, vol. 45, no. 4, pp. 1083-1092., Registrované v: WOS
4. [1.2] ZUBERU, Jibril - SALEH, Malajiya I.A. - ALHASSAN, Abdul Wahab - ADAMU, Bello Y. - ALIYU, Munira - ILIYA, Bilkisu T. Hepatoprotective effect of camel milk on poloxamer 407 induced hyperlipidaemic wistar rats. In *Open Access Macedonian Journal of Medical Sciences*, 2017-12-15, 5, 7, pp. 852-858., Registrované v: SCOPUS

ADNB02 MUDRONČEKOVÁ, Silvia - MAZÁN, 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] DRAGANOVAL, Slavimira A. - DOYCHEV, Danail D. - PILARSKA, Daniela K. - TAKOV, Danail I. Bioassays of Entomopathogenic Fungi against Xylophagous Insects in Bulgaria: Laboratory and Field Experiments. In *ACTA ZOOLOGICA BULGARICA*. ISSN 0324-0770, 2017, vol. 69, no. 3, pp. 411-419., Registrované v: WOS

ADNB03 RAČKOVÁ, Lucia - CUPÁKOVÁ, Mária - ŤAŽKÝ, Anton - MIČOVÁ, Júlia - KOLEK, Emil - KOŠTÁLOVÁ, 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. ISSN 1337-6853.(ITMS 26240220040 : Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení).

Citácie:

1. [1.1] ABD EL-SALAM, H.S. - HASSAN, A.A. Phytochemicals boost anti-inflammatory effect against gamma radiation: Activities of ginger and coriander extracts. In *ARAB JOURNAL OF NUCLEAR SCIENCES AND APPLICATIONS*. ISSN 1110-0451, 2017, vol. 50, no. 2, p. 278-291., Registrované v: WOS
2. [1.1] SARAVANAN, N. - PATIL, M.A. - KUMAR, P.U. - SURYANARAYANA, P. - REDDY, G.B. Dietary ginger improves glucose dysregulation in a long-term high-fat high-fructose fed prediabetic rat model. In *INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY*. ISSN 0019-5189, 2017, vol. 55, no. 3, p. 142-150., Registrované v: WOS

*AFFA Abstrakty pozvaných príspevkov z medzinárodných konferencií poriadaných v SR

AFFA01 KATRLÍK, Jaroslav - GEMEINER, Peter - ŠEDIVÁ, Alena. Lectin microarray and surface plasmon resonance biochips for detection of glycosylation and glyco-biomarkers. In *Current Opinion in Biotechnology*, 2013, vol. 24, p. S25. (7.860 - IF2012). (2013 - Current Contents). ISSN 0958-1669.

Citácie:

1. [1.1] ZHU, Hanyu - LIU, Moyan - YU, Hanjie - LIU, Xiawei - ZHONG, Yaogang - SHU, Jian - FU, Xinle - CAI, Guangyan - CHEN, Xiangmei - GENG, Wenjia - YANG, Xiaoli - WU, Minghui - LI, Zheng - ZHANG, Dong. Glycopatterns of Urinary Protein as New Potential Diagnosis Indicators for Diabetic Nephropathy. In *JOURNAL OF DIABETES RESEARCH*. ISSN 2314-6745, 2017, vol., no., pp., Registrované v: WOS

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01

ŠEFČOVIČOVÁ, Jana, Blahutová - FILIP, Jaroslav - GEMEINER, Peter - TKÁČ, Ján.

Nanomaterial-based microbial for detection of ethanol in real samples. In Journal of Biotechnology, 2014, vol. 185, supplement Issue: European Biotechnology Congress 2014, s21. (2.884 - IF2013). (2014 - Current Contents). ISSN 0168-1656.

Citácie:

1. [1.1] THUNGON, Phurpa Dema - KAKOTI, Ankana - NGASHANGVA, Lightson - GOSWAMI, Pranab. *Advances in developing rapid, reliable and portable detection systems for alcohol. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, 2017, vol. 97, no., pp. 83-99., Registrované v: WOS*