

Bruno Zelic

List of Publications by Year in descending order

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68
papers

1,129
citations

394286

19
h-index

454834

30
g-index

69
all docs

69
docs citations

69
times ranked

1372
citing authors

#	ARTICLE	IF	CITATIONS
1	Process strategies to enhance pyruvate production with recombinant <i>Escherichia coli</i> : From repetitive fed-batch to in situ product recovery with fully integrated electrodialysis. <i>Biotechnology and Bioengineering</i> , 2004, 85, 638-646.	1.7	83
2	Application of microreactors in medicine and biomedicine. <i>Journal of Applied Biomedicine</i> , 2012, 10, 137-153.	0.6	75
3	Corn silage fungal-based solid-state pretreatment for enhanced biogas production in anaerobic co-digestion with cow manure. <i>Bioresource Technology</i> , 2018, 253, 220-226.	4.8	71
4	Biogas production from brewery spent grain as a mono-substrate in a two-stage process composed of solid-state anaerobic digestion and granular biomass reactors. <i>Journal of Cleaner Production</i> , 2017, 166, 519-529.	4.6	66
5	Modelling of laccase-catalyzed L-DOPA oxidation in a microreactor. <i>Chemical Engineering Journal</i> , 2009, 149, 383-388.	6.6	45
6	Optimization of Laccase Production by <i>Trametes versicolor</i> Cultivated on Industrial Waste. <i>Applied Biochemistry and Biotechnology</i> , 2012, 166, 36-46.	1.4	36
7	Purification of biodiesel produced by lipase catalysed transesterification by ultrafiltration: Selection of membranes and analysis of membrane blocking mechanisms. <i>Renewable Energy</i> , 2020, 159, 642-651.	4.3	29
8	Comparison of the L-malic acid production by isolated fumarase and fumarase in permeabilized baker's yeast cells. <i>Enzyme and Microbial Technology</i> , 2007, 41, 605-612.	1.6	28
9	Enhancement of phenolic compounds oxidation using laccase from <i>Trametes versicolor</i> in a microreactor. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 686-696.	1.4	28
10	Lipase catalysed biodiesel synthesis with integrated glycerol separation in continuously operated microchips connected in series. <i>New Biotechnology</i> , 2018, 47, 80-88.	2.4	27
11	Biodiesel purification in microextractors: Choline chloride based deep eutectic solvents vs water. <i>Separation and Purification Technology</i> , 2020, 242, 116783.	3.9	27
12	Process development and modeling of pyruvate recovery from a model solution and fermentation broth. <i>Desalination</i> , 2005, 174, 267-276.	4.0	26
13	Corn forage biological pretreatment by <i>Trametes versicolor</i> in a tray bioreactor. <i>Waste Management and Research</i> , 2016, 34, 802-809.	2.2	26
14	Anaerobic Biodegradation of Raw and Pre-treated Brewery Spent Grain Utilizing Solid State Anaerobic Digestion. <i>Acta Chimica Slovenica</i> , 2015, 62, 818-827.	0.2	26
15	Metabolomics for biotransformations: Intracellular redox cofactor analysis and enzyme kinetics offer insight into whole cell processes. <i>Biotechnology and Bioengineering</i> , 2009, 104, 251-260.	1.7	22
16	Modeling and kinetic parameter estimation of alcohol dehydrogenase-catalyzed hexanol oxidation in a microreactor. <i>Engineering in Life Sciences</i> , 2012, 12, 49-56.	2.0	22
17	Synergy of Microtechnology and Biotechnology: Microreactors as an Effective Tool for Biotransformation Processes. <i>Food Technology and Biotechnology</i> , 2018, 56, 464-479.	0.9	21
18	Bioproduction of Food Additives Hexanal and Hexanoic Acid in a Microreactor. <i>Applied Biochemistry and Biotechnology</i> , 2013, 171, 2273-2284.	1.4	20

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19	Catechol Removal from Aqueous Media Using Laccase Immobilized in Different Macro- and Microreactor Systems. <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 1575-1590.	1.4	20
20	Recovery of Phenolic Acid and Enzyme Production from Corn Silage Biologically Treated by <i>Trametes versicolor</i> . <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 948-960.	1.4	19
21	Sustainable Production of Lipase from <i>Thermomyces lanuginosus</i> : Process Optimization and Enzyme Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21144-21154.	1.8	19
22	Mathematical Modeling of Size Exclusion Chromatography. <i>Engineering in Life Sciences</i> , 2006, 6, 163-169.	2.0	18
23	Microstructured devices for biodiesel production by transesterification. <i>Biomass Conversion and Biorefinery</i> , 2018, 8, 1005-1020.	2.9	18
24	Lipase Production by Solid-State Cultivation of <i>Thermomyces Lanuginosus</i> on By-Products from Cold-Pressing Oil Production. <i>Processes</i> , 2019, 7, 465.	1.3	18
25	Integrated microsystems for lipase-catalyzed biodiesel production and glycerol removal by extraction or ultrafiltration. <i>Renewable Energy</i> , 2021, 180, 213-221.	4.3	18
26	Modelling of the whey and cow manure co-digestion process. <i>Waste Management and Research</i> , 2013, 31, 353-360.	2.2	17
27	Continuous flow-ultrasonic synergy in click reactions for the synthesis of novel 1,2,3-triazolyl appended 4,5-unsaturated ascorbic acid derivatives. <i>RSC Advances</i> , 2017, 7, 791-800.	1.7	17
28	Biogas Production from Brewery Yeast Using an Anaerobic Sequencing Batch Reactor (ASBR). <i>Food Technology and Biotechnology</i> , 2017, 55, 187-196.	0.9	17
29	Transesterification in Microreactors – Overstepping Obstacles and Shifting Towards Biodiesel Production on a Microscale. <i>Micromachines</i> , 2020, 11, 457.	1.4	17
30	ADH-catalysed hexanol oxidation with fully integrated NADH regeneration performed in microreactors connected in series. <i>RSC Advances</i> , 2014, 4, 41714-41721.	1.7	16
31	Kinetic Parameter Estimation and Mathematical Modelling of Lipase Catalysed Biodiesel Synthesis in a Microreactor. <i>Micromachines</i> , 2019, 10, 759.	1.4	16
32	Production, characterisation and immobilization of laccase for an efficient aniline-based dye decolourization. <i>Journal of Water Process Engineering</i> , 2020, 36, 101327.	2.6	16
33	Optimization of biogas production from co-digestion of whey and cow manure. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1284-1293.	1.4	15
34	Modeling of the pyruvate production with <i>Escherichia coli</i> : comparison of mechanistic and neural networks-based models. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 39-47.	1.7	13
35	Biotransformation in a microreactor: New method for production of hexanal. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 495-504.	1.4	13
36	NAD ⁺ regeneration in a microreactor using permeabilized baker's yeast cells. <i>Biochemical Engineering Journal</i> , 2013, 77, 88-96.	1.8	12

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37	Mathematical model for <i>Trametes versicolor</i> growth in submerged cultivation. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 749-758.	1.7	11
38	NADH oxidation in a microreactor catalysed by ADH immobilised on Fe_2O_3 nanoparticles. <i>Green Processing and Synthesis</i> , 2013, 2, 569-578.	1.3	11
39	Fully integrated biotransformation of fumaric acid by permeabilized baker's yeast cells with in situ separation of L-malic acid using ultrafiltration, acidification and electro dialysis. <i>Biochemical Engineering Journal</i> , 2017, 125, 221-229.	1.8	11
40	Proximate analysis of cold-press oil cakes after biological treatment with <i>Trametes versicolor</i> and <i>Humicola grisea</i> . <i>Engineering in Life Sciences</i> , 2018, 18, 924-931.	2.0	11
41	Modeling and Analysis of a New Process for Pyruvate Production. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3124-3133.	1.8	10
42	Continuous Integrated Process of Biodiesel Production and Purification – The End of the Conventional Two-Stage Batch Process?. <i>Energies</i> , 2021, 14, 403.	1.6	10
43	ADH based NAD^+ regeneration in a microreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1721-1729.	1.6	9
44	Model-to-model: Comparison of mathematical process models of lipase catalysed biodiesel production in a microreactor. <i>Computers and Chemical Engineering</i> , 2021, 145, 107200.	2.0	9
45	The power of microsystem technology in the food industry – “Going small makes it better. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 68, 102613.	2.7	9
46	NADH oxidation in a microreactor with an oscillating magnetic field. <i>Journal of Flow Chemistry</i> , 2016, 6, 27-32.	1.2	8
47	A New Spectrophotometric Assay for Measuring the Hydrolytic Activity of Lipase from <i>Thermomyces lanuginosus</i> : A Kinetic Modeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4818-4826.	3.2	8
48	Membranska filtracija kao ekološki prihvatljiva metoda pročišćavanja sirovog biodizela. <i>Kemija U Industriji</i> , 2020, 69, 175-181.	0.2	7
49	Mathematical modelling of polyphenol extraction by aqueous two-phase system in continuously operated macro- and micro-extractors. <i>Separation Science and Technology</i> , 2017, 52, 864-875.	1.3	6
50	Biodegradation of imidacloprid by composting process. <i>Chemical Papers</i> , 2017, 71, 13-20.	1.0	6
51	Mass transfer coefficient of slug flow for organic solvent-aqueous system in a microreactor. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1037-1045.	1.2	5
52	Laccase Inhibiting Activity of Some Coumarin Derivatives. <i>Letters in Organic Chemistry</i> , 2014, 11, 583-589.	0.2	5
53	Photocatalytic Oxygenation of Heterostilbenes – Batch versus Microflow Reactor. <i>Catalysts</i> , 2021, 11, 395.	1.6	4
54	Introduction to environmental engineering. <i>ChemistrySelect</i> , 2018, 3, .	0.7	3

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55	An enhanced composting process with bioaugmentation: Mathematical modelling and process optimization. <i>Waste Management and Research</i> , 2022, 40, 745-753.	2.2	3
56	Potential Use of Apple Polyphenol Oxidase for Bioremediation of Phenolic Contaminants. <i>Kemija U Industriji</i> , 2018, 67, 109-116.	0.2	2
57	Application of Clay for Petrochemical Wastewater Pretreatment. <i>Water Quality Research Journal of Canada</i> , 2009, 44, 399-406.	1.2	1
58	Implementation of Microreactor Technology in Biotechnology â€” IMTB 2015 Conference. <i>Journal of Flow Chemistry</i> , 2016, 6, 1-2.	1.2	1
59	Implementation of Microreactor Technology in Biotechnology (IMTB 2013). <i>Green Processing and Synthesis</i> , 2012, 1, .	1.3	0
60	Biotechnology on a small scale â€” Microreactors, future or just passing trend?. <i>Journal of Biotechnology</i> , 2017, 256, S11.	1.9	0
61	10. Modeling of environmental processes. , 2018, , 317-356.		0
62	1. Introduction to environmental engineering. , 2018, , 1-16.		0
63	IMTB 2017 Conference: At the intersection of microfluidics and biotechnology. <i>New Biotechnology</i> , 2018, 47, iii-iv.	2.4	0
64	Application of Tubular Meso- and Micro-reactors in Organic Synthesis and Photochemistry â€” Go With the Flow!. <i>Kemija U Industriji</i> , 2019, 68, 477-485.	0.2	0
65	Development of Aqueous Two-Phase Systems Based on Deep Eutectic Solvents for Continuous Protein Extraction in A Microextractor. , 0, , .		0
66	Purification of Biodiesel Produced by Lipase Catalysed Transesterification by Two-Phase Systems Based on Deep Eutectic Solvents in a Microextractor: Selection of Solvents and Process Optimization. , 0, , .		0
67	Photocatalytic oxygenation of heterostilbenes in microflow reactors. , 0, , .		0
68	Improvement of Biowaste Composting Efficiency using <i>Sphingobacterium spiritivorum</i> . , 0, , .		0