

Uros Novak

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36
papers

718
citations

15
h-index

26
g-index

41
ext. papers

974
ext. citations

5.7
avg. IF

4.97
L-index

#	Paper	IF	Citations
36	Natural deep eutectic solvents (DES) for fractionation of waste lignocellulosic biomass and its cascade conversion to value-added bio-based chemicals. <i>Biomass and Bioenergy</i> , 2019 , 120, 417-425	5.3	114
35	Ionic liquid-based aqueous two-phase extraction within a microchannel system. <i>Separation and Purification Technology</i> , 2012 , 97, 172-178	8.3	75
34	Continuous photocatalytic, electrocatalytic and photo-electrocatalytic degradation of a reactive textile dye for wastewater-treatment processes: Batch, microreactor and scaled-up operation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 178-188	6.3	47
33	Crustacean shell bio-refining to chitin by natural deep eutectic solvents. <i>Green Processing and Synthesis</i> , 2019 , 9, 13-25	3.9	42
32	An intensified atmospheric plasma-based process for the isolation of the chitin biopolymer from waste crustacean biomass. <i>Green Chemistry</i> , 2018 , 20, 1199-1204	10	35
31	Chitosan-based films with incorporated supercritical CO ₂ hop extract: Structural, physicochemical, and antibacterial properties. <i>Carbohydrate Polymers</i> , 2019 , 219, 261-268	10.3	32
30	Natural plant extracts as active components in chitosan-based films: A comparative study. <i>Food Packaging and Shelf Life</i> , 2019 , 21, 100365	8.2	29
29	Evaluation of Diffusion Coefficient Determination using a Microfluidic Device. <i>Chemical and Biochemical Engineering Quarterly</i> , 2014 , 28, 215-223	1.8	28
28	Experimental studies and modeling of α-amylase aqueous two-phase extraction within a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 75-83	2.8	24
27	Continuous lipase B-catalyzed isoamyl acetate synthesis in a two-liquid phase system using corning AFRI module coupled with a membrane separator enabling biocatalyst recycle. <i>Journal of Flow Chemistry</i> , 2016 , 6, 33-38	3.3	22
26	Chitin dissolution, N-deacetylation and valorization in deep eutectic solvents. <i>Biopolymers</i> , 2020 , 111, e23351	2.2	21
25	Enzymatic conversion reactions of 5-hydroxymethylfurfural (HMF) to bio-based - 2,5-furandicarboxylic acid (FDCA) with air: mechanisms, pathways and synthesis selectivity. <i>Biotechnology for Biofuels</i> , 2020 , 13, 66	7.8	21
24	Microfluidic droplet-based liquid-liquid extraction: online model validation. <i>Lab on A Chip</i> , 2015 , 15, 2233-2242	7.9	20
23	A review of sustainable lignocellulose biorefining applying (natural) deep eutectic solvents (DESs) for separations, catalysis and enzymatic biotransformation processes. <i>Reviews in Chemical Engineering</i> , 2019 ,	5	18
22	Active chitosan-hestnut extract films used for packaging and storage of fresh pasta. <i>International Journal of Food Science and Technology</i> , 2020 , 55, 3043-3052	3.8	17
21	Chitin isolation from crustacean waste using a hybrid demineralization/DBD plasma process. <i>Carbohydrate Polymers</i> , 2020 , 246, 116648	10.3	15
20	A reaction-diffusion kinetic model for the heterogeneous N-deacetylation step in chitin material conversion to chitosan in catalytic alkaline solutions. <i>Reaction Chemistry and Engineering</i> , 2018 , 3, 920-929	4.9	15

19	Optimization of a Thermal Lens Microscope for Detection in a Microfluidic Chip. <i>International Journal of Thermophysics</i> , 2014 , 35, 2011-2022	2.1	14
18	Integrated lipase-catalyzed isoamyl acetate synthesis in a miniaturized system with enzyme and ionic liquid recycle. <i>Green Processing and Synthesis</i> , 2013 , 2,	3.9	14
17	Synthesis of bio-based methacrylic acid from biomass-derived itaconic acid over barium hexa-aluminate catalyst by selective decarboxylation reaction. <i>Molecular Catalysis</i> , 2019 , 476, 110520	3.3	13
16	Biodegradability study of active chitosan biopolymer films enriched with Quercus polyphenol extract in different soil types. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101318	7	13
15	Formulation of active food packaging by design: Linking composition of the film-forming solution to properties of the chitosan-based film by response surface methodology (RSM) modelling. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 971-978	7.9	11
14	Cascade valorization process of brown alga seaweed <i>Laminaria hyperborea</i> by isolation of polyphenols and alginate. <i>Journal of Applied Phycology</i> , 2019 , 31, 3915-3924	3.2	9
13	Chitin Deacetylation Using Deep Eutectic Solvents: -Supported Process Optimization. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3874-3886	8.3	9
12	Hydrophobic functionalization reactions of structured cellulose nanomaterials: Mechanisms, kinetics and in silico multi-scale models. <i>Carbohydrate Polymers</i> , 2021 , 259, 117742	10.3	8
11	Solubility assessment of lignin monomeric compounds and organosolv lignin in deep eutectic solvents using in situ Fourier-transform infrared spectroscopy. <i>Industrial Crops and Products</i> , 2021 , 164, 113359	5.9	8
10	Dynamic metabolic network modeling of mammalian Chinese hamster ovary (CHO) cell cultures with continuous phase kinetics transitions. <i>Biochemical Engineering Journal</i> , 2019 , 142, 124-134	4.2	8
9	Functional Nanocellulose, Alginate and Chitosan Nanocomposites Designed as Active Film Packaging Materials. <i>Polymers</i> , 2021 , 13,	4.5	6
8	Dynamic multiscale metabolic network modeling of Chinese hamster ovary cell metabolism integrating N-linked glycosylation in industrial biopharmaceutical manufacturing. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 397-411	4.9	6
7	From waste/residual marine biomass to active biopolymer-based packaging film materials for food industry applications a review. <i>Physical Sciences Reviews</i> , 2020 , 5,	1.4	5
6	Reduction in Spoilage Microbiota and Cyclopiazonic Acid Mycotoxin with Chestnut Extract Enriched Chitosan Packaging: Stability of Inoculated Gouda Cheese. <i>Foods</i> , 2020 , 9,	4.9	5
5	Single-Step Production of Bio-Based Methyl Methacrylate from Biomass-Derived Organic Acids Using Solid Catalyst Material for Cascade DecarboxylationEsterification Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2902-2911	8.3	5
4	Hydrophilic to hydrophobic: Ultrafast conversion of cellulose nanofibrils by cold plasma fluorination. <i>Applied Surface Science</i> , 2022 , 581, 152276	6.7	3
3	Incorporating RNA-Seq transcriptomics into glycosylation-integrating metabolic network modelling kinetics: Multiomic Chinese hamster ovary (CHO) cell bioreactors. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 1476-1490	4.9	2
2	Crustacean waste biorefinery as a sustainable cost-effective business model. <i>Chemical Engineering Journal</i> , 2022 , 135937	14.7	2

- 1 Permanent hydrophobic coating of chitosan/cellulose nanocrystals composite film by cold plasma processing. *Applied Surface Science*, **2022**, 153562

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