Polona Å½nidarÅ¡iÄ•Plazl

List of Publications by Year
in descending order

59	1,712	236925 25	289244 40
papers	citations	h-index	g-index

60	60	60	1575
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microscale technology and biocatalytic processes: opportunities and challenges for synthesis. Trends in Biotechnology, 2015, 33, 302-314.	9.3	167
2	Steroid extraction in a microchannel systemâ€"mathematical modelling and experiments. Lab on A Chip, 2007, 7, 883-889.	6.0	113
3	Ionic liquid-based aqueous two-phase extraction within a microchannel system. Separation and Purification Technology, 2012, 97, 172-178.	7.9	90
4	Dechlorination ofp-Chlorophenol in a Microreactor with Bimetallic Pd/Fe Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 5099-5106.	3.7	79
5	Modelling and experimental studies on lipase-catalyzed isoamyl acetate synthesis in a microreactor. Process Biochemistry, 2009, 44, 1115-1121.	3.7	73
6	Lipase-catalyzed synthesis of isoamyl acetate in an ionic liquid/nâ€"heptane two-phase system at the microreactor scale. Lab on A Chip, 2009, 9, 3385.	6.0	64
7	Isoamyl acetate synthesis in imidazolium-based ionic liquids using packed bed enzyme microreactor. Process Biochemistry, 2012, 47, 1344-1350.	3.7	56
8	Separation and purification of biomacromolecules based on microfluidics. Green Chemistry, 2020, 22, 4391-4410.	9.0	47
9	Modelling of laccase-catalyzed l-DOPA oxidation in a microreactor. Chemical Engineering Journal, 2009, 149, 383-388.	12.7	45
10	Development of a miniaturized packed bed reactor with Ï‰ -transaminase immobilized in LentiKats Â®. Process Biochemistry, 2017, 52, 63-72.	3.7	45
11	The Promises and the Challenges of Biotransformations in Microflow. Biotechnology Journal, 2019, 14, e1800580.	3.5	45
12	Trametes versicolor in lignocellulose-based bioeconomy: State of the art, challenges and opportunities. Bioresource Technology, 2021, 330, 124997.	9.6	45
13	Studies of a pelleted growth form of Rhizopus nigricans as a biocatalyst for progesterone 11Î±-hydroxylation. Journal of Biotechnology, 1998, 60, 207-216.	3.8	43
14	Continuous synthesis of l-malic acid using whole-cell microreactor. Process Biochemistry, 2012, 47, 1102-1107.	3.7	42
15	Theoretical and experimental study of enzyme kinetics in a microreactor system with surface-immobilized biocatalyst. Chemical Engineering Journal, 2017, 313, 374-381.	12.7	40
16	Title is missing!. World Journal of Microbiology and Biotechnology, 2000, 16, 589-593.	3.6	39
17	l-Malic acid production within a microreactor with surface immobilised fumarase. Microfluidics and Nanofluidics, 2011, 10, 627-635.	2.2	37
18	Optimization of Laccase Production by Trametes versicolor Cultivated on Industrial Waste. Applied Biochemistry and Biotechnology, 2012, 166, 36-46.	2.9	36

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19	A comparative study of ultrasound-, microwave-, and microreactor-assisted imidazolium-based ionic liquid synthesis. Green Processing and Synthesis, 2013, 2, 579-590.	3.4	36
20	Evaluation of Diffusion Coefficient Determination using a Microfluidic Device. Chemical and Biochemical Engineering Quarterly, 2014, 28, 215-223.	0.9	35
21	Integrated system of a microbioreactor and a miniaturized continuous separator for enzyme catalyzed reactions. Chemical Engineering Journal, 2012, 189-190, 376-382.	12.7	32
22	Biotransformations in microflow systems: Bridging the gap between academia and industry. Journal of Flow Chemistry, 2017, 7, 111-117.	1.9	31
23	Biocatalytic process intensification via efficient biocatalyst immobilization, miniaturization, and process integration. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100546.	5.9	31
24	Experimental studies and modeling of Î±-amylase aqueous two-phase extraction within a microfluidic device. Microfluidics and Nanofluidics, 2015, 19, 75-83.	2.2	30
25	Continuous lipase B-catalyzed isoamyl acetate synthesis in a two-liquid phase system using corningÂ® AFRâ„¢ module coupled with a membrane separator enabling biocatalyst recycle. Journal of Flow Chemistry, 2016, 6, 33-38.	1.9	29
26	The Potential of Brewerâ€™s Spent Grain in the Circular Bioeconomy: State of the Art and Future Perspectives. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	28
27	On the feasibility of in situ steroid biotransformation and product recovery in microchannels. Chemical Engineering Journal, 2010, 160, 708-714.	12.7	24
28	Development of microreactors with surface-immobilized biocatalysts for continuous transamination. New Biotechnology, 2018, 47, 18-24.	4.4	24
29	Dechlorination of polychlorinated phenols on bimetallic Pd/Fe catalyst in a magnetically stabilized fluidized bed. Chemical Engineering Journal, 2015, 274, 50-60.	12.7	23
30	Development of a continuous steroid biotransformation process and product extraction within microchannel system. Catalysis Today, 2010, 157, 315-320.	4.4	22
31	The influence of Î²-cyclodextrin on the kinetics of progesterone transformation byRhizopus nigricans. Biocatalysis and Biotransformation, 2005, 23, 299-305.	2.0	21
32	Batch and continuous transformation of progesterone byRhizopus nigricanspellets in the presence of Î²-cyclodextrin. Biocatalysis and Biotransformation, 2007, 25, 16-23.	2.0	20
33	Continuous steroid biotransformations in microchannel reactors. New Biotechnology, 2012, 29, 227-234.	4.4	20
34	Integrated lipase-catalyzed isoamyl acetate synthesis in a miniaturized system with enzyme and ionic liquid recycle. Green Processing and Synthesis, 2013, 2, 561-568.	3.4	20
35	Characterization of an enzymatic packed-bed microreactor: Experiments and modeling. Chemical Engineering Journal, 2018, 350, 541-550.	12.7	20
36	Surface cell immobilization within perfluoroalkoxy microchannels. Applied Surface Science, 2014, 320, 810-817.	6.1	17

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37	Hydrogel-Based Enzyme and Cofactor Co-Immobilization for Efficient Continuous Transamination in a Microbioreactor. Frontiers in Bioengineering and Biotechnology, 2021, 9, 752064.	4.1	17
38	Copolymeric Hydrogel-Based Immobilization of Yeast Cells for Continuous Biotransformation of Fumaric Acid in a Microreactor. Micromachines, 2019, 10, 867.	2.9	16
39	Let the Biocatalyst Flow. Acta Chimica Slovenica, 2021, 68, 1-16.	0.6	15
40	Immobilization of yeast cells within microchannels of different materials. Acta Chimica Slovenica, 2010, 57, 144-9.	0.6	15
41	A brief overview of global biotechnology. Biotechnology and Biotechnological Equipment, 2021, 35, S5-S14.	1.3	14
42	Development of a Microfluidic Platform for R-Phycoerythrin Purification Using an Aqueous Micellar Two-Phase System. ACS Sustainable Chemistry and Engineering, 2020, 8, 17097-17105.	6.7	11
43	Laboratory-scale biosynthesis ofTrichoderma mycolytic enzymes for protoplast release fromCochliobolus lunatus. Journal of Industrial Microbiology, 1992, 9, 115-119.	0.9	9
44	Evaluation of biotreatability of ionic liquids in aerobic and anaerobic conditions. Water Science and Technology, 2014, 70, 698-704.	2.5	9
45	Chitin contents in different morphological forms ofRhizopus nigricans. Folia Microbiologica, 1999, 44, 557-560.	2.3	8
46	Process Intensification and Miniaturization of Chemical and Biochemical Processes. Computer Aided Chemical Engineering, 2019, , 1801-1806.	0.5	6
47	Induction of steroidal 11Î±-hydroxylase activity in the filamentous fungus Rhizopus nigricans by tomatidine and Primula veris root extract. Physiological and Molecular Plant Pathology, 1999, 55, 251-254.	2.5	5
48	Oxidation of Coniferyl Alcohol Catalyzed by Laccases from Trametes versicolor. Acta Chimica Slovenica, 2010, 57, 110-7.	0.6	5
49	The growth form of the inducing microorganism and chitin addition affect mycolytic enzyme production byTrichoderma harzianum. Journal of Industrial Microbiology, 1995, 15, 397-400.	0.9	3
50	Ionic Liquids within Microfluidic Devices. , 2011, , .		3
51	Covalent Immobilization of Microbial Cells on Microchannel Surfaces. Methods in Molecular Biology, 2020, 2100, 417-426.	0.9	2
52	Let the Biocatalyst Flow. Acta Chimica Slovenica, 2021, 68, 1-16.	0.6	2
53	Implementation of Microreactor Technology in Biotechnology â€" IMTB 2015 Conference. Journal of Flow Chemistry, 2016, 6, 1-2.	1.9	1
54	Lattice Boltzmann Modeling-based Design of a Membrane-free Liquid-liquid Microseparator. Chemical and Biochemical Engineering Quarterly, 2020, 34, 73-78.	0.9	1

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55	Implementation of Microreactor Technology in Biotechnology (IMTB 2013). Green Processing and Synthesis, 2012, 1, .	3.4	0
56	Implementation of Microreactor Technology in Biotechnology (IMTB) 2013 Conference: a new community for new perspectives. Green Processing and Synthesis, 2013, 2, .	3.4	0
57	4th International Conference Implementation of Microreactor Technology in Biotechnology (IMTB) Tj ETQq1 1 0.784314 rgBT /Overlo	3.4	0
58	Microbioreactors. , 2017, , 414-427.		0
59	Intensification of biocatalytic processes by reactor miniaturization. Journal of Biotechnology, 2018, 280, S13.	3.8	0