John M Woodley

List of Publications by Year
in descending order

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	Role of Biocatalysis in Sustainable Chemistry. Chemical Reviews, 2018, 118, 801-838.	47.7	1,175
2	Biocatalysis for pharmaceutical intermediates: the future is now. Trends in Biotechnology, 2007, 25, 66-73.	9.3	609
3	Guidelines and Cost Analysis for Catalyst Production in Biocatalytic Processes. Organic Process Research and Development, 2011, 15, 266-274.	2.7	396
4	New opportunities for biocatalysis: making pharmaceutical processes greener. Trends in Biotechnology, 2008, 26, 321-327.	9.3	388
5	Parameters necessary to define an immobilized enzyme preparation. Process Biochemistry, 2020, 90, 66-80.	3.7	306
6	Goldâ€Catalyzed Aerobic Oxidation of 5â€Hydroxymethylfurfural in Water at Ambient Temperature. ChemSusChem, 2009, 2, 672-675.	6.8	289
7	The search for the ideal biocatalyst. Nature Biotechnology, 2002, 20, 37-45.	17.5	275
8	Synthesis of 5â€(Hydroxymethyl)furfural in Ionic Liquids: Paving the Way to Renewable Chemicals. ChemSusChem, 2011, 4, 451-458.	6.8	237
9	Process considerations for the asymmetric synthesis of chiral amines using transaminases. Biotechnology and Bioengineering, 2011, 108, 1479-1493.	3.3	212
10	Application of in situ product-removal techniques to biocatalytic processes. Trends in Biotechnology, 1999, 17, 395-402.	9.3	194
11	In Situ Product Removal as a Tool for Bioprocessing. Nature Biotechnology, 1993, 11, 1007-1012.	17.5	188
12	Towards large-scale synthetic applications of Baeyer-Villiger monooxygenases. Trends in Biotechnology, 2003, 21, 318-323.	9.3	184
13	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
14	Process intensification: A perspective on process synthesis. Chemical Engineering and Processing: Process Intensification, 2010, 49, 547-558.	3.6	181
15	Microscale technology and biocatalytic processes: opportunities and challenges for synthesis. Trends in Biotechnology, 2015, 33, 302-314.	9.3	167
16	Process integration for the conversion of glucose to 2,5-furandicarboxylic acid. Chemical Engineering Research and Design, 2009, 87, 1318-1327.	5.6	154
17	Protein engineering of enzymes for process applications. Current Opinion in Chemical Biology, 2013, 17, 310-316.	6.1	153
18	Multienzyme-Catalyzed Processes: Next-Generation Biocatalysis. Organic Process Research and Development, 2011, 15, 203-212.	2.7	149

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19	Efficient microwave-assisted synthesis of 5-hydroxymethylfurfural from concentrated aqueous fructose. Carbohydrate Research, 2009, 344, 2568-2572.	2.3	145
20	Optimal design of a multi-product biorefinery system. Computers and Chemical Engineering, 2011, 35, 1752-1766.	3.8	144
21	Phenomena Based Methodology for Process Synthesis Incorporating Process Intensification. Industrial & Engineering Chemistry Research, 2013, 52, 7127-7144.	3.7	134
22	Accelerated design of bioconversion processes using automated microscale processing techniques. Trends in Biotechnology, 2003, 21, 29-37.	9.3	129
23	Future directions for <i>inâ€situ</i> product removal (ISPR). Journal of Chemical Technology and Biotechnology, 2008, 83, 121-123.	3.2	128
24	Process considerations for the scale-up and implementation of biocatalysis. Food and Bioproducts Processing, 2010, 88, 3-11.	3.6	127
25	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
26	Process technology for multi-enzymatic reaction systems. Bioresource Technology, 2012, 115, 183-195.	9.6	124
27	A perspective on PSE in pharmaceutical process development and innovation. Computers and Chemical Engineering, 2012, 42, 15-29.	3.8	120
28	Large scale production of cyclohexanone monooxygenase from Escherichia coli TOP10 pQR239. Enzyme and Microbial Technology, 2001, 28, 265-274.	3.2	119
29	Synthesis of 5-hydroxymethylfurfural (HMF) by acid catalyzed dehydration of glucoseâ€"fructose mixtures. Chemical Engineering Journal, 2015, 273, 455-464.	12.7	114
30	Accelerating the implementation of biocatalysis in industry. Applied Microbiology and Biotechnology, 2019, 103, 4733-4739.	3.6	112
31	Application of mechanistic models to fermentation and biocatalysis for next-generation processes. Trends in Biotechnology, 2010, 28, 346-354.	9.3	111
32	Sustainable process synthesisâ€"intensification. Computers and Chemical Engineering, 2015, 81, 218-244.	3.8	110
33	A generic methodology for processing route synthesis and design based on superstructure optimization. Computers and Chemical Engineering, 2017, 106, 892-910.	3.8	109
34	Directed evolution of biocatalytic processes. New Biotechnology, 2005, 22, 11-19.	2.7	107
35	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
36	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

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37	Substrate Supply for Effective Biocatalysis. Biotechnology Progress, 2007, 23, 74-82.	2.6	93
38	Biorefining: Computer aided tools for sustainable design and analysis of bioethanol production. Chemical Engineering Research and Design, 2009, 87, 1171-1183.	5.6	90
39	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
40	Inhibition of Gas Hydrate Nucleation and Growth: Efficacy of an Antifreeze Protein from the Longhorn Beetle <i>Rhagium mordax</i>. Energy & Fuels, 2014, 28, 3666-3672.	5.1	90
41	Reactor Operation and Scale-Up of Whole Cell Baeyer-Villiger Catalyzed Lactone Synthesis. Biotechnology Progress, 2002, 18, 1039-1046.	2.6	88
42	Process Requirements of Galactose Oxidase Catalyzed Oxidation of Alcohols. Organic Process Research and Development, 2015, 19, 1580-1589.	2.7	88
43	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
44	Guidelines for development and implementation of biocatalytic P450 processes. Applied Microbiology and Biotechnology, 2015, 99, 2465-2483.	3.6	83
45	Nextâ€Generation Catalysis for Renewables: Combining Enzymatic with Inorganic Heterogeneous Catalysis for Bulk Chemical Production. ChemCatChem, 2010, 2, 249-258.	3.7	81
46	Bioprocesses: Modeling needs for process evaluation and sustainability assessment. Computers and Chemical Engineering, 2010, 34, 1009-1017.	3.8	81
47	Bioinspired Multifunctional Membrane for Aquatic Micropollutants Removal. ACS Applied Materials & Interfaces, 2016, 8, 30511-30522.	8.0	81
48	New frontiers in biocatalysis for sustainable synthesis. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 22-26.	5.9	81
49	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
50	A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase-/ï‰-Transaminase-Mediated Synthesis of (2<i>S</i>,3<i>S</i>)-2-Aminopentane-1,3-diol. Organic Process Research and Development, 2010, 14, 99-107.	2.7	80
51	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
52	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
53	On oxygen limitation in a whole cell biocatalytic Baeyerâ€"Villiger oxidation process. Biotechnology and Bioengineering, 2006, 95, 362-369.	3.3	72
54	Biocatalysts for selective introduction of oxygen. Biocatalysis and Biotransformation, 2009, 27, 1-26.	2.0	72

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55	Advances in the Process Development of Biocatalytic Processes. Organic Process Research and Development, 2013, 17, 1233-1238.	2.7	70
56	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals. Catalysts, 2019, 9, 262.	3.5	68
57	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
58	Application of Enzyme Coupling Reactions to Shift Thermodynamically Limited Biocatalytic Reactions. ChemCatChem, 2015, 7, 3094-3105.	3.7	67
59	Screening of organic solvents for bioprocesses using aqueous-organic two-phase systems. Biotechnology Advances, 2018, 36, 1801-1814.	11.7	67
60	PEER REVIEW ORIGINAL RESEARCH: EHS & LCA assessment for 7-ACA synthesis <i>A case study for comparing biocatalytic & chemical synthesis</i>. Industrial Biotechnology, 2008, 4, 180-192.	0.8	66
61	Sustainable bio-succinic acid production: superstructure optimization, techno-economic, and lifecycle assessment. Energy and Environmental Science, 2021, 14, 3542-3558.	30.8	65
62	A systematic methodology for design of tailor-made blended products. Computers and Chemical Engineering, 2014, 66, 201-213.	3.8	64
63	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
64	The use of microscale processing technologies for quantification of biocatalytic Baeyer-Villiger oxidation kinetics. Biotechnology and Bioengineering, 2002, 80, 42-49.	3.3	60
65	Group Contribution Based Estimation Method for Properties of Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 4277-4292.	3.7	59
66	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
67	A multi-layered view of chemical and biochemical engineering. Chemical Engineering Research and Design, 2020, 155, A133-A145.	5.6	58
68	Bioprocess intensification for the effective production of chemical products. Computers and Chemical Engineering, 2017, 105, 297-307.	3.8	56
69	Toward scalable biocatalytic conversion of 5-hydroxymethylfurfural by galactose oxidase using coordinated reaction and enzyme engineering. Nature Communications, 2021, 12, 4946.	12.8	56
70	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
71	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
72	The Potential of Biogas; the Solution to Energy Storage. ChemSusChem, 2019, 12, 2147-2153.	6.8	52

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73	Microbial Biocatalytic Processes and Their Development. Advances in Applied Microbiology, 2006, 60, 1-15.	2.4	51
74	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
75	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
76	Considerations when Measuring Biocatalyst Performance. Molecules, 2019, 24, 3573.	3.8	48
77	Experimental determination of thermodynamic equilibrium in biocatalytic transamination. Biotechnology and Bioengineering, 2012, 109, 2159-2162.	3.3	47
78	Batch production of FAEE-biodiesel using a liquid lipase formulation. Journal of Molecular Catalysis B: Enzymatic, 2014, 105, 89-94.	1.8	47
79	A robust methodology for kinetic model parameter estimation for biocatalytic reactions. Biotechnology Progress, 2012, 28, 1186-1196.	2.6	46
80	A future perspective on the role of industrial biotechnology for chemicals production. Chemical Engineering Research and Design, 2013, 91, 2029-2036.	5.6	46
81	Scaleâ€up of industrial biodiesel production to 40â€‰m³ using a liquid lipase formulation. Biotechnology and Bioengineering, 2016, 113, 1719-1728.	3.3	46
82	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
83	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
84	Characterization of enzymatic <scp>D</scp>â€xylulose 5â€phosphate synthesis. Biotechnology and Bioengineering, 2008, 101, 761-767.	3.3	45
85	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
86	A Correlation between the Activity of <i>Candida antarctica</i> Lipase B and Differences in Binding Free Energies of Organic Solvent and Substrate. ACS Catalysis, 2016, 6, 6350-6361.	11.2	45
87	Characterization of the Chemoenzymatic Synthesis of N-Acetyl-D-neuraminic Acid (Neu5Ac). Biotechnology Progress, 1996, 12, 758-763.	2.6	44
88	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
89	Application of environmental and economic metrics to guide the development of biocatalytic processes. Green Processing and Synthesis, 2014, 3, 195-213.	3.4	44
90	Engineering of Biocatalysts and Biocatalytic Processes. Topics in Catalysis, 2014, 57, 301-320.	2.8	44

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91	Identification of critical parameters in liquid enzymeâ€catalyzed biodiesel production. Biotechnology and Bioengineering, 2014, 111, 2446-2453.	3.3	44
92	Measurement of oxygen transfer from air into organic solvents. Journal of Chemical Technology and Biotechnology, 2016, 91, 832-836.	3.2	44
93	Enzyme-catalysed carbon-carbon bond formation: Large-scale production of Escherichia coli transketolase. Journal of Biotechnology, 1996, 45, 173-179.	3.8	42
94	Alkaline biocatalysis for the direct synthesis ofN-acetyl-D-neuraminic acid (Neu5Ac) fromN-acetyl-D-glucosamine (GlcNAc). , 1999, 66, 131-136.		42
95	Candida cloacae oxidation of long-chain fatty acids to dioic acids. Enzyme and Microbial Technology, 2000, 27, 205-211.	3.2	42
96	Semiquantitative Process Screening for the Biocatalytic Synthesis ofd-Xylulose-5-phosphate. Organic Process Research and Development, 2006, 10, 605-610.	2.7	42
97	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
98	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
99	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
100	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
101	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
102	Automated Determination of Oxygenâ€Dependent Enzyme Kinetics in a Tubeâ€inâ€Tube Flow Reactor. ChemCatChem, 2017, 9, 3285-3288.	3.7	41
103	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
104	Integration of biocatalytic conversions into chemical syntheses. Journal of Chemical Technology and Biotechnology, 2007, 82, 1063-1066.	3.2	40
105	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
106	Characterization of a continuous agitated cell reactor for oxygen dependent biocatalysis. Biotechnology and Bioengineering, 2017, 114, 1222-1230.	3.3	40
107	Choice of biocatalyst form for scalable processes. Biochemical Society Transactions, 2006, 34, 301.	3.4	38
108	Process limitations in a whole-cell catalysed oxidation: Sensitivity analysis. Chemical Engineering Science, 2006, 61, 6646-6652.	3.8	38

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109	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
110	Chemoâ€enzymatic epoxidationâ€“process options for improving biocatalytic productivity. Biotechnology Progress, 2011, 27, 67-76.	2.6	36
111	Immobilization of <i>Escherichia coli</i> containing Ï‰â€transaminase activity in LentiKatsÂ®. Biotechnology Progress, 2012, 28, 693-698.	2.6	36
112	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
113	Integrated ionic liquid and process design involving azeotropic separation processes. Chemical Engineering Science, 2019, 203, 402-414.	3.8	36
114	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
115	A Prospective Life Cycle Assessment (LCA) of Monomer Synthesis: Comparison of Biocatalytic and Oxidative Chemistry. ChemSusChem, 2019, 12, 1349-1360.	6.8	33
116	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
117	A two-stage enzymatic ethanol-based biodiesel production in a packed bed reactor. Journal of Biotechnology, 2012, 162, 407-414.	3.8	32
118	Towards the sustainable production of bulk-chemicals using biotechnology. New Biotechnology, 2020, 59, 59-64.	4.4	32
119	A new approach to bioconversion reaction kinetic parameter identification. AICHE Journal, 2008, 54, 2155-2163.	3.6	31
120	Prediction of properties of new halogenated olefins using two group contribution approaches. Fluid Phase Equilibria, 2017, 433, 79-96.	2.5	31
121	An alternative bioreactor concept for application of an isolated oxidoreductase for asymmetric ketone reduction. Tetrahedron, 2004, 60, 781-788.	1.9	30
122	Chemoenzymatic Combination of Glucose Oxidase with Titanium Silicaliteâ€1. ChemCatChem, 2010, 2, 943-945.	3.7	30
123	Can graphene oxide improve the performance of biocatalytic membrane?. Chemical Engineering Journal, 2019, 359, 982-993.	12.7	30
124	Gas Solubility in Ionic Liquids: UNIFAC-IL Model Extension. Industrial & Engineering Chemistry Research, 2020, 59, 16805-16821.	3.7	30
125	Targeted modification of polyamide nanofiltration membrane for efficient separation of monosaccharides and monovalent salt. Journal of Membrane Science, 2021, 628, 119250.	8.2	30
126	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

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127	Integrating protein engineering with process design for biocatalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170062.	3.4	29
128	Immobilised transketolase for carbonâ€“carbon bond synthesis: biocatalyst stability. Journal of Molecular Catalysis B: Enzymatic, 1999, 7, 223-231.	1.8	28
129	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
130	Application of modeling and simulation tools for the evaluation of biocatalytic processes: A future perspective. Biotechnology Progress, 2009, 25, 1529-1538.	2.6	28
131	Mechanistic modeling of biodiesel production using a liquid lipase formulation. Biotechnology Progress, 2014, 30, 1277-1290.	2.6	28
132	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
133	Systematic Optimization-Based Integrated Chemical Productâ€“Process Design Framework. Industrial & Engineering Chemistry Research, 2018, 57, 677-688.	3.7	28
134	The Effect of Dissolved Oxygen on Kinetics during Continuous Biocatalytic Oxidations. Organic Process Research and Development, 2020, 24, 2055-2063.	2.7	28
135	Process design for the oxidation of fluorobenzene to fluorocatechol by Pseudomonas putida. Journal of Biotechnology, 1997, 58, 167-175.	3.8	27
136	Modelling and optimisation of a transketolase-mediated carbonâ€“carbon bond formation reaction. Chemical Engineering Science, 2007, 62, 3178-3184.	3.8	27
137	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
138	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
139	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
140	Enzymatic isomerization of glucose and xylose in ionic liquids. Catalysis Science and Technology, 2012, 2, 291-295.	4.1	25
141	Computer-aided design of ionic liquids for hybrid process schemes. Computers and Chemical Engineering, 2019, 130, 106556.	3.8	25
142	Boron based separations for in situ recovery of L-erythrulose from transketolase-catalyzed condensation. Biotechnology and Bioengineering, 1997, 56, 345-351.	3.3	24
143	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
144	Enzymatically Assisted CO2 Removal from Flue-gas. Energy Procedia, 2014, 63, 624-632.	1.8	23

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145	Enzymatic network for production of ether amines from alcohols. Biotechnology and Bioengineering, 2016, 113, 1853-1861.	3.3	23
146	Reaction Engineering for the Industrial Implementation of Biocatalysis. Topics in Catalysis, 2019, 62, 1202-1207.	2.8	23
147	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
148	A Rapid Selection Procedure for Simple Commercial Implementation of Ï‰-Transaminase Reactions. Organic Process Research and Development, 2016, 20, 602-608.	2.7	22
149	Development of in situ product removal strategies in biocatalysis applying scaledâ€down unit operations. Biotechnology and Bioengineering, 2017, 114, 600-609.	3.3	22
150	Surface modification of polysulfone membranes applied for a membrane reactor with immobilized alcohol dehydrogenase. Materials Today Communications, 2018, 14, 160-168.	1.9	22
151	Bubble Column Enables Higher Reaction Rate for Deracemization of (<i>R,S</i>)â€1â€Phenylethanol with Coupled Alcohol Dehydrogenase/NADH Oxidase System. Advanced Synthesis and Catalysis, 2019, 361, 2574-2581.	4.3	22
152	Combining technology with liquidâ€formulated lipases for inâ€spec biodiesel production. Biotechnology and Applied Biochemistry, 2022, 69, 7-19.	3.1	22
153	A group contribution-based prediction method for the electrical conductivity of ionic liquids. Fluid Phase Equilibria, 2020, 509, 112462.	2.5	22
154	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
155	Integrated Process Design and Control of Reactive Distillation Processes. IFAC-PapersOnLine, 2015, 48, 1120-1125.	0.9	21
156	Sustainable solutions by integrating process synthesis-intensification. Computers and Chemical Engineering, 2019, 126, 499-519.	3.8	21
157	Process Engineering of Two-Liquid Phase Biocatalysis. Progress in Biotechnology, 1992, 8, 147-154.	0.2	21
158	Membrane Separation for Downstream Processing of Aqueous-Organic Bioconversions. Biotechnology Progress, 1997, 13, 276-283.	2.6	20
159	Measurement of strain-dependent toxicity in the indene bioconversion using multiparameter flow cytometry. Biotechnology and Bioengineering, 2003, 81, 405-420.	3.3	20
160	Economic Considerations for Selecting an Amine Donor in Biocatalytic Transamination. Organic Process Research and Development, 2015, 19, 652-660.	2.7	20
161	Amine donor and acceptor influence on the thermodynamics of Ï‰-transaminase reactions. Tetrahedron: Asymmetry, 2015, 26, 567-570.	1.8	20
162	Effect of Water Clustering on the Activity of Candida antarctica Lipase B in Organic Medium. Catalysts, 2017, 7, 227.	3.5	20

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163	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
164	A useful assay for transketolase in asymmetric syntheses. Biotechnology Letters, 1996, 10, 167-172.	0.5	19
165	Topology optimization for biocatalytic microreactor configurations. Computer Aided Chemical Engineering, 2015, , 1463-1468.	0.5	19
166	Scaleâ€up and intensification of (<i>S</i>)â€1â€(2â€chlorophenyl)ethanol bioproduction: Economic evaluation of whole cellâ€catalyzed reduction of <i>o</i>â€Chloroacetophenone. Biotechnology and Bioengineering, 2013, 110, 2311-2315.	3.3	18
167	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
168	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
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	Development of continuous pharmaceutical production processes supported by process systems engineering methods and tools. Future Medicinal Chemistry, 2012, 4, 1371-1374.	2.3	16
171	Tools for characterizing the wholeâ€cell bioâ€oxidation of alkanes at microscale. Biotechnology and Bioengineering, 2012, 109, 2179-2189.	3.3	16
172	Reaction Equilibrium of the Ï‰-Transamination of (<i>S</i>)-Phenylethylamine: Experiments and ePC-SAFT Modeling. Organic Process Research and Development, 2017, 21, 976-986.	2.7	16
173	A Practical and Fast Method To Predict the Thermodynamic Preference of Ï‰â€Transaminaseâ€Based Transformations. ChemCatChem, 2015, 7, 2594-2597.	3.7	15
174	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
175	Scoping Biocatalyst Performance Using Reaction Trajectory Analysis. Organic Process Research and Development, 2018, 22, 1101-1114.	2.7	15
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