# John M Woodley

List of Publications by Year
in descending order

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|---|---|---|---|
| 309 papers | 14,300 citations | 19657 61 h-index | 27406 106 g-index |
| 330 all docs | 330 docs citations | 330 times ranked | 10183 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Combining technology with liquidâ€formulated lipases for inâ€spec biodiesel production. Biotechnology and Applied Biochemistry, 2022, 69, 7-19. | 3.1 | 22 |
| 2 | Modelling study on phase equilibria behavior of ionic liquid-based aqueous biphasic systems. Chemical Engineering Science, 2022, 247, 116904. | 3.8 | 11 |
| 3 | Bio-Based Epoxy Binders from Lignin Derivatized with Epoxidized Rapeseed Fatty Acids in Bimodal Coating Systems. ACS Applied Polymer Materials, 2022, 4, 444-451. | 4.4 | 6 |
| 4 | Ensuring the Sustainability of Biocatalysis. ChemSusChem, 2022, 15, . | 6.8 | 8 |
| 5 | Mass-based biocatalyst metrics to guide protein engineering and bioprocess development. Nature Catalysis, 2022, 5, 2-4. | 34.4 | 15 |
| 6 | Integrating protein engineering into biocatalytic process scale-up. Trends in Chemistry, 2022, 4, 371-373. | 8.5 | 4 |
| 7 | Modeling and Experimental Validation of Continuous Biocatalytic Oxidation in Two Continuous Stirred Tank Reactors in Series. Organic Process Research and Development, 2022, 26, 2030-2037. | 2.7 | 4 |
| 8 | In Situ Cofactor Regeneration Using NAD(P)H Oxidase: Enzyme Stability in a Bubble Column. ChemCatChem, 2022, 14, . | 3.7 | 4 |
| 9 | New Horizons for Biocatalytic Science. Frontiers in Catalysis, 2022, 2, . | 3.9 | 2 |
| 10 | Is enzyme immobilization a mature discipline? Some critical considerations to capitalize on the benefits of immobilization. Chemical Society Reviews, 2022, 51, 6251-6290. | 38.1 | 183 |
| 11 | Biocatalysis for future sustainable manufacturing. Biochemist, 2022, 44, 6-8. | 0.5 | 3 |
| 12 | Computer-Aided Multifunctional Ionic Liquid Design for the Electrolyte in LTO Rechargeable Batteries. Journal of Physical Chemistry C, 2022, 126, 11498-11509. | 3.1 | 3 |
| 13 | Confining the motion of enzymes in nanofiltration membrane for efficient and stable removal of micropollutants. Chemical Engineering Journal, 2021, 421, 127870. | 12.7 | 11 |
| 14 | Sparged but not stirred: Rapid, ADH-NADH oxidase catalyzed deracemization of alcohols in a bubble column. Chemical Engineering Journal, 2021, 417, 127909. | 12.7 | 12 |
| 15 | Sustainable bio-succinic acid production: superstructure optimization, techno-economic, and lifecycle assessment. Energy and Environmental Science, 2021, 14, 3542-3558. | 30.8 | 65 |
| 16 | Monolithic flow reactor for enzymatic oxidations. Journal of Chemical Technology and Biotechnology, 2021, 96, 2488-2495. | 3.2 | 5 |
| 17 | Targeted modification of polyamide nanofiltration membrane for efficient separation of monosaccharides and monovalent salt. Journal of Membrane Science, 2021, 628, 119250. | 8.2 | 30 |
| 18 | Ionic liquidâ€based in situ product removal design exemplified for an acetoneâ€“butanolâ€“ethanol fermentation. Biotechnology Progress, 2021, 37, e3183. | 2.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Toward scalable biocatalytic conversion of 5-hydroxymethylfurfural by galactose oxidase using coordinated reaction and enzyme engineering. Nature Communications, 2021, 12, 4946. | 12.8 | 56 |
| 20 | High-yield production of active recombinant S. simulans lysostaphin expressed in E. coli in a laboratory bioreactor. Protein Expression and Purification, 2021, 177, 105753. | 1.3 | 1 |
| 21 | Enzyme Cascade Process Design and Modelling. , 2021, , 125-139. | | 2 |
| 22 | Controlled pore collapse to increase solute rejection of modified PES membranes. Journal of Membrane Science, 2020, 595, 117515. | 8.2 | 15 |
| 23 | New frontiers in biocatalysis for sustainable synthesis. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 22-26. | 5.9 | 81 |
| 24 | Effective removal of antibiotic resistance genes and potential links with archaeal communities during vacuum-type composting and positive-pressure composting. Journal of Environmental Sciences, 2020, 89, 277-286. | 6.1 | 20 |
| 25 | A multi-layered view of chemical and biochemical engineering. Chemical Engineering Research and Design, 2020, 155, A133-A145. | 5.6 | 58 |
| 26 | Improved Alkyl Glycoside Synthesis by transâ€Glycosylation through Tailored Microenvironments of Immobilized Î²â€Glucosidase. ChemPlusChem, 2020, 85, 137-141. | 2.8 | 9 |
| 27 | Parameters necessary to define an immobilized enzyme preparation. Process Biochemistry, 2020, 90, 66-80. | 3.7 | 306 |
| 28 | Towards the sustainable production of bulk-chemicals using biotechnology. New Biotechnology, 2020, 59, 59-64. | 4.4 | 32 |
| 29 | Editorial: â€œHow chemistry flowsâ€• Current Opinion in Green and Sustainable Chemistry, 2020, 25, 100389. | 5.9 | 0 |
| 30 | Gas Solubility in Ionic Liquids: UNIFAC-IL Model Extension. Industrial & Engineering Chemistry Research, 2020, 59, 16805-16821. | 3.7 | 30 |
| 31 | A process synthesis-intensification method for generation of novel and intensified solutions. Chemical Engineering and Processing: Process Intensification, 2020, 156, 108103. | 3.6 | 11 |
| 32 | From molasses to syrup: Engineering ultrafiltration membrane surface to improve invertase reusability. Journal of Membrane Science, 2020, 610, 118287. | 8.2 | 10 |
| 33 | An Experimental Study on Improved Production Performance by Depressurization Combined with CO<sub>2</sub>-Enriched Air Injection. Energy & Fuels, 2020, 34, 7329-7339. | 5.1 | 15 |
| 34 | Process Analysis of Shea Butter Solvent Fractionation Using a Generic Systematic Approach. Industrial & Engineering Chemistry Research, 2020, 59, 9152-9164. | 3.7 | 8 |
| 35 | On the thermodynamics of biocatalytic reactions with application of group-contribution correlation and prediction. Fluid Phase Equilibria, 2020, 518, 112623. | 2.5 | 2 |
| 36 | The Effect of Dissolved Oxygen on Kinetics during Continuous Biocatalytic Oxidations. Organic Process Research and Development, 2020, 24, 2055-2063. | 2.7 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High-level heterologous expression of active Chaetomium thermophilum FDH in Pichia pastoris. Enzyme and Microbial Technology, 2020, 137, 109552. | 3.2 | 11 |
| 38 | Advances in biological conversion technologies: new opportunities for reaction engineering. Reaction Chemistry and Engineering, 2020, 5, 632-640. | 3.7 | 15 |
| 39 | A group contribution-based prediction method for the electrical conductivity of ionic liquids. Fluid Phase Equilibria, 2020, 509, 112462. | 2.5 | 22 |
| 40 | Ionic-Liquid-Based Bioisoprene Recovery Process Design. Industrial & Engineering Chemistry Research, 2020, 59, 7355-7366. | 3.7 | 10 |
| 41 | Computer-aided molecular product-process design under property uncertainties â€“ A Monte Carlo based optimization strategy. Computers and Chemical Engineering, 2019, 122, 247-257. | 3.8 | 12 |
| 42 | Process model validation and analysis for intensification of an industrial scale process. Computer Aided Chemical Engineering, 2019, , 955-960. | 0.5 | 1 |
| 43 | Use of image analysis to understand enzyme stability in an aerated stirred reactor. Biotechnology Progress, 2019, 35, e2878. | 2.6 | 7 |
| 44 | Considerations when Measuring Biocatalyst Performance. Molecules, 2019, 24, 3573. | 3.8 | 48 |
| 45 | Computer-aided design of ionic liquids for hybrid process schemes. Computers and Chemical Engineering, 2019, 130, 106556. | 3.8 | 25 |
| 46 | Pilot scale absorption experiments with carbonic anhydrase-enhanced MDEA- Benchmarking with 30 wt% MEA. International Journal of Greenhouse Gas Control, 2019, 82, 69-85. | 4.6 | 18 |
| 47 | Uncertainty in the prediction of the thermophysical behavior of new halogenated working fluids. Fluid Phase Equilibria, 2019, 485, 220-233. | 2.5 | 7 |
| 48 | A Prospective Life Cycle Assessment (LCA) of Monomer Synthesis: Comparison of Biocatalytic and Oxidative Chemistry. ChemSusChem, 2019, 12, 1349-1360. | 6.8 | 33 |
| 49 | Design of enzymatic cascade processes for the production of low-priced chemicals. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2019, 74, 77-84. | 1.4 | 15 |
| 50 | Sustainable solutions by integrating process synthesis-intensification. Computers and Chemical Engineering, 2019, 126, 499-519. | 3.8 | 21 |
| 51 | Accelerating the implementation of biocatalysis in industry. Applied Microbiology and Biotechnology, 2019, 103, 4733-4739. | 3.6 | 112 |
| 52 | Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals. Catalysts, 2019, 9, 262. | 3.5 | 68 |
| 53 | Reaction Engineering for the Industrial Implementation of Biocatalysis. Topics in Catalysis, 2019, 62, 1202-1207. | 2.8 | 23 |
| 54 | Bubble Column Enables Higher Reaction Rate for Deracemization of (R,S)â€1â€Phenylethanol with Coupled Alcohol Dehydrogenase/NADH Oxidase System. Advanced Synthesis and Catalysis, 2019, 361, 2574-2581. | 4.3 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Integrated ionic liquid and process design involving azeotropic separation processes. Chemical Engineering Science, 2019, 203, 402-414. | 3.8 | 36 |
| 56 | The Potential of Biogas; the Solution to Energy Storage. ChemSusChem, 2019, 12, 2147-2153. | 6.8 | 52 |
| 57 | Group Contribution Based Estimation Method for Properties of Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 4277-4292. | 3.7 | 59 |
| 58 | 8. Conception, design, and development of intensified hybrid-bioprocesses. , 2019, , 211-241. | | 0 |
| 59 | Can graphene oxide improve the performance of biocatalytic membrane?. Chemical Engineering Journal, 2019, 359, 982-993. | 12.7 | 30 |
| 60 | Integrating protein engineering with process design for biocatalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170062. | 3.4 | 29 |
| 61 | Systematic Optimization-Based Integrated Chemical Productâ€“Process Design Framework. Industrial & Engineering Chemistry Research, 2018, 57, 677-688. | 3.7 | 28 |
| 62 | Surface modification of polysulfone membranes applied for a membrane reactor with immobilized alcohol dehydrogenase. Materials Today Communications, 2018, 14, 160-168. | 1.9 | 22 |
| 63 | Systematic identification method for data analysis and phase equilibria modelling for lipids systems. Journal of Chemical Thermodynamics, 2018, 121, 153-169. | 2.0 | 11 |
| 64 | Simple Preparation of Thiolâ€“Ene Particles in Glycerol and Surface Functionalization by Thiolâ€“Ene Chemistry (TEC) and Surface Chain Transfer Free Radical Polymerization (SCTâ€FRP). Macromolecular Rapid Communications, 2018, 39, 1700394. | 3.9 | 12 |
| 65 | Online Measurement of Oxygenâ€Dependent Enzyme Reaction Kinetics. ChemBioChem, 2018, 19, 106-113. | 2.6 | 10 |
| 66 | Role of Biocatalysis in Sustainable Chemistry. Chemical Reviews, 2018, 118, 801-838. | 47.7 | 1,175 |
| 67 | Experimental and computational evaluation of area selectively immobilized horseradish peroxidase in a microfluidic device. Chemical Engineering Journal, 2018, 332, 16-23. | 12.7 | 13 |
| 68 | Mussel-inspired co-deposition to enhance bisphenol A removal in a bifacial enzymatic membrane reactor. Chemical Engineering Journal, 2018, 336, 315-324. | 12.7 | 53 |
| 69 | Sustainable and Innovative Solutions through an Integrated Systematic Framework. Computer Aided Chemical Engineering, 2018, , 1165-1170. | 0.5 | 0 |
| 70 | Integrated Ionic Liquid and Process Design involving Hybrid Separation Schemes. Computer Aided Chemical Engineering, 2018, 44, 1045-1050. | 0.5 | 7 |
| 71 | Scoping the Enantioselective Desymmetrization of a Poorly Water-Soluble Diester by Recombinant Pig Liver Esterase. Organic Process Research and Development, 2018, 22, 1518-1523. | 2.7 | 10 |
| 72 | Scoping Biocatalyst Performance Using Reaction Trajectory Analysis. Organic Process Research and Development, 2018, 22, 1101-1114. | 2.7 | 15 |

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|---|---|---|---|
| 73 | Perspective on PSE in pharmaceutical process development and innovation. Computer Aided Chemical Engineering, 2018, , 597-656. | 0.5 | 11 |
| 74 | Design and Analysis of Edible Oil Processes Containing Lipids. Computer Aided Chemical Engineering, 2018, 43, 737-742. | 0.5 | 1 |
| 75 | Integrated Solvent-Membrane and Process Design Method for Hybrid Reaction-Separation Schemes. Computer Aided Chemical Engineering, 2018, 43, 851-856. | 0.5 | 3 |
| 76 | A Multi-stage and Multi-level Computer Aided Framework for Sustainable Process Intensification. Computer Aided Chemical Engineering, 2018, , 875-880. | 0.5 | 4 |
| 77 | Fermentative Alcohol Production. Green Energy and Technology, 2018, , 319-357. | 0.6 | 0 |
| 78 | Innovative process development and production concepts for small-molecule API manufacturing. Computer Aided Chemical Engineering, 2018, , 67-84. | 0.5 | 3 |
| 79 | Screening of organic solvents for bioprocesses using aqueous-organic two-phase systems. Biotechnology Advances, 2018, 36, 1801-1814. | 11.7 | 67 |
| 80 | Bioprocess intensification for the effective production of chemical products. Computers and Chemical Engineering, 2017, 105, 297-307. | 3.8 | 56 |
| 81 | A generic methodology for processing route synthesis and design based on superstructure optimization. Computers and Chemical Engineering, 2017, 106, 892-910. | 3.8 | 109 |
| 82 | Characterization of a continuous agitated cell reactor for oxygen dependent biocatalysis. Biotechnology and Bioengineering, 2017, 114, 1222-1230. | 3.3 | 40 |
| 83 | Reaction Equilibrium of the Ï‰-Transamination of (S)-Phenylethylamine: Experiments and ePC-SAFT Modeling. Organic Process Research and Development, 2017, 21, 976-986. | 2.7 | 16 |
| 84 | Shape optimization as a tool to design biocatalytic microreactors. Chemical Engineering Journal, 2017, 322, 215-223. | 12.7 | 14 |
| 85 | Model-based design and analysis of glucose isomerization process operation. Computers and Chemical Engineering, 2017, 98, 128-142. | 3.8 | 6 |
| 86 | Rate-based Modelling and Validation of a Pilot Absorber Using MDEA Enhanced with Carbonic Anhydrase (CA). Energy Procedia, 2017, 114, 707-718. | 1.8 | 6 |
| 87 | Comparison of the Kinetic Promoter Piperazine and Carbonic Anhydrase for CO2 Absorption. Energy Procedia, 2017, 114, 719-725. | 1.8 | 3 |
| 88 | Operating Considerations of Ultrafiltration in Enzyme Enhanced Carbon Capture. Energy Procedia, 2017, 114, 735-743. | 1.8 | 4 |
| 89 | Design and Simulation of Rate-based CO2 Capture Processes Using Carbonic Anhydrase (CA) Applied to Biogas. Energy Procedia, 2017, 114, 1434-1443. | 1.8 | 6 |
| 90 | Pilot Absorption Experiments with Carbonic Anhydrase Enhanced MDEA. Energy Procedia, 2017, 114, 1158-1165. | 1.8 | 6 |

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|---|---|---|---|
| 91 | Automated Determination of Oxygen-Dependent Enzyme Kinetics in a Tube-in-Tube Flow Reactor. ChemCatChem, 2017, 9, 3273-3273. | 3.7 | 5 |
| 92 | Development of a thiolâ€ene based screening platform for enzyme immobilization demonstrated using horseradish peroxidase. Biotechnology Progress, 2017, 33, 1267-1277. | 2.6 | 9 |
| 93 | Integrated working fluid-thermodynamic cycle design of organic Rankine cycle power systems for waste heat recovery. Applied Energy, 2017, 203, 442-453. | 10.1 | 46 |
| 94 | Automated Determination of Oxygenâ€Dependent Enzyme Kinetics in a Tubeâ€inâ€Tube Flow Reactor. ChemCatChem, 2017, 9, 3285-3288. | 3.7 | 41 |
| 95 | Prediction of properties of new halogenated olefins using two group contribution approaches. Fluid Phase Equilibria, 2017, 433, 79-96. | 2.5 | 31 |
| 96 | Synthesis of Sustainable Biofuel ProductionÂProcesses: A Generic Methodology for Superstructure Optimization and Data Management. , 2017, , 651-681. | | 2 |
| 97 | Influence of temperature and solvent concentration on the kinetics of the enzyme carbonic anhydrase in carbon capture technology. Chemical Engineering Journal, 2017, 309, 772-786. | 12.7 | 41 |
| 98 | Development of in situ product removal strategies in biocatalysis applying scaledâ€down unit operations. Biotechnology and Bioengineering, 2017, 114, 600-609. | 3.3 | 22 |
| 99 | Ultrasound-assisted production of biodiesel FAME from rapeseed oil in a novel two-compartment reactor. Journal of Chemical Technology and Biotechnology, 2017, 92, 657-665. | 3.2 | 11 |
| 100 | Effect of Water Clustering on the Activity of Candida antarctica Lipase B in Organic Medium. Catalysts, 2017, 7, 227. | 3.5 | 20 |
| 101 | A Reaction Database for Small Molecule Pharmaceutical Processes Integrated with Process Information. Processes, 2017, 5, 58. | 2.8 | 11 |
| 102 | Location-dependent optimal biorefinery synthesis. Computer Aided Chemical Engineering, 2017, , 907-912. | 0.5 | 0 |
| 103 | Integrated computer-aided framework for chemical product and process application design and optimization for waste heat recovery. Computer Aided Chemical Engineering, 2017, , 1777-1782. | 0.5 | 2 |
| 104 | Application of a computer-aided framework for the design of CO 2 capture and utilization processes. Computer Aided Chemical Engineering, 2017, 40, 2653-2658. | 0.5 | 6 |
| 105 | Computer Aided Synthesis of Innovative Processes: Renewable Adipic Acid Production. Computer Aided Chemical Engineering, 2017, 40, 709-714. | 0.5 | 0 |
| 106 | Separation and recovery of intracellular beta-carotene using a process synthesis framework. Computer Aided Chemical Engineering, 2017, 40, 2851-2856. | 0.5 | 1 |
| 107 | A Systematic Identification Method for Thermodynamic Property Modelling. Computer Aided Chemical Engineering, 2017, 40, 205-210. | 0.5 | 0 |
| 108 | Computational chemical product design problems under property uncertainties. Computer Aided Chemical Engineering, 2017, , 973-978. | 0.5 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Scaleâ€up of industrial biodiesel production to 40â€‰m<sup>3</sup> using a liquid lipase formulation. Biotechnology and Bioengineering, 2016, 113, 1719-1728. | 3.3 | 46 |
| 110 | A microfluidic toolbox for the development of in-situ product removal strategies in biocatalysis. Journal of Flow Chemistry, 2016, 6, 18-26. | 1.9 | 9 |
| 111 | Continuous production of chitooligosaccharides by an immobilized enzyme in a dual-reactor system. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, 211-217. | 1.8 | 36 |
| 112 | Application of NAD(P)H oxidase for cofactor regeneration in dehydrogenase catalyzed oxidations. Journal of Molecular Catalysis B: Enzymatic, 2016, 134, 331-339. | 1.8 | 50 |
| 113 | A Correlation between the Activity of Candida antarctica Lipase B and Differences in Binding Free Energies of Organic Solvent and Substrate. ACS Catalysis, 2016, 6, 6350-6361. | 11.2 | 45 |
| 114 | Measurement of oxygen transfer from air into organic solvents. Journal of Chemical Technology and Biotechnology, 2016, 91, 832-836. | 3.2 | 44 |
| 115 | Retro-Techno-Economic Analysis: Using (Bio)Process Systems Engineering Tools To Attain Process Target Values. Industrial & Engineering Chemistry Research, 2016, 55, 9865-9872. | 3.7 | 22 |
| 116 | Bioinspired Multifunctional Membrane for Aquatic Micropollutants Removal. ACS Applied Materials & Interfaces, 2016, 8, 30511-30522. | 8.0 | 81 |
| 117 | Enzymatic network for production of ether amines from alcohols. Biotechnology and Bioengineering, 2016, 113, 1853-1861. | 3.3 | 23 |
| 118 | Enzymatic pretreatment of lowâ€grade oils for biodiesel production. Biotechnology and Bioengineering, 2016, 113, 754-760. | 3.3 | 14 |
| 119 | A Rapid Selection Procedure for Simple Commercial Implementation of ï‰-Transaminase Reactions. Organic Process Research and Development, 2016, 20, 602-608. | 2.7 | 22 |
| 120 | The effect of cultivation media and washing whole-cell biocatalysts on monoamine oxidase catalyzed oxidative desymmetrization of 3-azabicyclo[3,3,0]octane. Enzyme and Microbial Technology, 2016, 83, 7-13. | 3.2 | 8 |
| 121 | Process limitations of a whole-cell P450 catalyzed reaction using a CYP153A-CPR fusion construct expressed in Escherichia coli. Applied Microbiology and Biotechnology, 2016, 100, 1197-1208. | 3.6 | 27 |
| 122 | Model-Based Analysis and Efficient Operation of a Glucose Isomerization Reactor Plant. Computer Aided Chemical Engineering, 2015, 37, 563-568. | 0.5 | 1 |
| 123 | A Practical and Fast Method To Predict the Thermodynamic Preference of ï‰â€Transaminaseâ€Based Transformations. ChemCatChem, 2015, 7, 2594-2597. | 3.7 | 15 |
| 124 | Application of Enzyme Coupling Reactions to Shift Thermodynamically Limited Biocatalytic Reactions. ChemCatChem, 2015, 7, 3094-3105. | 3.7 | 67 |
| 125 | Thermodynamic Calculations for Systems Biocatalysis. Computer Aided Chemical Engineering, 2015, 37, 233-238. | 0.5 | 0 |
| 126 | Topology optimization for biocatalytic microreactor configurations. Computer Aided Chemical Engineering, 2015, , 1463-1468. | 0.5 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Oxygen transfer rates and requirements in oxidative biocatalysis. Computer Aided Chemical Engineering, 2015, 37, 2111-2116. | 0.5 | 6 |
| 128 | Economic Considerations for Selecting an Amine Donor in Biocatalytic Transamination. Organic Process Research and Development, 2015, 19, 652-660. | 2.7 | 20 |
| 129 | Sustainable process synthesisâ€“intensification. Computers and Chemical Engineering, 2015, 81, 218-244. | 3.8 | 110 |
| 130 | Study of wettability of calcite surfaces using oilâ€“brineâ€“enzyme systems for enhanced oil recovery applications. Journal of Petroleum Science and Engineering, 2015, 127, 53-64. | 4.2 | 24 |
| 131 | Thermodynamic Modeling of Multiâ€phase Solidâ€“Liquid Equilibria in Industrialâ€Grade Oils and Fats. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 17-28. | 1.9 | 15 |
| 132 | Guidelines for development and implementation of biocatalytic P450 processes. Applied Microbiology and Biotechnology, 2015, 99, 2465-2483. | 3.6 | 83 |
| 133 | From Fed-batch to Continuous Enzymatic Biodiesel Production. Computer Aided Chemical Engineering, 2015, , 1337-1342. | 0.5 | 3 |
| 134 | Process Alternatives for Second Generation Ethanol Production from Sugarcane Bagasse. Computer Aided Chemical Engineering, 2015, , 1349-1354. | 0.5 | 2 |
| 135 | Amine donor and acceptor influence on the thermodynamics of Ï‰-transaminase reactions. Tetrahedron: Asymmetry, 2015, 26, 567-570. | 1.8 | 20 |
| 136 | Immobilisation of Ï‰-transaminase for industrial application: Screening and characterisation of commercial ready to use enzyme carriers. Journal of Molecular Catalysis B: Enzymatic, 2015, 117, 54-61. | 1.8 | 40 |
| 137 | Process development for the production of 15Î²-hydroxycyproterone acetate using Bacillus megaterium expressing CYP106A2 as whole-cell biocatalyst. Microbial Cell Factories, 2015, 14, 28. | 4.0 | 28 |
| 138 | Microscale technology and biocatalytic processes: opportunities and challenges for synthesis. Trends in Biotechnology, 2015, 33, 302-314. | 9.3 | 167 |
| 139 | Synthesis of 5-hydroxymethylfurfural (HMF) by acid catalyzed dehydration of glucoseâ€“fructose mixtures. Chemical Engineering Journal, 2015, 273, 455-464. | 12.7 | 114 |
| 140 | Integrated Process Design and Control of Reactive Distillation Processes. IFAC-PapersOnLine, 2015, 48, 1120-1125. | 0.9 | 21 |
| 141 | Process Requirements of Galactose Oxidase Catalyzed Oxidation of Alcohols. Organic Process Research and Development, 2015, 19, 1580-1589. | 2.7 | 88 |
| 142 | Kinetic modeling of multi-component crystallization of industrial-grade oils and fats. European Journal of Lipid Science and Technology, 2015, 117, 1066-1078. | 1.5 | 5 |
| 143 | Rules for biocatalyst and reaction engineering to implement effective, NAD(P)H-dependent, whole cell bioreductions. Biotechnology Advances, 2015, 33, 1641-1652. | 11.7 | 63 |
| 144 | Realâ€time model based process monitoring of enzymatic biodiesel production. Biotechnology Progress, 2015, 31, 585-595. | 2.6 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Local Organizing Committee (Technical University of Denmark, Denmark). Computer Aided Chemical Engineering, 2015, 37, xxv. | 0.5 | 0 |
| 146 | Sustainable Process Synthesis-Intensification. Computer Aided Chemical Engineering, 2014, , 255-260. | 0.5 | 10 |
| 147 | Introducing an Inâ€...Situ Capping Strategy in Systems Biocatalysis To Access 6â€Aminohexanoic acid. Angewandte Chemie - International Edition, 2014, 53, 14153-14157. | 13.8 | 95 |
| 148 | A process synthesis-intensification framework for the development of sustainable membrane-based operations. Chemical Engineering and Processing: Process Intensification, 2014, 86, 173-195. | 3.6 | 49 |
| 149 | Application of environmental and economic metrics to guide the development of biocatalytic processes. Green Processing and Synthesis, 2014, 3, 195-213. | 3.4 | 44 |
| 150 | The Virtual Product-Process Design Laboratory for Structured Chemical Product Design and Analysis. Computer Aided Chemical Engineering, 2014, , 61-66. | 0.5 | 7 |
| 151 | reSystematic Development of Miniaturized (Bio)Processes using Process Systems Engineering (PSE) Methods and Tools. Chemical and Biochemical Engineering Quarterly, 2014, 28, 203-214. | 0.9 | 3 |
| 152 | A model to assess the feasibility of shifting reaction equilibrium by acetone removal in the transamination of ketones using 2â€propylamine. Biotechnology and Bioengineering, 2014, 111, 309-319. | 3.3 | 42 |
| 153 | Engineering of Biocatalysts and Biocatalytic Processes. Topics in Catalysis, 2014, 57, 301-320. | 2.8 | 44 |
| 154 | Batch production of FAEE-biodiesel using a liquid lipase formulation. Journal of Molecular Catalysis B: Enzymatic, 2014, 105, 89-94. | 1.8 | 47 |
| 155 | Biocatalytic process development using microfluidic miniaturized systems. Green Processing and Synthesis, 2014, 3, . | 3.4 | 11 |
| 156 | Kinetic study on the enzymatic esterification of octanoic acid and hexanol by immobilized Candida antarctica lipase B. Journal of Molecular Catalysis B: Enzymatic, 2014, 110, 64-71. | 1.8 | 45 |
| 157 | Mechanistic modeling of biodiesel production using a liquid lipase formulation. Biotechnology Progress, 2014, 30, 1277-1290. | 2.6 | 28 |
| 158 | Inhibition of Gas Hydrate Nucleation and Growth: Efficacy of an Antifreeze Protein from the Longhorn Beetle Rhagium mordax. Energy & Fuels, 2014, 28, 3666-3672. | 5.1 | 90 |
| 159 | Process characterization of a monoamine oxidase. Journal of Molecular Catalysis B: Enzymatic, 2014, 106, 124-131. | 1.8 | 10 |
| 160 | A systematic methodology for design of tailor-made blended products. Computers and Chemical Engineering, 2014, 66, 201-213. | 3.8 | 64 |
| 161 | Identification of critical parameters in liquid enzymeâ€catalyzed biodiesel production. Biotechnology and Bioengineering, 2014, 111, 2446-2453. | 3.3 | 44 |
| 162 | Fed-Batch Feeding Strategies for Enzymatic Biodiesel Production. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6204-6209. | 0.4 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Enzymatically Assisted CO2 Removal from Flue-gas. Energy Procedia, 2014, 63, 624-632. | 1.8 | 23 |
| 164 | Identification and use of an alkane transporter plug-in for applications in biocatalysis and whole-cell biosensing of alkanes. Scientific Reports, 2014, 4, 5844. | 3.3 | 54 |
| 165 | Achieving More Sustainable Designs through a Process Synthesis-Intensification Framework. Computer Aided Chemical Engineering, 2014, , 31-36. | 0.5 | 3 |
| 166 | A future perspective on the role of industrial biotechnology for chemicals production. Chemical Engineering Research and Design, 2013, 91, 2029-2036. | 5.6 | 46 |
| 167 | Reaction Engineering of Biocatalytic Enantioselective Reduction: A Case Study for Aliphatic Ketones. Organic Process Research and Development, 2013, 17, 1027-1035. | 2.7 | 11 |
| 168 | Advances in the Process Development of Biocatalytic Processes. Organic Process Research and Development, 2013, 17, 1233-1238. | 2.7 | 70 |
| 169 | Microreactors and CFD as Tools for Biocatalysis Reactor Design: A case study. Chemical Engineering and Technology, 2013, 36, 1017-1026. | 1.5 | 17 |
| 170 | Life cycle assessment in green chemistry: overview of key parameters and methodological concerns. International Journal of Life Cycle Assessment, 2013, 18, 431-444. | 4.7 | 90 |
| 171 | Systematic substrate adoption methodology (SAM) for future flexible, generic pharmaceutical production processes. Computers and Chemical Engineering, 2013, 58, 344-368. | 3.8 | 14 |
| 172 | Scaleâ€up and intensification of (S)â€1â€(2â€chlorophenyl)ethanol bioproduction: Economic evaluation of whole cellâ€catalyzed reduction of oâ€Chloroacetophenone. Biotechnology and Bioengineering, 2013, 110, 2311-2315. | 3.3 | 18 |
| 173 | Protein engineering of enzymes for process applications. Current Opinion in Chemical Biology, 2013, 17, 310-316. | 6.1 | 153 |
| 174 | Kinetic model of biodiesel production using immobilized lipase Candida antarctica lipase B. Journal of Molecular Catalysis B: Enzymatic, 2013, 85-86, 156-168. | 1.8 | 42 |
| 175 | Phenomena Based Methodology for Process Synthesis Incorporating Process Intensification. Industrial & Engineering Chemistry Research, 2013, 52, 7127-7144. | 3.7 | 134 |
| 176 | Application of Uncertainty and Sensitivity Analysis to a Kinetic Model for Enzymatic Biodiesel Production. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 149-156. | 0.4 | 3 |
| 177 | Design of Sustainable Blended Products using an Integrated Methodology. Computer Aided Chemical Engineering, 2013, , 835-840. | 0.5 | 6 |
| 178 | A two-stage enzymatic ethanol-based biodiesel production in a packed bed reactor. Journal of Biotechnology, 2012, 162, 407-414. | 3.8 | 32 |
| 179 | Enzymatic isomerization of glucose and xylose in ionic liquids. Catalysis Science and Technology, 2012, 2, 291-295. | 4.1 | 25 |
| 180 | Development of continuous pharmaceutical production processes supported by process systems engineering methods and tools. Future Medicinal Chemistry, 2012, 4, 1371-1374. | 2.3 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | A perspective on PSE in pharmaceutical process development and innovation. Computers and Chemical Engineering, 2012, 42, 15-29. | 3.8 | 120 |
| 182 | PSE opportunities in biocatalytic process design and development. Computer Aided Chemical Engineering, 2012, 31, 875-879. | 0.5 | 1 |
| 183 | A generic process template for continuous pharmaceutical production. Computer Aided Chemical Engineering, 2012, , 715-719. | 0.5 | 2 |
| 184 | An Integrated Methodology for Design of Tailor-Made Blended Products. Computer Aided Chemical Engineering, 2012, , 752-756. | 0.5 | 9 |
| 185 | Experimental determination of thermodynamic equilibrium in biocatalytic transamination. Biotechnology and Bioengineering, 2012, 109, 2159-2162. | 3.3 | 47 |
| 186 | Tools for characterizing the wholeâ€cell bioâ€oxidation of alkanes at microscale. Biotechnology and Bioengineering, 2012, 109, 2179-2189. | 3.3 | 16 |
| 187 | Immobilization of Escherichia coli containing Ï‰â€transaminase activity in LentiKatsÂ®. Biotechnology Progress, 2012, 28, 693-698. | 2.6 | 36 |
| 188 | A robust methodology for kinetic model parameter estimation for biocatalytic reactions. Biotechnology Progress, 2012, 28, 1186-1196. | 2.6 | 46 |
| 189 | A systematic synthesis and design methodology to achieve process intensification in (bio) chemical processes. Computers and Chemical Engineering, 2012, 36, 189-207. | 3.8 | 41 |
| 190 | Process technology for multi-enzymatic reaction systems. Bioresource Technology, 2012, 115, 183-195. | 9.6 | 124 |
| 191 | Phenomena-based Process Synthesis and Design to achieve Process Intensification. Computer Aided Chemical Engineering, 2012, , 1697-1701. | 0.5 | 2 |
| 192 | Design of an Optimal Biorefinery. Computer Aided Chemical Engineering, 2011, , 371-376. | 0.5 | 6 |
| 193 | Multienzyme-Catalyzed Processes: Next-Generation Biocatalysis. Organic Process Research and Development, 2011, 15, 203-212. | 2.7 | 149 |
| 194 | Directed evolution of a thermostable l-aminoacylase biocatalyst. Journal of Biotechnology, 2011, 155, 396-405. | 3.8 | 10 |
| 195 | Methodological Approach for Modeling of Multienzyme in-pot Processes. Computer Aided Chemical Engineering, 2011, 29, 1346-1350. | 0.5 | 0 |
| 196 | In situ visualization and effect of glycerol in lipase-catalyzed ethanolysis of rapeseed oil. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 213-219. | 1.8 | 67 |
| 197 | Guidelines and Cost Analysis for Catalyst Production in Biocatalytic Processes. Organic Process Research and Development, 2011, 15, 266-274. | 2.7 | 396 |
| 198 | Synthesis of 5â€(Hydroxymethyl)furfural in Ionic Liquids: Paving the Way to Renewable Chemicals. ChemSusChem, 2011, 4, 451-458. | 6.8 | 237 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Chemoâ€enzymatic epoxidationâ€“process options for improving biocatalytic productivity. Biotechnology Progress, 2011, 27, 67-76. | 2.6 | 36 |
| 200 | Process considerations for the asymmetric synthesis of chiral amines using transaminases. Biotechnology and Bioengineering, 2011, 108, 1479-1493. | 3.3 | 212 |
| 201 | Whole-cell bio-oxidation of n-dodecane using the alkane hydroxylase system of P. putida GPo1 expressed in E. coli. Enzyme and Microbial Technology, 2011, 48, 480-486. | 3.2 | 38 |
| 202 | Optimal design of a multi-product biorefinery system. Computers and Chemical Engineering, 2011, 35, 1752-1766. | 3.8 | 144 |
| 203 | Kinetics of acetic acid synthesis from ethanol over a Cu/SiO2 catalyst. Applied Catalysis A: General, 2011, 402, 69-79. | 4.3 | 14 |
| 204 | PSE in Pharmaceutical Process Development. Computer Aided Chemical Engineering, 2011, , 1628-1632. | 0.5 | 1 |
| 205 | Design of tailor-made chemical blend using a decomposition-based computer-aided approach. , 2011, , . | | 2 |
| 206 | Phenomena-based Process Synthesis and Design to achieve Process Intensification. Computer Aided Chemical Engineering, 2011, 29, 221-225. | 0.5 | 5 |
| 207 | A retrofit strategy to achieve â€œFast, Flexible, Future (F3)â€•pharmaceutical production processes. Computer Aided Chemical Engineering, 2011, 29, 291-295. | 0.5 | 9 |
| 208 | Nextâ€Generation Catalysis for Renewables: Combining Enzymatic with Inorganic Heterogeneous Catalysis for Bulk Chemical Production. ChemCatChem, 2010, 2, 249-258. | 3.7 | 81 |
| 209 | Chemoenzymatic Combination of Glucose Oxidase with Titanium Silicaliteâ€1. ChemCatChem, 2010, 2, 943-945. | 3.7 | 30 |
| 210 | Application of bipolar electrodialysis to E. coli fermentation for simultaneous acetate removal and pH control. Biotechnology Letters, 2010, 32, 1053-1057. | 2.2 | 11 |
| 211 | Application of mechanistic models to fermentation and biocatalysis for next-generation processes. Trends in Biotechnology, 2010, 28, 346-354. | 9.3 | 111 |
| 212 | Process considerations for the scale-up and implementation of biocatalysis. Food and Bioproducts Processing, 2010, 88, 3-11. | 3.6 | 127 |
| 213 | Process intensification: A perspective on process synthesis. Chemical Engineering and Processing: Process Intensification, 2010, 49, 547-558. | 3.6 | 181 |
| 214 | Bioprocesses: Modeling needs for process evaluation and sustainability assessment. Computers and Chemical Engineering, 2010, 34, 1009-1017. | 3.8 | 81 |
| 215 | A model-based methodology for simultaneous design and control of a bioethanol production process. Computers and Chemical Engineering, 2010, 34, 2043-2061. | 3.8 | 32 |
| 216 | A systematic synthesis and design methodology to achieve process intensification in (bio) chemical processes. Computer Aided Chemical Engineering, 2010, , 241-246. | 0.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Synthesis, Design and Analysis of Downstream Separation in Bio-refinery Processes through a Group-Contribution Approach. Computer Aided Chemical Engineering, 2010, 28, 1147-1152. | 0.5 | 3 |
| 218 | A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase-/Ï‰-Transaminase-Mediated Synthesis of (2S,3S)-2-Aminopentane-1,3-diol. Organic Process Research and Development, 2010, 14, 99-107. | 2.7 | 80 |
| 219 | Heterogeneous Catalytic Distillation - A Patent Review. Recent Patents on Chemical Engineering, 2010, 3, 208-229. | 0.5 | 13 |
| 220 | New Opportunities for Process Systems Engineering in Industrial Biotechnology. Computer Aided Chemical Engineering, 2009, 27, 157-162. | 0.5 | 2 |
| 221 | Evaluating the impact of substrate and product concentration on a whole-cell biocatalyst during a Baeyer-Villiger reaction. Biocatalysis and Biotransformation, 2009, 27, 107-117. | 2.0 | 14 |
| 222 | Goldâ€Catalyzed Aerobic Oxidation of 5â€Hydroxymethylfurfural in Water at Ambient Temperature. ChemSusChem, 2009, 2, 672-675. | 6.8 | 289 |
| 223 | Enhanced recombinant protein synthesis in batch and fedâ€batch Escherichia coli fermentation based on removal of inhibitory acetate by electrodialysis. Journal of Chemical Technology and Biotechnology, 2009, 84, 1284-1291. | 3.2 | 11 |
| 224 | Application of modeling and simulation tools for the evaluation of biocatalytic processes: A future perspective. Biotechnology Progress, 2009, 25, 1529-1538. | 2.6 | 28 |
| 225 | Efficient microwave-assisted synthesis of 5-hydroxymethylfurfural from concentrated aqueous fructose. Carbohydrate Research, 2009, 344, 2568-2572. | 2.3 | 145 |
| 226 | Induction studies with Escherichia coli expressing recombinant interleukin-13 using multi-parameter flow cytometry. Biotechnology Letters, 2009, 31, 577-584. | 2.2 | 5 |
| 227 | An efficient approach to bioconversion kinetic model generation based on automated microscale experimentation integrated with model driven experimental design. Chemical Engineering Science, 2009, 64, 403-409. | 3.8 | 12 |
| 228 | Process integration for the conversion of glucose to 2,5-furandicarboxylic acid. Chemical Engineering Research and Design, 2009, 87, 1318-1327. | 5.6 | 154 |
| 229 | Biorefining: Computer aided tools for sustainable design and analysis of bioethanol production. Chemical Engineering Research and Design, 2009, 87, 1171-1183. | 5.6 | 90 |
| 230 | Modelling and simulation of a transketolase mediated reaction: Sensitivity analysis of kinetic parameters. Biochemical Engineering Journal, 2009, 47, 1-9. | 3.6 | 13 |
| 231 | Process modelling and simulation of a transketolase mediated reaction: Analysis of alternative modes of operation. Biochemical Engineering Journal, 2009, 47, 10-18. | 3.6 | 9 |
| 232 | Introducing mechanistic models in Process Analytical Technology education. Biotechnology Journal, 2009, 4, 593-599. | 3.5 | 9 |
| 233 | Biocatalysts for selective introduction of oxygen. Biocatalysis and Biotransformation, 2009, 27, 1-26. | 2.0 | 72 |
| 234 | A Model-Based Methodology for Simultaneous Design and Control of a Bioethanol Production Process. Computer Aided Chemical Engineering, 2009, 27, 237-242. | 0.5 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Future directions for inâ€situ product removal (ISPR). Journal of Chemical Technology and Biotechnology, 2008, 83, 121-123. | 3.2 | 128 |
| 236 | Characterization of enzymatic <scp>D</scp>â€xylulose 5â€phosphate synthesis. Biotechnology and Bioengineering, 2008, 101, 761-767. | 3.3 | 45 |
| 237 | A new approach to bioconversion reaction kinetic parameter identification. AICHE Journal, 2008, 54, 2155-2163. | 3.6 | 31 |
| 238 | Model visualization for evaluation of biocatalytic processes. Food and Bioproducts Processing, 2008, 86, 96-103. | 3.6 | 9 |
| 239 | New opportunities for biocatalysis: making pharmaceutical processes greener. Trends in Biotechnology, 2008, 26, 321-327. | 9.3 | 388 |
| 240 | The First 200-L Scale Asymmetric Baeyerâ€“Villiger Oxidation Using a Whole-Cell Biocatalyst. Organic Process Research and Development, 2008, 12, 660-665. | 2.7 | 74 |
| 241 | PEER REVIEW ORIGINAL RESEARCH: EHS & LCA assessment for 7-ACA synthesis A case study for comparing biocatalytic & chemical synthesis. Industrial Biotechnology, 2008, 4, 180-192. | 0.8 | 66 |
| 242 | CAPE methods and tools for systematic analysis of new chemical product design and development. Computer Aided Chemical Engineering, 2008, , 997-1002. | 0.5 | 3 |
| 243 | Accelerating biocatalytic process design: Integrating new tools from biology, chemistry and engineering. Journal of Biotechnology, 2007, 131, S78. | 3.8 | 0 |
| 244 | Integration of biocatalytic conversions into chemical syntheses. Journal of Chemical Technology and Biotechnology, 2007, 82, 1063-1066. | 3.2 | 40 |
| 245 | In Focus: Biocatalysis Editorial. Journal of Chemical Technology and Biotechnology, 2007, 82, 1053-1054. | 3.2 | 0 |
| 246 | Modelling and optimisation of a transketolase-mediated carbonâ€“carbon bond formation reaction. Chemical Engineering Science, 2007, 62, 3178-3184. | 3.8 | 27 |
| 247 | Substrate Supply for Effective Biocatalysis. Biotechnology Progress, 2007, 23, 74-82. | 2.6 | 93 |
| 248 | Biocatalysis for pharmaceutical intermediates: the future is now. Trends in Biotechnology, 2007, 25, 66-73. | 9.3 | 609 |
| 249 | Microbial Biocatalytic Processes and Their Development. Advances in Applied Microbiology, 2006, 60, 1-15. | 2.4 | 51 |
| 250 | Reaction modelling and simulation to assess the integrated use of transketolase and Ï‰-transaminase for the synthesis of an aminotriol. Biocatalysis and Biotransformation, 2006, 24, 449-457. | 2.0 | 28 |
| 251 | Semiquantitative Process Screening for the Biocatalytic Synthesis ofd-Xylulose-5-phosphate. Organic Process Research and Development, 2006, 10, 605-610. | 2.7 | 42 |
| 252 | Choice of biocatalyst form for scalable processes. Biochemical Society Transactions, 2006, 34, 301. | 3.4 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Fluid mixing in shaken bioreactors: Implications for scale-up predictions from microlitre-scale microbial and mammalian cell cultures. Chemical Engineering Science, 2006, 61, 2939-2949. | 3.8 | 124 |
| 254 | Process limitations in a whole-cell catalysed oxidation: Sensitivity analysis. Chemical Engineering Science, 2006, 61, 6646-6652. | 3.8 | 38 |
| 255 | On the influence of oxygen and cell concentration in an SFPR whole cell biocatalytic Baeyerâ€“Villiger oxidation process. Biotechnology and Bioengineering, 2006, 93, 1138-1144. | 3.3 | 58 |
| 256 | On oxygen limitation in a whole cell biocatalytic Baeyerâ€“Villiger oxidation process. Biotechnology and Bioengineering, 2006, 95, 362-369. | 3.3 | 72 |
| 257 | Directed evolution of biocatalytic processes. New Biotechnology, 2005, 22, 11-19. | 2.7 | 107 |
| 258 | One-Pot Synthesis and the Integration of Chemical and Biocatalytic Conversions. , 2005, , 419-428. | | 6 |
| 259 | Comparison of cyclohexanone monooxygenase as an isolated enzyme and whole cell biocatalyst for the enantioselective oxidation of 1,3-dithiane. Journal of Molecular Catalysis B: Enzymatic, 2004, 31, 165-171. | 1.8 | 25 |
| 260 | An alternative bioreactor concept for application of an isolated oxidoreductase for asymmetric ketone reduction. Tetrahedron, 2004, 60, 781-788. | 1.9 | 30 |
| 261 | Controlled-release biocatalysis for the synthesis of D-phenylglycine. Biocatalysis and Biotransformation, 2004, 22, 195-201. | 2.0 | 8 |
| 262 | Accelerated design of bioconversion processes using automated microscale processing techniques. Trends in Biotechnology, 2003, 21, 29-37. | 9.3 | 129 |
| 263 | Towards large-scale synthetic applications of Baeyer-Villiger monooxygenases. Trends in Biotechnology, 2003, 21, 318-323. | 9.3 | 184 |
| 264 | Measurement of strain-dependent toxicity in the indene bioconversion using multiparameter flow cytometry. Biotechnology and Bioengineering, 2003, 81, 405-420. | 3.3 | 20 |
| 265 | Characterization of a recombinant Escherichia coli TOP10 [pQR239] whole-cell biocatalyst for stereoselective Baeyerâ€“Villiger oxidations. Enzyme and Microbial Technology, 2003, 32, 347-355. | 3.2 | 80 |
| 266 | Regiospecific naphthalene monohydroxylation by a recombinant yeast producing a P4501A1â€“yeast reductase fused enzyme. Enzyme and Microbial Technology, 2003, 33, 606-611. | 3.2 | 4 |
| 267 | Near-IR Spectroscopic Monitoring of Analytes during Microbially Catalysed Baeyerâ^'Villiger Bioconversions. Organic Process Research and Development, 2002, 6, 569-576. | 2.7 | 6 |
| 268 | Better Biocatalytic Processes Faster:Â New Tools for the Implementation of Biocatalysis in Organic Synthesis. Organic Process Research and Development, 2002, 6, 434-440. | 2.7 | 41 |
| 269 | Modelling of the Baeyer-Villiger Monooxygenase Catalysed Synthesis of Optically Pure Lactones. Food and Bioproducts Processing, 2002, 80, 51-55. | 3.6 | 3 |
| 270 | Use of isolated cyclohexanone monooxygenase from recombinantEscherichia coli as a biocatalyst for Baeyer-Villiger and sulfide oxidations. Biotechnology and Bioengineering, 2002, 78, 489-496. | 3.3 | 100 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | The use of microscale processing technologies for quantification of biocatalytic Baeyer-Villiger oxidation kinetics. Biotechnology and Bioengineering, 2002, 80, 42-49. | 3.3 | 60 |
| 272 | Application of multi-parameter flow cytometry using fluorescent probes to study substrate toxicity in the indene bioconversion. Biotechnology and Bioengineering, 2002, 80, 239-249. | 3.3 | 26 |
| 273 | Wavelet shrinkage data processing for neural networks in bioprocess modeling. Computers and Chemical Engineering, 2002, 26, 1611-1620. | 3.8 | 6 |
| 274 | Fed-batch bioconversion of indene to cis-indandiol. Enzyme and Microbial Technology, 2002, 31, 954-967. | 3.2 | 14 |
| 275 | The search for the ideal biocatalyst. Nature Biotechnology, 2002, 20, 37-45. | 17.5 | 275 |
| 276 | Reactor Operation and Scale-Up of Whole Cell Baeyer-Villiger Catalyzed Lactone Synthesis. Biotechnology Progress, 2002, 18, 1039-1046. | 2.6 | 88 |
| 277 | The use of oxygen uptake rate measurements to control the supply of toxic substrate: toluene hydroxylation by Pseudomonas putida UV4. Enzyme and Microbial Technology, 2001, 28, 183-188. | 3.2 | 21 |
| 278 | Large scale production of cyclohexanone monooxygenase from Escherichia coli TOP10 pQR239. Enzyme and Microbial Technology, 2001, 28, 265-274. | 3.2 | 119 |
| 279 | Title is missing!. Biotechnology Letters, 2001, 23, 385-388. | 2.2 | 9 |
| 280 | Modelling of two enzyme reactions in a linked cofactor recycle system for chiral lactone synthesis. Chemical Engineering Science, 2000, 55, 2001-2008. | 3.8 | 34 |
| 281 | Candida cloacae oxidation of long-chain fatty acids to dioic acids. Enzyme and Microbial Technology, 2000, 27, 205-211. | 3.2 | 42 |
| 282 | Design of a control system for biotransformation of toxic substrates: toluene hydroxylation by Pseudomonas putida UV4. Enzyme and Microbial Technology, 2000, 26, 530-536. | 3.2 | 29 |
| 283 | Advances in Enzyme Technology â€" UK Contributions. Advances in Biochemical Engineering/Biotechnology, 2000, 70, 93-108. | 1.1 | 2 |
| 284 | Process Effects of By-Product Carbon Dioxide Production from Transketolase-Catalysed Condensations. Biocatalysis and Biotransformation, 1999, 16, 427-441. | 2.0 | 1 |
| 285 | Application of in situ product-removal techniques to biocatalytic processes. Trends in Biotechnology, 1999, 17, 395-402. | 9.3 | 194 |
| 286 | Immobilised transketolase for carbonâ€"carbon bond synthesis: biocatalyst stability. Journal of Molecular Catalysis B: Enzymatic, 1999, 7, 223-231. | 1.8 | 28 |
| 287 | Alkaline biocatalysis for the direct synthesis ofN-acetyl-D-neuraminic acid (Neu5Ac) fromN-acetyl-D-glucosamine (GlcNAc). , 1999, 66, 131-136. | | 42 |
| 288 | UCL biochemical engineering. , 1998, 60, 527-533. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Escherichia coli transketolase-catalyzed carbon-carbon bond formation: biotransformation characterization for reactor evaluation and selection. Enzyme and Microbial Technology, 1998, 22, 64-70. | 3.2 | 44 |
| 290 | Process design for the oxidation of fluorobenzene to fluorocatechol by Pseudomonas putida. Journal of Biotechnology, 1997, 58, 167-175. | 3.8 | 27 |
| 291 | Membrane Separation for Downstream Processing of Aqueous-Organic Bioconversions. Biotechnology Progress, 1997, 13, 276-283. | 2.6 | 20 |
| 292 | Application of FSQ Spectrophotometric Multicomponent Analysis to Bioconversion Monitoring. Biotechnology Progress, 1997, 13, 715-721. | 2.6 | 2 |
| 293 | Boron based separations for in situ recovery of L-erythrulose from transketolase-catalyzed condensation. Biotechnology and Bioengineering, 1997, 56, 345-351. | 3.3 | 24 |
| 294 | Boron based separations for in situ recovery of L-erythrulose from transketolase-catalyzed condensation. , 1997, 56, 345. | | 1 |
| 295 | Enzyme-catalysed carbon-carbon bond formation: Large-scale production of Escherichia coli transketolase. Journal of Biotechnology, 1996, 45, 173-179. | 3.8 | 42 |
| 296 | Carbon-Carbon Bond Synthesis.. Annals of the New York Academy of Sciences, 1996, 799, 434-445. | 3.8 | 14 |
| 297 | In Situ Product Removal from E. coli Transketolase-catalyzed Biotransformations. Annals of the New York Academy of Sciences, 1996, 799, 545-554. | 3.8 | 11 |
| 298 | Carbon-Carbon Bond Synthesis.. Annals of the New York Academy of Sciences, 1996, 799, 729-736. | 3.8 | 5 |
| 299 | Choice of microbial host for the naphthalene dioxygenase bioconversion. Journal of Industrial Microbiology, 1996, 16, 274-279. | 0.9 | 3 |
| 300 | Transketolase from Escherichia coli: A practical procedure for using the biocatalyst for asymmetric carbon-carbon bond synthesis. Tetrahedron: Asymmetry, 1996, 7, 2185-2188. | 1.8 | 83 |
| 301 | A useful assay for transketolase in asymmetric syntheses. Biotechnology Letters, 1996, 10, 167-172. | 0.5 | 19 |
| 302 | Characterization of the Chemoenzymatic Synthesis of N-Acetyl-D-neuraminic Acid (Neu5Ac). Biotechnology Progress, 1996, 12, 758-763. | 2.6 | 44 |
| 303 | Determination of reactor operation for the microbial hydroxylation of toluene in a two-liquid phase process. Journal of Industrial Microbiology, 1995, 14, 382-388. | 0.9 | 41 |
| 304 | Process Synthesis for Multi-Step Microbial Conversions. Bio/technology, 1995, 13, 1072-1078. | 1.5 | 14 |
| 305 | In Situ Product Removal as a Tool for Bioprocessing. Nature Biotechnology, 1993, 11, 1007-1012. | 17.5 | 188 |
| 306 | Enzyme-catalysed carbonâ€“carbon bond formation: use of transketolase from Escherichia coli. Journal of the Chemical Society Perkin Transactions 1, 1993, , 165-166. | 0.9 | 76 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Production of naphthalene-cis-glycol by Pseudomonas putida in the presence of organic solvents. Enzyme and Microbial Technology, 1992, 14, 725-730. | 3.2 | 45 |
| 308 | Process Engineering of Two-Liquid Phase Biocatalysis. Progress in Biotechnology, 1992, 8, 147-154. | 0.2 | 21 |
| 309 | A comparison of pig liver esterase and Bacillus subtilis as catalysts for the hydrolysis of menthyl acetate in stirred two-liquid phase reactors. Enzyme and Microbial Technology, 1990, 12, 260-265. | 3.2 | 17 |