

# Uros Novak

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Hydrophilic to hydrophobic: Ultrafast conversion of cellulose nanofibrils by cold plasma fluorination. <i>Applied Surface Science</i> , <b>2022</b> , 581, 152276	6.7	3
35	Crustacean waste biorefinery as a sustainable cost-effective business model. <i>Chemical Engineering Journal</i> , <b>2022</b> , 135937	14.7	2
34	Permanent hydrophobic coating of chitosan/cellulose nanocrystals composite film by cold plasma processing. <i>Applied Surface Science</i> , <b>2022</b> , 153562	6.7	0
33	Chitin Deacetylation Using Deep Eutectic Solvents: -Supported Process Optimization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3874-3886	8.3	9
32	Hydrophobic functionalization reactions of structured cellulose nanomaterials: Mechanisms, kinetics and in silico multi-scale models. <i>Carbohydrate Polymers</i> , <b>2021</b> , 259, 117742	10.3	8
31	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> , <b>2021</b> , 164, 113359	5.9	8
30	Functional Nanocellulose, Alginate and Chitosan Nanocomposites Designed as Active Film Packaging Materials. <i>Polymers</i> , <b>2021</b> , 13,	4.5	6
29	Biodegradability study of active chitosan biopolymer films enriched with Quercus polyphenol extract in different soil types. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101318	7	13
28	Dynamic multiscale metabolic network modeling of Chinese hamster ovary cell metabolism integrating N-linked glycosylation in industrial biopharmaceutical manufacturing. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 397-411	4.9	6
27	Incorporating RNA-Seq transcriptomics into glycosylation-integrating metabolic network modelling kinetics: Multiomic Chinese hamster ovary (CHO) cell bioreactors. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 1476-1490	4.9	2
26	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> , <b>2021</b> , 9, 2902-2911	8.3	5
25	Chitin dissolution, N-deacetylation and valorization in deep eutectic solvents. <i>Biopolymers</i> , <b>2020</b> , 111, e23351	2.2	21
24	Active chitosanchestnut extract films used for packaging and storage of fresh pasta. <i>International Journal of Food Science and Technology</i> , <b>2020</b> , 55, 3043-3052	3.8	17
23	Chitin isolation from crustacean waste using a hybrid demineralization/DBD plasma process. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116648	10.3	15
22	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> , <b>2020</b> , 160, 971-978	7.9	11
21	From waste/residual marine biomass to active biopolymer-based packaging film materials for food industry applications A review. <i>Physical Sciences Reviews</i> , <b>2020</b> , 5,	1.4	5
20	Reduction in Spoilage Microbiota and Cyclopiazonic Acid Mycotoxin with Chestnut Extract Enriched Chitosan Packaging: Stability of Inoculated Gouda Cheese. <i>Foods</i> , <b>2020</b> , 9,	4.9	5

19	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> , <b>2020</b> , 13, 66	7.8	21
18	Cascade valorization process of brown alga seaweed <i>Laminaria hyperborea</i> by isolation of polyphenols and alginate. <i>Journal of Applied Phycology</i> , <b>2019</b> , 31, 3915-3924	3.2	9
17	Chitosan-based films with incorporated supercritical CO <sub>2</sub> hop extract: Structural, physicochemical, and antibacterial properties. <i>Carbohydrate Polymers</i> , <b>2019</b> , 219, 261-268	10.3	32
16	Natural plant extracts as active components in chitosan-based films: A comparative study. <i>Food Packaging and Shelf Life</i> , <b>2019</b> , 21, 100365	8.2	29
15	Synthesis of bio-based methacrylic acid from biomass-derived itaconic acid over barium hexa-aluminate catalyst by selective decarboxylation reaction. <i>Molecular Catalysis</i> , <b>2019</b> , 476, 110520	3.3	13
14	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> , <b>2019</b> ,	5	18
13	Crustacean shell bio-refining to chitin by natural deep eutectic solvents. <i>Green Processing and Synthesis</i> , <b>2019</b> , 9, 13-25	3.9	42
12	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> , <b>2019</b> , 72, 178-188	6.3	47
11	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> , <b>2019</b> , 120, 417-425	5.3	114
10	Dynamic metabolic network modeling of mammalian Chinese hamster ovary (CHO) cell cultures with continuous phase kinetics transitions. <i>Biochemical Engineering Journal</i> , <b>2019</b> , 142, 124-134	4.2	8
9	An intensified atmospheric plasma-based process for the isolation of the chitin biopolymer from waste crustacean biomass. <i>Green Chemistry</i> , <b>2018</b> , 20, 1199-1204	10	35
8	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> , <b>2018</b> , 3, 920-929	4.9	15
7	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> , <b>2016</b> , 6, 33-38	3.3	22
6	Experimental studies and modeling of lipase aqueous two-phase extraction within a microfluidic device. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 75-83	2.8	24
5	Microfluidic droplet-based liquid-liquid extraction: online model validation. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2233-2239	3.2	20
4	Optimization of a Thermal Lens Microscope for Detection in a Microfluidic Chip. <i>International Journal of Thermophysics</i> , <b>2014</b> , 35, 2011-2022	2.1	14
3	Evaluation of Diffusion Coefficient Determination using a Microfluidic Device. <i>Chemical and Biochemical Engineering Quarterly</i> , <b>2014</b> , 28, 215-223	1.8	28
2	Integrated lipase-catalyzed isoamyl acetate synthesis in a miniaturized system with enzyme and ionic liquid recycle. <i>Green Processing and Synthesis</i> , <b>2013</b> , 2,	3.9	14

- 1 Ionic liquid-based aqueous two-phase extraction within a microchannel system. *Separation and Purification Technology*, **2012**, 97, 172-178

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