## Andreas Liese

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of immobilized enzymes for industrial applications. Chemical Society Reviews, 2013, 42, 6236.	38.1	555
2	Biocatalytic ketone reduction—a powerful tool for the production of chiral alcohols—part I: processes with isolated enzymes. Applied Microbiology and Biotechnology, 2007, 76, 237-248.	3.6	301
3	Deep Eutectic Solvents as Efficient Solvents in Biocatalysis. Trends in Biotechnology, 2019, 37, 943-959.	9.3	262
4	Biocatalytic ketone reduction—a powerful tool for the production of chiral alcohols—part II: whole-cell reductions. Applied Microbiology and Biotechnology, 2007, 76, 249-255.	3.6	207
5	An Enzyme Cascade Synthesis of ε aprolactone and its Oligomers. Angewandte Chemie - International Edition, 2015, 54, 2784-2787.	13.8	175
6	Benzoylformate Decarboxylase fromPseudomonas putida as Stable Catalyst for the Synthesis of Chiral 2-Hydroxy Ketones. Chemistry - A European Journal, 2000, 6, 1483-1495.	3.3	159
7	Use of an ionic liquid in a two-phase system to improve an alcohol dehydrogenase catalysed reductionElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b4/b401065e/. Chemical Communications, 2004, , 1084.	4.1	138
8	Industrial Biocatalysis:Â Past, Present, and Future. Organic Process Research and Development, 2000, 4, 286-290.	2.7	128
9	Production of fine chemicals using biocatalysis. Current Opinion in Biotechnology, 1999, 10, 595-603.	6.6	123
10	Is log P a Convenient Criterion to Guide the Choice of Solvents for Biphasic Enzymatic Reactions?. Angewandte Chemie - International Edition, 2003, 42, 2993-2996.	13.8	115
11	Biotechnological applications of hydrogenases. Current Opinion in Biotechnology, 2004, 15, 343-348.	6.6	108
12	Structure-Based Design, Synthesis, and Biological Evaluation of Irreversible Human Rhinovirus 3C Protease Inhibitors. 8. Pharmacological Optimization of Orally Bioavailable 2-Pyridone-Containing Peptidomimetics. Journal of Medicinal Chemistry, 2003, 46, 4572-4585.	6.4	105
13	Reactor Concept for Lipase-Catalyzed Solvent-Free Conversion of Highly Viscous Reactants Forming Two-Phase Systems. Organic Process Research and Development, 2008, 12, 618-625.	2.7	103
14	Continuous Application of Chemzymes in a Membrane Reactor: Asymmetric Transfer Hydrogenation of Acetophenone. Advanced Synthesis and Catalysis, 2001, 343, 711-720.	4.3	99
15	Enzymatic resolution of 1-phenyl-1,2-ethanediol by enantioselective oxidation: Overcoming product inhibition by continuous extraction. Biotechnology and Bioengineering, 2000, 51, 544-550.	3.3	91
16	Kinetic resolution of chiral amines with ?-transaminase using an enzyme-membrane reactor. Biotechnology and Bioengineering, 2001, 73, 179-187.	3.3	86
17	Practical applications of hydrogenase I from Pyrococcus furiosus for NADPH generation and regeneration. Journal of Molecular Catalysis B: Enzymatic, 2003, 24-25, 39-52.	1.8	81
18	A novel reactor concept for the enzymatic reduction of poorly soluble ketones. Journal of Molecular Catalysis B: Enzymatic, 1998, 4, 91-99.	1.8	79

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19	Coupled chemo(enzymatic) reactions in continuous flow. Beilstein Journal of Organic Chemistry, 2011, 7, 1449-1467.	2.2	78
20	First asymmetric electroenzymatic oxidation catalyzed by a peroxidase. Electrochemistry Communications, 2004, 6, 583-587.	4.7	73
21	The Metagenome-Derived Enzymes LipS and LipT Increase the Diversity of Known Lipases. PLoS ONE, 2012, 7, e47665.	2.5	72
22	Practical application of different enzymes immobilized on sepabeads. Bioprocess and Biosystems Engineering, 2008, 31, 163-171.	3.4	71
23	In situ NAD+ regeneration using 2,2′-azinobis(3-ethylbenzothiazoline-6-sulfonate) as an electron transfer mediator. Journal of Electroanalytical Chemistry, 2003, 541, 109-115.	3.8	69
24	Lipaseâ€catalyzed synthesis of glucoseâ€6â€ <i>O</i> â€hexanoate in deep eutectic solvents. European Journal of Lipid Science and Technology, 2015, 117, 161-166.	1.5	68
25	Overcoming the thermodynamic limitation in asymmetric hydrogen transfer reactions catalyzed by whole cells. Biotechnology and Bioengineering, 2006, 95, 192-198.	3.3	63
26	Enzymatic synthesis of all stereoisomers of 1-phenylpropane-1,2-diol. Tetrahedron: Asymmetry, 2002, 13, 1069-1072.	1.8	62
27	Preparative enantioselective synthesis of benzoins and (R)-2-hydroxy-1-phenylpropanone using benzaldehyde lyase. Journal of Molecular Catalysis B: Enzymatic, 2006, 38, 43-47.	1.8	57
28	Continuous asymmetric ketone reduction processes with recombinant Escherichia coli. Journal of Biotechnology, 2007, 132, 438-444.	3.8	57
29	Synthesis of (-)-menthol fatty acid esters in and from (-)-menthol and fatty acids – novel concept for lipase catalyzed esterification based on eutectic solvents. Molecular Catalysis, 2018, 458, 67-72.	2.0	57
30	Process development for the electroenzymatic synthesis of (R)-methylphenylsulfoxide by use of a 3-dimensional electrode. Biotechnology and Bioengineering, 2007, 98, 525-534.	3.3	54
31	Characterization of a wholeâ€cell catalyst coâ€expressing glycerol dehydrogenase and glucose dehydrogenase and its application in the synthesis of <scp>L</scp> â€glyceraldehyde. Biotechnology and Bioengineering, 2010, 106, 541-552.	3.3	54
32	New Continuous Production Process for Enantiopure (2R,5R)-Hexanediol. Organic Process Research and Development, 2002, 6, 458-462.	2.7	53
33	Chemoenzymatic synthesis of the chiral side-chain of statins: application of an alcohol dehydrogenase catalysed ketone reduction on a large scale. Bioprocess and Biosystems Engineering, 2008, 31, 183-191.	3.4	53
34	Diastereoselective synthesis of optically active (2 R ,5 R )-hexanediol. Applied Microbiology and Biotechnology, 2002, 58, 595-599.	3.6	52
35	Evaluation of the Laccase from Myceliophthora thermophila as Industrial Biocatalyst for Polymerization Reactions. Macromolecules, 2008, 41, 8520-8524.	4.8	52
36	Membrane reactor development for the kinetic resolution of ethyl 2-hydroxy-4-phenylbutyrate. Enzyme and Microbial Technology, 2002, 30, 673-681.	3.2	51

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37	Highly Effective Inhibition of Biofilm Formation by the First Metagenome-Derived Al-2 Quenching Enzyme. Frontiers in Microbiology, 2016, 7, 1098.	3.5	50
38	A Fedâ€Batch Synthetic Strategy for a Threeâ€Step Enzymatic Synthesis of Polyâ€ïµâ€caprolactone. ChemCatChem, 2016, 8, 3446-3452.	3.7	50
39	Kinetic insights into ϵâ€caprolactone synthesis: Improvement of an enzymatic cascade reaction. Biotechnology and Bioengineering, 2017, 114, 1215-1221.	3.3	50
40	Reaction Engineering of Benzaldehyde Lyase fromPseudomonas fluorescensCatalyzing Enantioselective Câ^'C Bond Formation. Organic Process Research and Development, 2006, 10, 1172-1177.	2.7	49
41	Biocatalytic Access to Chiral Polyesters by an Artificial Enzyme Cascade Synthesis. ChemCatChem, 2015, 7, 3951-3955.	3.7	47
42	Chemoenzymatic-Chemical Synthesis of a (2-3)-Sialyl T Threonine Building Block and Its Application to the Synthesis of the N-Terminal Sequence of Leukemia-Associated Leukosialin (CD 43). Angewandte Chemie - International Edition, 2001, 40, 2292-2295.	13.8	44
43	Polyglycerolâ€Supported Co―and Mnâ€salen Complexes as Efficient and Recyclable Homogeneous Catalysts for the Hydrolytic Kinetic Resolution of Terminal Epoxides and Asymmetric Olefin Epoxidation. European Journal of Organic Chemistry, 2008, 2008, 2135-2141.	2.4	44
44	Biocatalytic Phosphorylations of Metabolites: Past, Present, and Future. Trends in Biotechnology, 2017, 35, 452-465.	9.3	44
45	Characterisation of a Recombinant NADPâ€Dependent Glycerol Dehydrogenase from <i>Gluconobacter oxydans</i> and its Application in the Production of <scp>L</scp> â€Glyceraldehyde. ChemBioChem, 2009, 10, 1888-1896.	2.6	41
46	Chemo-Enzymatic synthesis of the galili epitope Galα(1→3)Galβ(1→4)GlcNAc on a homogeneously soluble PEG polymer by a multi-Enzyme system. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2503-2506.	2.2	39
47	Enantioselective Cĩ£¿C Bond Ligation Using RecombinantEscherichia coli-Whole-Cell Biocatalysts. Advanced Synthesis and Catalysis, 2008, 350, 165-173.	4.3	39
48	Asymmetric reductions in aqueous media: enzymatic synthesis in cyclodextrin containing buffers. Tetrahedron: Asymmetry, 1999, 10, 1681-1687.	1.8	38
49	Scaleup of Lipase-Catalyzed Polyester Synthesis. Organic Process Research and Development, 2010, 14, 1118-1124.	2.7	38
50	Generation of Dean vortices and enhancement of oxygen transfer rates in membrane contactors for different hollow fiber geometries. Journal of Membrane Science, 2012, 423-424, 342-347.	8.2	37
51	An alternative approach towards poly-ε-caprolactone through a chemoenzymatic synthesis: combined hydrogenation, bio-oxidations and polymerization without the isolation of intermediates. Green Chemistry, 2017, 19, 1286-1290.	9.0	37
52	Development and Scaling-Up of the Fragrance Compound 4-Ethylguaiacol Synthesis via a Two-Step Chemo-Enzymatic Reaction Sequence. Organic Process Research and Development, 2017, 21, 85-93.	2.7	36
53	Biocatalytic carboxylation of phenol derivatives: kinetics and thermodynamics of the biological Kolbe–Schmitt synthesis. FEBS Journal, 2015, 282, 1334-1345.	4.7	35
54	Biocatalysis: The Outcast. ChemCatChem, 2010, 2, 103-107.	3.7	34

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55	Immobilization of benzaldehyde lyase and its application as a heterogeneous catalyst in the continuous synthesis of a chiral 2-hydroxy ketone. Tetrahedron: Asymmetry, 2004, 15, 2955-2958.	1.8	33
56	Integration of Enzymatic Catalysts in a Reactive Distillation Column with Structured Packings. Industrial & Engineering Chemistry Research, 2012, 51, 11482-11489.	3.7	33
57	Modeling of reaction kinetics for reactor selection in the case of L-erythrulose synthesis. Bioprocess and Biosystems Engineering, 2003, 25, 285-290.	3.4	32
58	Novel immobilization routes for the covalent binding of an alcohol dehydrogenase from Rhodococcus ruber DSM 44541. Tetrahedron: Asymmetry, 2008, 19, 1171-1173.	1.8	31
59	Structural and Kinetic Studies on Native Intermediates and an Intermediate Analogue in Benzoylformate Decarboxylase Reveal a Least Motion Mechanism with an Unprecedented Short-Lived Predecarboxylation Intermediate. Biochemistry, 2009, 48, 3258-3268.	2.5	31
60	Simultaneous Determination of Mono-, Di-, and Triglycerides in Multiphase Systems by Online Fourier Transform Infrared Spectroscopy. Analytical Chemistry, 2011, 83, 9321-9327.	6.5	31
61	A chemo-enzymatic route to synthesize (S)-Î <sup>3</sup> -valerolactone from levulinic acid. Applied Microbiology and Biotechnology, 2013, 97, 3865-3873.	3.6	31
62	Eine Enzymkaskade zur Synthese von ε aprolacton und dessen Oligomeren. Angewandte Chemie, 2015, 127, 2825-2828.	2.0	31
63	Asymmetric Retroâ€Henry Reaction Catalyzed by Hydroxynitrile Lyase from <i>Hevea brasiliensis</i> . ChemCatChem, 2010, 2, 981-986.	3.7	30
64	Polyglycerol-Supported Chromium-Salen as a High-Loading Dendritic Catalyst for Stereoselective Diels–Alder Reactions. Advanced Synthesis and Catalysis, 2006, 348, 1760-1771.	4.3	29
65	History of Industrial Biotransformations - Dreams and Realities. , 2006, , 1-36.		29
66	Continuous Application of Polyglycerolâ€5upported Salen in a Membrane Reactor: Asymmetric Epoxidation of 6 yanoâ€2,2â€dimethylchromene. Advanced Synthesis and Catalysis, 2008, 350, 919-925.	4.3	29
67	Kinetic investigation of a solventâ€free, chemoenzymatic reaction sequence towards enantioselective synthesis of a l²â€amino acid ester. Biotechnology and Bioengineering, 2012, 109, 1479-1489.	3.3	29
68	Biocatalyst Immobilization by Anchor Peptides on an Additively Manufacturable Material. Organic Process Research and Development, 2019, 23, 1852-1859.	2.7	28
69	Is log P a Convenient Criterion to Guide the Choice of Solvents for Biphasic Enzymatic Reactions?. Angewandte Chemie, 2003, 115, 3101-3104.	2.0	27
70	Activity and stability of Caldariomyces fumago chloroperoxidase modified by reductive alkylation, amidation and cross-linking. Enzyme and Microbial Technology, 2005, 37, 582-588.	3.2	26
71	The utilization of renewable resources in German industrial production. Biotechnology Journal, 2006, 1, 770-776.	3.5	26
72	Online Monitoring of Biotransformations in High Viscous Multiphase Systems by Means of FT-IR and Chemometrics. Analytical Chemistry, 2010, 82, 6008-6014.	6.5	26

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73	Immobilization of glucose 6-phosphate dehydrogenase in silica-based hydrogels: A comparative study. Journal of Molecular Catalysis B: Enzymatic, 2013, 85-86, 220-228.	1.8	25
74	Influence of pressure and dispersant on oil biodegradation by a newly isolated Rhodococcus strain from deep-sea sediments of the gulf of Mexico. Marine Pollution Bulletin, 2020, 150, 110683.	5.0	25
75	Membrane Aerated Hydrogenation: Enzymatic and Chemical Homogeneous Catalysis. Advanced Synthesis and Catalysis, 2003, 345, 679-683.	4.3	24
76	Arylmalonate Decarboxylase atalyzed Asymmetric Synthesis of Both Enantiomers of Optically Pure Flurbiprofen. ChemCatChem, 2016, 8, 916-921.	3.7	24
77	Synthesis of enantiopure (5R)-hydroxyhexane-2-one with immobilised whole cells of Lactobacillus kefiri. Applied Microbiology and Biotechnology, 2006, 71, 289-293.	3.6	22
78	Investigation of a green process for the polymerization of catechin. Preparative Biochemistry and Biotechnology, 2017, 47, 918-924.	1.9	22
79	Reduction of ethyl 3-oxobutanoate using non-growing baker's yeast in a continuously operated reactor with cell retention. Enzyme and Microbial Technology, 2002, 31, 665-672.	3.2	21
80	Optically Active Phospholanes as Substituents on Ferrocene and Chromium-Arene Complexes. European Journal of Inorganic Chemistry, 2004, 2004, 2235-2243.	2.0	21
81	Resolution of 1,2-Diols by Enzyme-Catalyzed Oxidation with Anodic, Mediated Cofactor Regeneration in the Extractive Membrane Reactor:Â Gaining Insight by Adaptive Simulation. Organic Process Research and Development, 2004, 8, 213-218.	2.7	21
82	Enzymatic Reactive Distillation: Kinetic Resolution of <i>rac</i> -2-Pentanol with Biocatalytic Coatings on Structured Packings. Industrial & Engineering Chemistry Research, 2015, 54, 9458-9467.	3.7	21
83	Process development for oxidations of hydrophobic compounds applying cytochrome P450 monooxygenases in-vitro. Journal of Biotechnology, 2016, 233, 143-150.	3.8	21
84	Optimization of solvent-free enzymatic esterification in eutectic substrate reaction mixture. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00333.	4.4	21
85	Enzyme Immobilization on Synthesized Nanoporous Silica Particles and their Application in a Biâ€enzymatic Reaction. ChemCatChem, 2020, 12, 2245-2252.	3.7	21
86	Cyclodextrin-assisted Glycan Chain Extension on a Protected Glycosyl Amino Acid. Tetrahedron, 2000, 56, 5865-5869.	1.9	20
87	Continuous Homogeneous Asymmetric Transfer Hydrogenation of Ketones: Lessons from Kinetics. Chemistry - A European Journal, 2006, 12, 1818-1823.	3.3	20
88	Determination of trace amounts with ATR FTIR spectroscopy and chemometrics: 5-(hydroxymethyl)furfural in honey. Talanta, 2019, 204, 1-5.	5.5	20
89	Processes: Oxireductases EC 1. , 0, , 147-263.		20
90	Influence of reaction conditions on the enantioselectivity of biocatalyzed C–C bond formations under high pressure conditions. Journal of Biotechnology, 2011, 152, 87-92.	3.8	19

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91	Development of a Continuously Operating Process for the Enantioselective Synthesis of a βâ€Amino Acid Ester <i>via</i> a Solventâ€Free Chemoenzymatic Reaction Sequence. Advanced Synthesis and Catalysis, 2013, 355, 2391-2399.	4.3	19
92	Product recovery of an enzymatically synthesized (â^')-menthol ester in a deep eutectic solvent. Bioprocess and Biosystems Engineering, 2019, 42, 1385-1389.	3.4	19
93	Process Intensification as Game Changer in Enzyme Catalysis. Frontiers in Catalysis, 2022, 2, .	3.9	19
94	Improvement of the Process Stability of Arylmalonate Decarboxylase by Immobilization for Biocatalytic Profen Synthesis. Frontiers in Microbiology, 2017, 8, 448.	3.5	18
95	Comparative investigation of fine bubble and macrobubble aeration on gas utilityÂand biotransformation productivity. Biotechnology and Bioengineering, 2021, 118, 130-141.	3.3	18
96	Microbubble enhanced mass transfer efficiency of CO <sub>2</sub> capture utilizing aqueous triethanolamine for enzymatic resorcinol carboxylation. RSC Advances, 2021, 11, 4087-4096.	3.6	18
97	Building Blocks. , 2007, 105, 133-173.		17
98	Asymmetric synthesis of chiral 2-hydroxy ketones by coupled biocatalytic alkene oxidation and CC bond formation. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 111-116.	1.8	17
99	Chemically and enzymatically catalyzed synthesis of C6-C10alkyl benzoates. European Journal of Lipid Science and Technology, 2009, 111, 194-201.	1.5	15
100	Influence of the hydrostatic pressure and pH on the asymmetric 2â€hydroxyketone formation catalyzed by <i>Pseudomonas putida</i> benzoylformate decarboxylase and variants thereof. Biotechnology and Bioengineering, 2010, 106, 18-26.	3.3	15
101	Computational biotechnology: Prediction of competitive substrate inhibition of enzymes by buffer compounds with protein–ligand docking. Journal of Biotechnology, 2012, 161, 391-401.	3.8	15
102	Influence of oil, dispersant, and pressure on microbial communities from the Gulf of Mexico. Scientific Reports, 2020, 10, 7079.	3.3	15
103	In situ production and renewal of biocatalytic coatings for use in enzymatic reactive distillation. Chemical Engineering Journal, 2016, 306, 992-1000.	12.7	14
104	Amineâ€Mediated Enzymatic Carboxylation of Phenols Using CO <sub>2</sub> as Substrate Increases Equilibrium Conversions and Reaction Rates. Biotechnology Journal, 2017, 12, 1700332.	3.5	14
105	Basics of Bioreaction Engineering. , 0, , 115-145.		14
106	Utilization of adsorption effects for the continuous reduction of NADP+with molecular hydrogen by Pyrococcus furiosus hydrogenase. Green Chemistry, 2003, 5, 697-700.	9.0	13
107	In Situ Microscopy for In-line Monitoring of the Enzymatic Hydrolysis of Cellulose. Analytical Chemistry, 2013, 85, 8121-8126.	6.5	13
108	<i>Pseudomonas aeruginosa</i> Biofilm Growth Inhibition on Medical Plastic Materials by Immobilized Esterases and Acylase. ChemBioChem, 2014, 15, 1911-1919.	2.6	13

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109	Enzymatic Oxidation of Butane to 2â€Butanol in a Bubble Column. ChemCatChem, 2020, 12, 3666-3669.	3.7	13
110	Tropical agroindustrial biowaste revalorization through integrative biorefineries—review part I: coffee and palm oil by-products. Biomass Conversion and Biorefinery, 2023, 13, 1469-1487.	4.6	13
111	Process Characterization Studies for Solvent-Free Simultaneous Epoxidation and Transesterification of Fatty Acid Methyl Esters. Organic Process Research and Development, 2016, 20, 1930-1936.	2.7	12
112	The role of phase behavior in the enzyme catalyzed synthesis of glycerol monolaurate. RSC Advances, 2016, 6, 32422-32429.	3.6	12
113	Reaction engineering of biocatalytic (S)-naproxen synthesis integrating in-line process monitoring by Raman spectroscopy. Reaction Chemistry and Engineering, 2017, 2, 531-540.	3.7	12
114	A Multi-Enzyme Cascade for the Production of High-Value Aromatic Compounds. Catalysts, 2020, 10, 1216.	3.5	12
115	Chemometric modelling for process analyzers using just a single calibration sample. Chemometrics and Intelligent Laboratory Systems, 2008, 94, 118-122.	3.5	11
116	Kinetic studies of the asymmetric Henry reaction catalyzed by hydroxynitrile lyase fromHevea brasiliensis. Biocatalysis and Biotransformation, 2010, 28, 348-356.	2.0	11
117	Evaluation of the Substrate Scope of Benzoic Acid (De)carboxylases According to Chemical and Biochemical Parameters. ChemBioChem, 2016, 17, 1845-1850.	2.6	11
118	Highlights in Biocatalysis. ChemCatChem, 2010, 2, 879-880.	3.7	10
119	In Situ Microscopy for Online Monitoring of Enzymatic Processes. Chemical Engineering and Technology, 2011, 34, 837-840.	1.5	10
120	<scp>Multiâ€enzyme</scp> cascade reaction in a miniplant <scp>twoâ€phaseâ€system</scp> : Model validation and mathematical optimization. AICHE Journal, 2021, 67, e17158.	3.6	10
121	Enzymatic resolution of an amine under solvent-free conditions with diethyl malonate as reagent for acylation. Sustainable Chemistry and Pharmacy, 2017, 5, 42-45.	3.3	9
122	Bioreaction Engineering Leading to Efficient Synthesis of Lâ€Glyceraldehydâ€3â€Phosphate. Biotechnology Journal, 2017, 12, 1600625.	3.5	9
123	Enhanced CO2 fixation in the biocatalytic carboxylation of resorcinol: Utilization of amines for amine scrubbing and in situ product precipitation. Biochemical Engineering Journal, 2021, 166, 107825.	3.6	9
124	Processes: Lyases EC 4. , 0, , 447-503.		9
125	Technical Application of Biological Principles in Asymmetric Catalysis. Advances in Biochemical Engineering/Biotechnology, 2005, 92, 197-224.	1.1	8
126	Continuous Asymmetric Hydrogenation. , 2006, , 111-124.		8

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127	Laminar Mixing in Miniature Hollowâ€Fibre Membrane Reactors by using Secondary Flows (Part 1). Chemie-Ingenieur-Technik, 2011, 83, 1066-1073.	0.8	8
128	One-pot enzymatic reaction sequence for the syntheses of d-glyceraldehyde 3-phosphate and l-glycerol 3-phosphate. Journal of Molecular Catalysis B: Enzymatic, 2016, 124, 77-82.	1.8	8
129	Countercurrently Operated Reactive Extractor with an Additively Manufactured Enzyme Carrier Structure. Organic Process Research and Development, 2020, 24, 1621-1628.	2.7	8
130	Tropical agroindustrial biowaste revalorization through integrative biorefineries—review part II: pineapple, sugarcane and banana by-products in Costa Rica. Biomass Conversion and Biorefinery, 2024, 14, 4391-4418.	4.6	8
131	Optimization of the enzymatic synthesis of O -glycan core 2 structure by use of a genetic algorithm. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1031-1034.	2.2	7
132	Fluorescence spectroscopy as a novel method for on-line analysis of biocatalytic C–C bond formations. Journal of Molecular Catalysis B: Enzymatic, 2010, 66, 124-129.	1.8	7
133	<i>In Situ</i> Separation of the Chiral Target Compound ( <i>S</i> )-2-Pentanol in Biocatalytic Reactive Distillation. Industrial & Engineering Chemistry Research, 2017, 56, 6451-6461.	3.7	7
134	Fine Bubbleâ€based CO 2 Capture Mediated by Triethanolamine Coupled to Whole Cell Biotransformation. Chemie-Ingenieur-Technik, 2019, 91, 1822-1826.	0.8	7
135	Evaluation of process integration for the intensification of a biotechnological process. Chemical Engineering and Processing: Process Intensification, 2021, 167, 108506.	3.6	7
136	Processes: Hydrolases EC 3 - EC 3.1.1.3 to EC 3.4.17.2. , 0, , 273-349.		7
137	Quantitative Analysis of Industrial Biotransformation. , 0, , 515-520.		7
138	Immobilization and characterization of benzoylformate decarboxylase from Pseudomonas putida on spherical silica carrier. Bioprocess and Biosystems Engineering, 2011, 34, 671-680.	3.4	6
139	Chemical Absorption of CO <sub>2</sub> in Helically Wound Hollow Fiber Membrane Contactors. Chemie-Ingenieur-Technik, 2013, 85, 476-483.	0.8	6
140	Online-Analyse von enzymatischen Polykondensationsreaktionen in BlasensÄ <b>¤</b> lenreaktoren mittels ATR-FTIR-Spektroskopie. Chemie-Ingenieur-Technik, 2013, 85, 1016-1022.	0.8	6
141	Mechanistic and kinetics elucidation of Mg2+/ATP molar ratio effect on glycerol kinase. Molecular Catalysis, 2018, 445, 36-42.	2.0	6
142	In Situ Microscopy for Online Monitoring of Enzyme Supports and Twoâ€Phase Systems. Chemie-Ingenieur-Technik, 2011, 83, 884-887.	0.8	5
143	Enzyme- and Metal-Catalyzed Synthesis of a New Biobased Polyester. Organic Process Research and Development, 2017, 21, 1245-1252.	2.7	5
144	In situ monitoring of the biocatalysed partial hydrolysis of cocoa butter and palm oil fraction. International Journal of Food Science and Technology, 2020, 55, 1265-1271.	2.7	5

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145	Towards bio-based plasticizers with reduced toxicity: Synthesis and performance testing of a 3-methylphthalate. Sustainable Chemistry and Pharmacy, 2020, 18, 100319.	3.3	5
146	Structureâ€Performance Guided Design of Sustainable Plasticizers from Biorenewable Feedstocks. European Journal of Organic Chemistry, 2021, 2021, 6086-6096.	2.4	5
147	Technische Chemie 2004. Nachrichten Aus Der Chemie, 2005, 53, 312-316.	0.0	4
148	Novel μ-membrane module for online determination of the free fatty acid content in the dispersed phase of oil-in-water emulsions. Analytical and Bioanalytical Chemistry, 2014, 406, 3157-3166.	3.7	4
149	FTIR based kinetic characterisation of an acid-catalysed esterification of 3-methylphthalic anhydride and 2-ethylhexanol. Analytical Methods, 2020, 12, 3137-3144.	2.7	4
150	Fermentative oxidation of butane in bubble column reactors. Biochemical Engineering Journal, 2020, 155, 107486.	3.6	4
151	Basics of Bioreaction Engineering. , 0, , 57-91.		3
152	Technische Anwendung von Enzymen: Weiße WÃ <b>s</b> che und Grüne Chemie. Chemie in Unserer Zeit, 2007, 41, 324-333.	0.1	3
153	Dissolving carbon dioxide in high viscous substrates to accelerate biocatalytic reactions. Biotechnology and Bioengineering, 2011, 108, 2765-2769.	3.3	3
154	Influence of the Reactor Configuration on the Enantioselectivity of a Kinetic Resolution. Chemie-Ingenieur-Technik, 2013, 85, 826-832.	0.8	3
155	Reversibility of asymmetric catalyzed C–C bond formation by benzoylformate decarboxylase. Catalysis Science and Technology, 2015, 5, 2418-2426.	4.1	3
156	Original enzyme-catalyzed synthesis of chalcones: Utilization of hydrolase promiscuity. Journal of the Serbian Chemical Society, 2016, 81, 1231-1237.	0.8	3
157	Kinetic Examination and Simulation of GDP-β-l-fucose Synthetase Reaction Using NADPH or NADH. Biocatalysis and Biotransformation, 2004, 22, 49-56.	2.0	2
158	Synthesis of a Novel Unsymmetrical Bisoxazoline Ligand with sp² Bridging Carbon. Synlett, 2009, 2009, 2589-2592.	1.8	2
159	Strategies for reliable and improved large-scale production of Pyrococcus furiosus with integrated purification of hydrogenase I. Bioprocess and Biosystems Engineering, 2014, 37, 2475-2482.	3.4	2
160	Fatty alcohol synthesis from fatty acids at mild temperature by subsequent enzymatic esterification and metal-catalyzed hydrogenation. Organic and Biomolecular Chemistry, 2020, 18, 7862-7867.	2.8	2
161	Retrosynthetic Biocatalysis. , 0, , 63-91.		2
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