# 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 | A brief overview of global biotechnology. Biotechnology and Biotechnological Equipment, 2021, 35, S5-S14. | 1.3 | 14 |
| 2 | Let the Biocatalyst Flow. Acta Chimica Slovenica, 2021, 68, 1-16. | 0.6 | 15 |
| 3 | Trametes versicolor in lignocellulose-based bioeconomy: State of the art, challenges and opportunities. Bioresource Technology, 2021, 330, 124997. | 9.6 | 45 |
| 4 | Biocatalytic process intensification via efficient biocatalyst immobilization, miniaturization, and process integration. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100546. | 5.9 | 31 |
| 5 | 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 |
| 6 | Let the Biocatalyst Flow. Acta Chimica Slovenica, 2021, 68, 1-16. | 0.6 | 2 |
| 7 | 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 |
| 8 | Separation and purification of biomacromolecules based on microfluidics. Green Chemistry, 2020, 22, 4391-4410. | 9.0 | 47 |
| 9 | Covalent Immobilization of Microbial Cells on Microchannel Surfaces. Methods in Molecular Biology, 2020, 2100, 417-426. | 0.9 | 2 |
| 10 | Lattice Boltzmann Modeling-based Design of a Membrane-free Liquid-liquid Microseparator. Chemical and Biochemical Engineering Quarterly, 2020, 34, 73-78. | 0.9 | 1 |
| 11 | Process Intensification and Miniaturization of Chemical and Biochemical Processes. Computer Aided Chemical Engineering, 2019, , 1801-1806. | 0.5 | 6 |
| 12 | The Promises and the Challenges of Biotransformations in Microflow. Biotechnology Journal, 2019, 14, e1800580. | 3.5 | 45 |
| 13 | Copolymeric Hydrogel-Based Immobilization of Yeast Cells for Continuous Biotransformation of Fumaric Acid in a Microreactor. Micromachines, 2019, 10, 867. | 2.9 | 16 |
| 14 | Characterization of an enzymatic packed-bed microreactor: Experiments and modeling. Chemical Engineering Journal, 2018, 350, 541-550. | 12.7 | 20 |
| 15 | Intensification of biocatalytic processes by reactor miniaturization. Journal of Biotechnology, 2018, 280, S13. | 3.8 | 0 |
| 16 | Development of microreactors with surface-immobilized biocatalysts for continuous transamination. New Biotechnology, 2018, 47, 18-24. | 4.4 | 24 |
| 17 | 4th International Conference Implementation of Microreactor Technology in Biotechnology (IMTB) Tj ETQq1 1 0.784314 rgBT /Overlo | 3.4 | 0 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Development of a miniaturized packed bed reactor with Ï‰ -transaminase immobilized in LentiKats Â®. Process Biochemistry, 2017, 52, 63-72. | 3.7 | 45 |
| 20 | Biotransformations in microflow systems: Bridging the gap between academia and industry. Journal of Flow Chemistry, 2017, 7, 111-117. | 1.9 | 31 |
| 21 | Microbioreactors. , 2017, , 414-427. | | 0 |
| 22 | Implementation of Microreactor Technology in Biotechnology â€" IMTB 2015 Conference. Journal of Flow Chemistry, 2016, 6, 1-2. | 1.9 | 1 |
| 23 | 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 |
| 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 | 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 |
| 26 | Microscale technology and biocatalytic processes: opportunities and challenges for synthesis. Trends in Biotechnology, 2015, 33, 302-314. | 9.3 | 167 |
| 27 | Evaluation of biotreatability of ionic liquids in aerobic and anaerobic conditions. Water Science and Technology, 2014, 70, 698-704. | 2.5 | 9 |
| 28 | Evaluation of Diffusion Coefficient Determination using a Microfluidic Device. Chemical and Biochemical Engineering Quarterly, 2014, 28, 215-223. | 0.9 | 35 |
| 29 | Surface cell immobilization within perfluoroalkoxy microchannels. Applied Surface Science, 2014, 320, 810-817. | 6.1 | 17 |
| 30 | 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 |
| 31 | 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 |
| 32 | Implementation of Microreactor Technology in Biotechnology (IMTB) 2013 Conference: a new community for new perspectives. Green Processing and Synthesis, 2013, 2, . | 3.4 | 0 |
| 33 | Implementation of Microreactor Technology in Biotechnology (IMTB 2013). Green Processing and Synthesis, 2012, 1, . | 3.4 | 0 |
| 34 | Isoamyl acetate synthesis in imidazolium-based ionic liquids using packed bed enzyme microreactor. Process Biochemistry, 2012, 47, 1344-1350. | 3.7 | 56 |
| 35 | Ionic liquid-based aqueous two-phase extraction within a microchannel system. Separation and Purification Technology, 2012, 97, 172-178. | 7.9 | 90 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Continuous steroid biotransformations in microchannel reactors. New Biotechnology, 2012, 29, 227-234. | 4.4 | 20 |
| 38 | Continuous synthesis of l-malic acid using whole-cell microreactor. Process Biochemistry, 2012, 47, 1102-1107. | 3.7 | 42 |
| 39 | Optimization of Laccase Production by Trametes versicolor Cultivated on Industrial Waste. Applied Biochemistry and Biotechnology, 2012, 166, 36-46. | 2.9 | 36 |
| 40 | Ionic Liquids within Microfluidic Devices. , 2011, , . | | 3 |
| 41 | l-Malic acid production within a microreactor with surface immobilised fumarase. Microfluidics and Nanofluidics, 2011, 10, 627-635. | 2.2 | 37 |
| 42 | Development of a continuous steroid biotransformation process and product extraction within microchannel system. Catalysis Today, 2010, 157, 315-320. | 4.4 | 22 |
| 43 | On the feasibility of in situ steroid biotransformation and product recovery in microchannels. Chemical Engineering Journal, 2010, 160, 708-714. | 12.7 | 24 |
| 44 | Oxidation of Coniferyl Alcohol Catalyzed by Laccases from Trametes versicolor. Acta Chimica Slovenica, 2010, 57, 110-7. | 0.6 | 5 |
| 45 | Immobilization of yeast cells within microchannels of different materials. Acta Chimica Slovenica, 2010, 57, 144-9. | 0.6 | 15 |
| 46 | Modelling and experimental studies on lipase-catalyzed isoamyl acetate synthesis in a microreactor. Process Biochemistry, 2009, 44, 1115-1121. | 3.7 | 73 |
| 47 | Modelling of laccase-catalyzed l-DOPA oxidation in a microreactor. Chemical Engineering Journal, 2009, 149, 383-388. | 12.7 | 45 |
| 48 | 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 |
| 49 | Batch and continuous transformation of progesterone byRhizopus nigricanspellets in the presence of Î²-cyclodextrin. Biocatalysis and Biotransformation, 2007, 25, 16-23. | 2.0 | 20 |
| 50 | Steroid extraction in a microchannel systemâ€”mathematical modelling and experiments. Lab on A Chip, 2007, 7, 883-889. | 6.0 | 113 |
| 51 | The influence of Î²-cyclodextrin on the kinetics of progesterone transformation byRhizopus nigricans. Biocatalysis and Biotransformation, 2005, 23, 299-305. | 2.0 | 21 |
| 52 | Dechlorination ofp-Chlorophenol in a Microreactor with Bimetallic Pd/Fe Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 5099-5106. | 3.7 | 79 |
| 53 | Title is missing!. World Journal of Microbiology and Biotechnology, 2000, 16, 589-593. | 3.6 | 39 |
| 54 | Chitin contents in different morphological forms ofRhizopus nigricans. Folia Microbiologica, 1999, 44, 557-560. | 2.3 | 8 |

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|---|---|---|---|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | Laboratory-scale biosynthesis ofTrichoderma mycolytic enzymes for protoplast release fromCochliobolus lunatus. Journal of Industrial Microbiology, 1992, 9, 115-119. | 0.9 | 9 |
| 59 | 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 |