John M Woodley

List of Publications by Year
in descending order

309 papers	14,300 citations	22548 61 h-index	31191 106 g-index
330 all docs	330 docs citations	330 times ranked	11294 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.	1.4	22
2	Modelling study on phase equilibria behavior of ionic liquid-based aqueous biphasic systems. Chemical Engineering Science, 2022, 247, 116904.	1.9	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.	2.0	6
4	Ensuring the Sustainability of Biocatalysis. ChemSusChem, 2022, 15, .	3.6	8
5	Mass-based biocatalyst metrics to guide protein engineering and bioprocess development. Nature Catalysis, 2022, 5, 2-4.	16.1	15
6	Integrating protein engineering into biocatalytic process scale-up. Trends in Chemistry, 2022, 4, 371-373.	4.4	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.	1.3	4
8	In Situ Cofactor Regeneration Using NAD(P)H Oxidase: Enzyme Stability in a Bubble Column. ChemCatChem, 2022, 14, .	1.8	4
9	New Horizons for Biocatalytic Science. Frontiers in Catalysis, 2022, 2, .	1.8	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.	18.7	183
11	Biocatalysis for future sustainable manufacturing. Biochemist, 2022, 44, 6-8.	0.2	3
12	Computer-Aided Multifunctional Ionic Liquid Design for the Electrolyte in LTO Rechargeable Batteries. Journal of Physical Chemistry C, 2022, 126, 11498-11509.	1.5	3
13	Confining the motion of enzymes in nanofiltration membrane for efficient and stable removal of micropollutants. Chemical Engineering Journal, 2021, 421, 127870.	6.6	11
14	Sparged but not stirred: Rapid, ADH-NADH oxidase catalyzed deracemization of alcohols in a bubble column. Chemical Engineering Journal, 2021, 417, 127909.	6.6	12
15	Sustainable bio-succinic acid production: superstructure optimization, techno-economic, and lifecycle assessment. Energy and Environmental Science, 2021, 14, 3542-3558.	15.6	65
16	Monolithic flow reactor for enzymatic oxidations. Journal of Chemical Technology and Biotechnology, 2021, 96, 2488-2495.	1.6	5
17	Targeted modification of polyamide nanofiltration membrane for efficient separation of monosaccharides and monovalent salt. Journal of Membrane Science, 2021, 628, 119250.	4.1	30
18	Ionic liquidâ€based in situ product removal design exemplified for an acetoneâ€“butanolâ€“ethanol fermentation. Biotechnology Progress, 2021, 37, e3183.	1.3	10

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19	Toward scalable biocatalytic conversion of 5-hydroxymethylfurfural by galactose oxidase using coordinated reaction and enzyme engineering. Nature Communications, 2021, 12, 4946.	5.8	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.	0.6	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.	4.1	15
23	New frontiers in biocatalysis for sustainable synthesis. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 22-26.	3.2	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.	3.2	20
25	A multi-layered view of chemical and biochemical engineering. Chemical Engineering Research and Design, 2020, 155, A133-A145.	2.7	58
26	Improved Alkyl Glycoside Synthesis by transâ€Glycosylation through Tailored Microenvironments of Immobilized Î²â€Glucosidase. ChemPlusChem, 2020, 85, 137-141.	1.3	9
27	Parameters necessary to define an immobilized enzyme preparation. Process Biochemistry, 2020, 90, 66-80.	1.8	306
28	Towards the sustainable production of bulk-chemicals using biotechnology. New Biotechnology, 2020, 59, 59-64.	2.4	32
29	Editorial: â€œHow chemistry flowsâ€• Current Opinion in Green and Sustainable Chemistry, 2020, 25, 100389.	3.2	0
30	Gas Solubility in Ionic Liquids: UNIFAC-IL Model Extension. Industrial & Engineering Chemistry Research, 2020, 59, 16805-16821.	1.8	30
31	A process synthesis-intensification method for generation of novel and intensified solutions. Chemical Engineering and Processing: Process Intensification, 2020, 156, 108103.	1.8	11
32	From molasses to syrup: Engineering ultrafiltration membrane surface to improve invertase reusability. Journal of Membrane Science, 2020, 610, 118287.	4.1	10
33	An Experimental Study on Improved Production Performance by Depressurization Combined with CO₂-Enriched Air Injection. Energy & Fuels, 2020, 34, 7329-7339.	2.5	15
34	Process Analysis of Shea Butter Solvent Fractionation Using a Generic Systematic Approach. Industrial & Engineering Chemistry Research, 2020, 59, 9152-9164.	1.8	8
35	On the thermodynamics of biocatalytic reactions with application of group-contribution correlation and prediction. Fluid Phase Equilibria, 2020, 518, 112623.	1.4	2
36	The Effect of Dissolved Oxygen on Kinetics during Continuous Biocatalytic Oxidations. Organic Process Research and Development, 2020, 24, 2055-2063.	1.3	28

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37	High-level heterologous expression of active Chaetomium thermophilum FDH in Pichia pastoris. Enzyme and Microbial Technology, 2020, 137, 109552.	1.6	11
38	Advances in biological conversion technologies: new opportunities for reaction engineering. Reaction Chemistry and Engineering, 2020, 5, 632-640.	1.9	15
39	A group contribution-based prediction method for the electrical conductivity of ionic liquids. Fluid Phase Equilibria, 2020, 509, 112462.	1.4	22
40	Ionic-Liquid-Based Bioisoprene Recovery Process Design. Industrial & Engineering Chemistry Research, 2020, 59, 7355-7366.	1.8	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.	2.0	12
42	Process model validation and analysis for intensification of an industrial scale process. Computer Aided Chemical Engineering, 2019, , 955-960.	0.3	1
43	Use of image analysis to understand enzyme stability in an aerated stirred reactor. Biotechnology Progress, 2019, 35, e2878.	1.3	7
44	Considerations when Measuring Biocatalyst Performance. Molecules, 2019, 24, 3573.	1.7	48
45	Computer-aided design of ionic liquids for hybrid process schemes. Computers and Chemical Engineering, 2019, 130, 106556.	2.0	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.	2.3	18
47	Uncertainty in the prediction of the thermophysical behavior of new halogenated working fluids. Fluid Phase Equilibria, 2019, 485, 220-233.	1.4	7
48	A Prospective Life Cycle Assessment (LCA) of Monomer Synthesis: Comparison of Biocatalytic and Oxidative Chemistry. ChemSusChem, 2019, 12, 1349-1360.	3.6	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.	0.6	15
50	Sustainable solutions by integrating process synthesis-intensification. Computers and Chemical Engineering, 2019, 126, 499-519.	2.0	21
51	Accelerating the implementation of biocatalysis in industry. Applied Microbiology and Biotechnology, 2019, 103, 4733-4739.	1.7	112
52	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals. Catalysts, 2019, 9, 262.	1.6	68
53	Reaction Engineering for the Industrial Implementation of Biocatalysis. Topics in Catalysis, 2019, 62, 1202-1207.	1.3	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.	2.1	22

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55	Integrated ionic liquid and process design involving azeotropic separation processes. Chemical Engineering Science, 2019, 203, 402-414.	1.9	36
56	The Potential of Biogas; the Solution to Energy Storage. ChemSusChem, 2019, 12, 2147-2153.	3.6	52
57	Group Contribution Based Estimation Method for Properties of Ionic Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 4277-4292.	1.8	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.	6.6	30
60	Integrating protein engineering with process design for biocatalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170062.	1.6	29
61	Systematic Optimization-Based Integrated Chemical Productâ€“Process Design Framework. Industrial & Engineering Chemistry Research, 2018, 57, 677-688.	1.8	28
62	Surface modification of polysulfone membranes applied for a membrane reactor with immobilized alcohol dehydrogenase. Materials Today Communications, 2018, 14, 160-168.	0.9	22
63	Systematic identification method for data analysis and phase equilibria modelling for lipids systems. Journal of Chemical Thermodynamics, 2018, 121, 153-169.	1.0	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.	2.0	12
65	Online Measurement of Oxygenâ€Dependent Enzyme Reaction Kinetics. ChemBioChem, 2018, 19, 106-113.	1.3	10
66	Role of Biocatalysis in Sustainable Chemistry. Chemical Reviews, 2018, 118, 801-838.	23.0	1,175
67	Experimental and computational evaluation of area selectively immobilized horseradish peroxidase in a microfluidic device. Chemical Engineering Journal, 2018, 332, 16-23.	6.6	13
68	Mussel-inspired co-deposition to enhance bisphenol A removal in a bifacial enzymatic membrane reactor. Chemical Engineering Journal, 2018, 336, 315-324.	6.6	53
69	Sustainable and Innovative Solutions through an Integrated Systematic Framework. Computer Aided Chemical Engineering, 2018, , 1165-1170.	0.3	0
70	Integrated Ionic Liquid and Process Design involving Hybrid Separation Schemes. Computer Aided Chemical Engineering, 2018, 44, 1045-1050.	0.3	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.	1.3	10
72	Scoping Biocatalyst Performance Using Reaction Trajectory Analysis. Organic Process Research and Development, 2018, 22, 1101-1114.	1.3	15

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73	Perspective on PSE in pharmaceutical process development and innovation. Computer Aided Chemical Engineering, 2018, , 597-656.	0.3	11
74	Design and Analysis of Edible Oil Processes Containing Lipids. Computer Aided Chemical Engineering, 2018, 43, 737-742.	0.3	1
75	Integrated Solvent-Membrane and Process Design Method for Hybrid Reaction-Separation Schemes. Computer Aided Chemical Engineering, 2018, 43, 851-856.	0.3	3
76	A Multi-stage and Multi-level Computer Aided Framework for Sustainable Process Intensification. Computer Aided Chemical Engineering, 2018, , 875-880.	0.3	4
77	Fermentative Alcohol Production. Green Energy and Technology, 2018, , 319-357.	0.4	0
78	Innovative process development and production concepts for small-molecule API manufacturing. Computer Aided Chemical Engineering, 2018, , 67-84.	0.3	3
79	Screening of organic solvents for bioprocesses using aqueous-organic two-phase systems. Biotechnology Advances, 2018, 36, 1801-1814.	6.0	67
80	Bioprocess intensification for the effective production of chemical products. Computers and Chemical Engineering, 2017, 105, 297-307.	2.0	56
81	A generic methodology for processing route synthesis and design based on superstructure optimization. Computers and Chemical Engineering, 2017, 106, 892-910.	2.0	109
82	Characterization of a continuous agitated cell reactor for oxygen dependent biocatalysis. Biotechnology and Bioengineering, 2017, 114, 1222-1230.	1.7	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.	1.3	16
84	Shape optimization as a tool to design biocatalytic microreactors. Chemical Engineering Journal, 2017, 322, 215-223.	6.6	14
85	Model-based design and analysis of glucose isomerization process operation. Computers and Chemical Engineering, 2017, 98, 128-142.	2.0	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.	1.8	5
92	Development of a thiolâ€ene based screening platform for enzyme immobilization demonstrated using horseradish peroxidase. Biotechnology Progress, 2017, 33, 1267-1277.	1.3	9
93	Integrated working fluid-thermodynamic cycle design of organic Rankine cycle power systems for waste heat recovery. Applied Energy, 2017, 203, 442-453.	5.1	46
94	Automated Determination of Oxygenâ€Dependent Enzyme Kinetics in a Tubeâ€inâ€Tube Flow Reactor. ChemCatChem, 2017, 9, 3285-3288.	1.8	41
95	Prediction of properties of new halogenated olefins using two group contribution approaches. Fluid Phase Equilibria, 2017, 433, 79-96.	1.4	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.	6.6	41
98	Development of in situ product removal strategies in biocatalysis applying scaledâ€down unit operations. Biotechnology and Bioengineering, 2017, 114, 600-609.	1.7	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.	1.6	11
100	Effect of Water Clustering on the Activity of Candida antarctica Lipase B in Organic Medium. Catalysts, 2017, 7, 227.	1.6	20
101	A Reaction Database for Small Molecule Pharmaceutical Processes Integrated with Process Information. Processes, 2017, 5, 58.	1.3	11
102	Location-dependent optimal biorefinery synthesis. Computer Aided Chemical Engineering, 2017, , 907-912.	0.3	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.	0.3	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.	0.3	6
105	Computer Aided Synthesis of Innovative Processes: Renewable Adipic Acid Production. Computer Aided Chemical Engineering, 2017, 40, 709-714.	0.3	0
106	Separation and recovery of intracellular beta-carotene using a process synthesis framework. Computer Aided Chemical Engineering, 2017, 40, 2851-2856.	0.3	1
107	A Systematic Identification Method for Thermodynamic Property Modelling. Computer Aided Chemical Engineering, 2017, 40, 205-210.	0.3	0
108	Computational chemical product design problems under property uncertainties. Computer Aided Chemical Engineering, 2017, , 973-978.	0.3	2

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109	Scaleâ€up of industrial biodiesel production to 40â€‰m³ using a liquid lipase formulation. Biotechnology and Bioengineering, 2016, 113, 1719-1728.	1.7	46
110	A microfluidic toolbox for the development of in-situ product removal strategies in biocatalysis. Journal of Flow Chemistry, 2016, 6, 18-26.	1.2	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.	5.5	45
114	Measurement of oxygen transfer from air into organic solvents. Journal of Chemical Technology and Biotechnology, 2016, 91, 832-836.	1.6	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.	1.8	22
116	Bioinspired Multifunctional Membrane for Aquatic Micropollutants Removal. ACS Applied Materials & Interfaces, 2016, 8, 30511-30522.	4.0	81
117	Enzymatic network for production of ether amines from alcohols. Biotechnology and Bioengineering, 2016, 113, 1853-1861.	1.7	23
118	Enzymatic pretreatment of lowâ€grade oils for biodiesel production. Biotechnology and Bioengineering, 2016, 113, 754-760.	1.7	14
119	A Rapid Selection Procedure for Simple Commercial Implementation of ï‰-Transaminase Reactions. Organic Process Research and Development, 2016, 20, 602-608.	1.3	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.	1.6	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.	1.7	27
122	Model-Based Analysis and Efficient Operation of a Glucose Isomerization Reactor Plant. Computer Aided Chemical Engineering, 2015, 37, 563-568.	0.3	1
123	A Practical and Fast Method To Predict the Thermodynamic Preference of ï‰â€Transaminaseâ€Based Transformations. ChemCatChem, 2015, 7, 2594-2597.	1.8	15
124	Application of Enzyme Coupling Reactions to Shift Thermodynamically Limited Biocatalytic Reactions. ChemCatChem, 2015, 7, 3094-3105.	1.8	67
125	Thermodynamic Calculations for Systems Biocatalysis. Computer Aided Chemical Engineering, 2015, 37, 233-238.	0.3	0
126	Topology optimization for biocatalytic microreactor configurations. Computer Aided Chemical Engineering, 2015, , 1463-1468.	0.3	19

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127	Oxygen transfer rates and requirements in oxidative biocatalysis. Computer Aided Chemical Engineering, 2015, 37, 2111-2116.	0.3	6
128	Economic Considerations for Selecting an Amine Donor in Biocatalytic Transamination. Organic Process Research and Development, 2015, 19, 652-660.	1.3	20
129	Sustainable process synthesisâ€“intensification. Computers and Chemical Engineering, 2015, 81, 218-244.	2.0	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.	2.1	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.	0.8	15
132	Guidelines for development and implementation of biocatalytic P450 processes. Applied Microbiology and Biotechnology, 2015, 99, 2465-2483.	1.7	83
133	From Fed-batch to Continuous Enzymatic Biodiesel Production. Computer Aided Chemical Engineering, 2015, , 1337-1342.	0.3	3
134	Process Alternatives for Second Generation Ethanol Production from Sugarcane Bagasse. Computer Aided Chemical Engineering, 2015, , 1349-1354.	0.3	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.	1.9	28
138	Microscale technology and biocatalytic processes: opportunities and challenges for synthesis. Trends in Biotechnology, 2015, 33, 302-314.	4.9	167
139	Synthesis of 5-hydroxymethylfurfural (HMF) by acid catalyzed dehydration of glucoseâ€“fructose mixtures. Chemical Engineering Journal, 2015, 273, 455-464.	6.6	114
140	Integrated Process Design and Control of Reactive Distillation Processes. IFAC-PapersOnLine, 2015, 48, 1120-1125.	0.5	21
141	Process Requirements of Galactose Oxidase Catalyzed Oxidation of Alcohols. Organic Process Research and Development, 2015, 19, 1580-1589.	1.3	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.	1.0	5
143	Rules for biocatalyst and reaction engineering to implement effective, NAD(P)H-dependent, whole cell bioreductions. Biotechnology Advances, 2015, 33, 1641-1652.	6.0	63
144	Realâ€time model based process monitoring of enzymatic biodiesel production. Biotechnology Progress, 2015, 31, 585-595.	1.3	5

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145	Local Organizing Committee (Technical University of Denmark, Denmark). Computer Aided Chemical Engineering, 2015, 37, xxv.	0.3	0
146	Sustainable Process Synthesis-Intensification. Computer Aided Chemical Engineering, 2014, , 255-260.	0.3	10
147	Introducing an Inâ€...Situ Capping Strategy in Systems Biocatalysis To Access 6â€Aminohexanoic acid. Angewandte Chemie - International Edition, 2014, 53, 14153-14157.	7.2	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.	1.8	49
149	Application of environmental and economic metrics to guide the development of biocatalytic processes. Green Processing and Synthesis, 2014, 3, 195-213.	1.3	44
150	The Virtual Product-Process Design Laboratory for Structured Chemical Product Design and Analysis. Computer Aided Chemical Engineering, 2014, , 61-66.	0.3	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.	0.5	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.	1.7	42
153	Engineering of Biocatalysts and Biocatalytic Processes. Topics in Catalysis, 2014, 57, 301-320.	1.3	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, .	1.3	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.	1.3	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.	2.5	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.	2.0	64
161	Identification of critical parameters in liquid enzymeâ€catalyzed biodiesel production. Biotechnology and Bioengineering, 2014, 111, 2446-2453.	1.7	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

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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.	1.6	54
165	Achieving More Sustainable Designs through a Process Synthesis-Intensification Framework. Computer Aided Chemical Engineering, 2014, , 31-36.	0.3	3
166	A future perspective on the role of industrial biotechnology for chemicals production. Chemical Engineering Research and Design, 2013, 91, 2029-2036.	2.7	46
167	Reaction Engineering of Biocatalytic Enantioselective Reduction: A Case Study for Aliphatic Ketones. Organic Process Research and Development, 2013, 17, 1027-1035.	1.3	11
168	Advances in the Process Development of Biocatalytic Processes. Organic Process Research and Development, 2013, 17, 1233-1238.	1.3	70
169	Microreactors and CFD as Tools for Biocatalysis Reactor Design: A case study. Chemical Engineering and Technology, 2013, 36, 1017-1026.	0.9	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.	2.2	90
171	Systematic substrate adoption methodology (SAM) for future flexible, generic pharmaceutical production processes. Computers and Chemical Engineering, 2013, 58, 344-368.	2.0	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.	1.7	18
173	Protein engineering of enzymes for process applications. Current Opinion in Chemical Biology, 2013, 17, 310-316.	2.8	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.	1.8	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.	0.3	6
178	A two-stage enzymatic ethanol-based biodiesel production in a packed bed reactor. Journal of Biotechnology, 2012, 162, 407-414.	1.9	32
179	Enzymatic isomerization of glucose and xylose in ionic liquids. Catalysis Science and Technology, 2012, 2, 291-295.	2.1	25
180	Development of continuous pharmaceutical production processes supported by process systems engineering methods and tools. Future Medicinal Chemistry, 2012, 4, 1371-1374.	1.1	16

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181	A perspective on PSE in pharmaceutical process development and innovation. Computers and Chemical Engineering, 2012, 42, 15-29.	2.0	120
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