

Frank Hollmann

List of Publications by Year in descending order

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263
papers

14,817
citations

15504

65
h-index

27406

106
g-index

300
all docs

300
docs citations

300
times ranked

8824
citing authors

#	ARTICLE	IF	CITATIONS
1	Are Natural Deep Eutectic Solvents the Missing Link in Understanding Cellular Metabolism and Physiology?. <i>Plant Physiology</i> , 2011, 156, 1701-1705.	4.8	887
2	Enzyme-mediated oxidations for the chemist. <i>Green Chemistry</i> , 2011, 13, 226-265.	9.0	395
3	Biocatalytic Oxidation Reactions: A Chemist's Perspective. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9238-9261.	13.8	342
4	Enzymatic reductions for the chemist. <i>Green Chemistry</i> , 2011, 13, 2285.	9.0	332
5	Synthetic cascades are enabled by combining biocatalysts with artificial metalloenzymes. <i>Nature Chemistry</i> , 2013, 5, 93-99.	13.6	314
6	Selective aerobic oxidation reactions using a combination of photocatalytic water oxidation and enzymatic oxyfunctionalizations. <i>Nature Catalysis</i> , 2018, 1, 55-62.	34.4	272
7	Biocatalytic Redox Reactions for Organic Synthesis: Nonconventional Regeneration Methods. <i>ChemCatChem</i> , 2010, 2, 762-782.	3.7	235
8	Oxidoreductases on their way to industrial biotransformations. <i>Biotechnology Advances</i> , 2017, 35, 815-831.	11.7	205
9	Peroxygenases en route to becoming dream catalysts. What are the opportunities and challenges?. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 1-9.	6.1	198
10	[Cp ⁺ -Rh(bpy)(H ₂ O)] ²⁺ : a versatile tool for efficient and non-enzymatic regeneration of nicotinamide and flavin coenzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 167-176.	1.8	190
11	Enzyme Initiated Radical Polymerizations. <i>Polymers</i> , 2012, 4, 759-793.	4.5	185
12	The use of enzymes in the chemical industry in Europe. <i>Current Opinion in Biotechnology</i> , 2002, 13, 359-366.	6.6	175
13	How Green is Biocatalysis? To Calculate is To Know. <i>ChemCatChem</i> , 2014, 6, 930-943.	3.7	165
14	Better than Nature: Nicotinamide Biomimetics That Outperform Natural Coenzymes. <i>Journal of the American Chemical Society</i> , 2016, 138, 1033-1039.	13.7	164
15	Stereospecific Biocatalytic Epoxidation: The First Example of Direct Regeneration of a FAD-Dependent Monooxygenase for Catalysis. <i>Journal of the American Chemical Society</i> , 2003, 125, 8209-8217.	13.7	158
16	Mimicking Nature: Synthetic Nicotinamide Cofactors for C-C Bioreduction Using Enoate Reductases. <i>Organic Letters</i> , 2013, 15, 180-183.	4.6	155
17	The First Synthetic Application of a Monooxygenase Employing Indirect Electrochemical NADH Regeneration. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 169-171.	13.8	145
18	Non-enzymatic regeneration of nicotinamide and flavin cofactors for monooxygenase catalysis. <i>Trends in Biotechnology</i> , 2006, 24, 163-171.	9.3	142

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19	Photobiocatalytic chemistry of oxidoreductases using water as the electron donor. <i>Nature Communications</i> , 2014, 5, 3145.	12.8	135
20	Light-Driven Enzymatic Decarboxylation of Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13648-13651.	13.8	133
21	Hydrogen peroxide driven biocatalysis. <i>Green Chemistry</i> , 2019, 21, 3232-3249.	9.0	133
22	Peroxygenase-Catalyzed Oxyfunctionalization Reactions Promoted by the Complete Oxidation of Methanol. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 798-801.	13.8	128
23	Is Simpler Better? Synthetic Nicotinamide Cofactor Analogues for Redox Chemistry. <i>ACS Catalysis</i> , 2014, 4, 788-797.	11.2	127
24	The Oxygen Dilemma: A Severe Challenge for the Application of Monooxygenases?. <i>ChemBioChem</i> , 2016, 17, 1391-1398.	2.6	125
25	Specific Photobiocatalytic Oxyfunctionalization Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10716-10719.	13.8	124
26	Bioorganometallic chemistry: biocatalytic oxidation reactions with biomimetic NAD ⁺ /NADH co-factors and [Cp*Rh(bpy)H] ⁺ for selective organic synthesis. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4783-4790.	1.8	123
27	Recent trends and novel concepts in cofactor-dependent biotransformations. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1517-1529.	3.6	123
28	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 3116-3120.	13.7	123
29	Integrated Biocatalytic Synthesis on Gram Scale: The Highly Enantioselective Preparation of Chiral Oxiranes with Styrene Monooxygenase. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 732-737.	4.3	121
30	A Light-Driven Stereoselective Biocatalytic Oxidation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2903-2906.	13.8	121
31	Biocatalytic Reduction Reactions from a Chemist's Perspective. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5644-5665.	13.8	118
32	Specific oxyfunctionalisations catalysed by peroxygenases: opportunities, challenges and solutions. <i>Catalysis Science and Technology</i> , 2015, 5, 2038-2052.	4.1	116
33	Visible light-driven and chloroperoxidase-catalyzed oxygenation reactions. <i>Chemical Communications</i> , 2009, , 6848.	4.1	115
34	Enzyme engineering for enantioselectivity: from trial-and-error to rational design?. <i>Trends in Biotechnology</i> , 2010, 28, 46-54.	9.3	115
35	Improved esterification activity of <i>Candida rugosa</i> lipase in organic solvent by immobilization as Cross-linked enzyme aggregates (CLEAs). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 71, 85-89.	1.8	115
36	Electrochemical Regeneration of Oxidoreductases for Cell-free Biocatalytic Redox Reactions. <i>Biocatalysis and Biotransformation</i> , 2004, 22, 63-88.	2.0	109

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37	Selective Activation of C-H Bonds in a Cascade Process Combining Photochemistry and Biocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15451-15455.	13.8	108
38	Biokatalytische Oxidationsreaktionen – aus der Sicht eines Chemikers. <i>Angewandte Chemie</i> , 2018, 130, 9380-9404.	2.0	106
39	Light-Driven Biocatalytic Oxidation and Reduction Reactions: Scope and Limitations. <i>ChemBioChem</i> , 2008, 9, 565-572.	2.6	102
40	Recent developments in the use of peroxygenases – Exploring their high potential in selective oxyfunctionalisations. <i>Biotechnology Advances</i> , 2021, 51, 107615.	11.7	101
41	Recombinant Cyanobacteria for the Asymmetric Reduction of C=C Bonds Fueled by the Biocatalytic Oxidation of Water. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5582-5585.	13.8	100
42	The taming of oxygen: biocatalytic oxyfunctionalisations. <i>Chemical Communications</i> , 2014, 50, 13180-13200.	4.1	99
43	Biocatalysis making waves in organic chemistry. <i>Chemical Society Reviews</i> , 2022, 51, 594-627.	38.1	98
44	Photobiocatalytic decarboxylation for olefin synthesis. <i>Chemical Communications</i> , 2015, 51, 1918-1921.	4.1	97
45	On the nature of mutual inactivation between [Cp*Rh(bpy)(H ₂ O)] ²⁺ and enzymes – analysis and potential remedies. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 149-156.	1.8	96
46	Direct Electrochemical Regeneration of Monooxygenase Subunits for Biocatalytic Asymmetric Epoxidation. <i>Journal of the American Chemical Society</i> , 2005, 127, 6540-6541.	13.7	93
47	Efficient <i>In Situ</i> Regeneration of NADH Mimics by an Artificial Metalloenzyme. <i>ACS Catalysis</i> , 2016, 6, 3553-3557.	11.2	93
48	Immobilisation of laccase on Eupergit supports and its application for the removal of endocrine disrupting chemicals in a packed-bed reactor. <i>Biodegradation</i> , 2012, 23, 373-386.	3.0	89
49	Biocatalytic C=C Bond Reduction through Carbon Nanodot-Sensitized Regeneration of NADH Analogues. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13825-13828.	13.8	87
50	Environmentally benign solid catalysts for sustainable biodiesel production: A critical review. <i>Science of the Total Environment</i> , 2021, 768, 144856.	8.0	87
51	Photoenzymatic Reduction of C=C Double Bonds. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 3279-3286.	4.3	80
52	Directed evolution of enantioselective hybrid catalysts: a novel concept in asymmetric catalysis. <i>Tetrahedron</i> , 2007, 63, 6404-6414.	1.9	79
53	Immobilized redox mediators for electrochemical NAD(P) ⁺ regeneration. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 2251-2264.	3.6	75
54	One-pot combination of enzyme and Pd nanoparticle catalysis for the synthesis of enantiomerically pure 1,2-amino alcohols. <i>Green Chemistry</i> , 2013, 15, 3318.	9.0	75

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55	Enantioselective Oxidation of Aldehydes Catalyzed by Alcohol Dehydrogenase. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9914-9917.	13.8	74
56	Cofactor-Free, Direct Photoactivation of Enoate Reductases for the Asymmetric Reduction of C=C Bonds. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8681-8685.	13.8	74
57	Nonenzymatic Regeneration of Styrene Monooxygenase for Catalysis. <i>ACS Catalysis</i> , 2015, 5, 2961-2965.	11.2	73
58	Access to Lactone Building Blocks via Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactonization. <i>ACS Catalysis</i> , 2013, 3, 2436-2439.	11.2	71
59	Selective Synthesis of the Human Drug Metabolite 5 α -Hydroxypropranolol by an Evolved Self-Sufficient Peroxygenase. <i>ACS Catalysis</i> , 2018, 8, 4789-4799.	11.2	70
60	FADH ₂ -Dependence of Tryptophan 7-Halogenase. <i>Advanced Synthesis and Catalysis</i> , 2005, 347, 1163-1167.	4.3	69
61	Enzymatic halogenation of the phenolic monoterpenes thymol and carvacrol with chloroperoxidase. <i>Green Chemistry</i> , 2014, 16, 1104-1108.	9.0	69
62	TADH, the thermostable alcohol dehydrogenase from <i>Thermus</i> sp. ATN1: a versatile new biocatalyst for organic synthesis. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 263-273.	3.6	68
63	On the (Un)greenness of Biocatalysis: Some Challenging Figures and Some Promising Options. <i>Frontiers in Microbiology</i> , 2015, 6, 1257.	3.5	68
64	A Robust Protein Host for Anchoring Chelating Ligands and Organocatalysts. <i>ChemBioChem</i> , 2008, 9, 552-564.	2.6	67
65	A New Regeneration System for Oxidized Nicotinamide Cofactors. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1211-1216.	4.3	67
66	Formate Oxidase (FOx) from <i>Aspergillus oryzae</i> : One Catalyst Enables Diverse H ₂ O ₂ -Dependent Biocatalytic Oxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7873-7877.	13.8	67
67	A biocatalytic hydrogenation of carboxylic acids. <i>Chemical Communications</i> , 2012, 48, 12056.	4.1	65
68	A survey of synthetic nicotinamide cofactors in enzymatic processes. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4773-4778.	3.6	65
69	Carbon Nanotube-Graphitic Carbon Nitride Hybrid Films for Flavoenzyme-Catalyzed Photoelectrochemical Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1705232.	14.9	64
70	Cascading g-C ₃ N ₄ and Peroxygenases for Selective Oxyfunctionalization Reactions. <i>ACS Catalysis</i> , 2019, 9, 7409-7417.	11.2	64
71	Energising the E-factor: The E ⁺ -factor. <i>Tetrahedron</i> , 2019, 75, 1311-1314.	1.9	64
72	Biocatalysis. <i>Catalysis Letters</i> , 2015, 145, 309-345.	2.6	62

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73	Expanding the Spectrum of Light-Driven Peroxygenase Reactions. <i>ACS Catalysis</i> , 2019, 9, 890-894.	11.2	62
74	Deazaflavins as mediators in light-driven cytochrome P450 catalyzed hydroxylations. <i>Chemical Communications</i> , 2009, , 7152.	4.1	61
75	Chemoenzymatic epoxidation of alkenes with <i>Candida antarctica</i> lipase B and hydrogen peroxide in deep eutectic solvents. <i>RSC Advances</i> , 2017, 7, 12518-12523.	3.6	61
76	Whole-Cell Photoenzymatic Cascades to Synthesize Long-Chain Aliphatic Amines and Esters from Renewable Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7024-7028.	13.8	60
77	Engineering of <i>Candida antarctica</i> lipase B for hydrolysis of bulky carboxylic acid esters. <i>Journal of Biotechnology</i> , 2010, 150, 474-480.	3.8	59
78	Immobilization of laccase by encapsulation in a sol-gel matrix and its characterization and use for the removal of estrogens. <i>Biotechnology Progress</i> , 2011, 27, 1570-1579.	2.6	59
79	Selective Photooxidation Reactions using Water-Soluble Anthraquinone Photocatalysts. <i>ChemCatChem</i> , 2017, 9, 3821-3826.	3.7	59
80	In situ formation of H ₂ O ₂ for P450 peroxygenases. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5692-5696.	3.0	58
81	Combining Photo-Organic Redox and Enzyme Catalysis Facilitates Asymmetric C-H Bond Functionalization. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 80-84.	2.4	58
82	Photobiocatalytic synthesis of chiral secondary fatty alcohols from renewable unsaturated fatty acids. <i>Nature Communications</i> , 2020, 11, 2258.	12.8	58
83	Towards practical biocatalytic Baeyer-Villiger reactions: applying a thermostable enzyme in the gram-scale synthesis of optically-active lactones in a two-liquid-phase system. <i>Beilstein Journal of Organic Chemistry</i> , 2005, 1, 10.	2.2	56
84	More efficient redox biocatalysis by utilising 1,4-butanediol as a "smart cosubstrate". <i>Green Chemistry</i> , 2013, 15, 330.	9.0	56
85	A Bi-Enzymatic Convergent Cascade for Î-caprolactone Synthesis Employing 1,6-Hexanediol as a "Double-Smart Cosubstrate". <i>ChemCatChem</i> , 2015, 7, 2442-2445.	3.7	55
86	Photoelectroenzymatic Oxyfunctionalization on Flavin-Hybridized Carbon Nanotube Electrode Platform. <i>ACS Catalysis</i> , 2017, 7, 1563-1567.	11.2	55
87	Nicotinamide adenine dinucleotide as a photocatalyst. <i>Science Advances</i> , 2019, 5, eaax0501.	10.3	54
88	A Photoenzymatic System for Alcohol Oxidation. <i>ChemCatChem</i> , 2011, 3, 338-342.	3.7	53
89	Ferritin-supported palladium nanoclusters: selective catalysts for aerobic oxidations in water. <i>Chemical Communications</i> , 2012, 48, 5745.	4.1	53
90	Evaluation of the Laccase from <i>Myceliophthora thermophila</i> as Industrial Biocatalyst for Polymerization Reactions. <i>Macromolecules</i> , 2008, 41, 8520-8524.	4.8	52

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91	Chemoenzymatic Halogenation of Phenols by using the Haloperoxidase from <i>Curvularia inaequalis</i> . <i>ChemCatChem</i> , 2015, 7, 4035-4038.	3.7	52
92	Fueling biomass-degrading oxidative enzymes by light-driven water oxidation. <i>Green Chemistry</i> , 2016, 18, 5357-5366.	9.0	52
93	Piezobiocatalysis: Ultrasound-Driven Enzymatic Oxyfunctionalization of C-H Bonds. <i>ACS Catalysis</i> , 2020, 10, 5236-5242.	11.2	50
94	A biocatalytic redox isomerisation. <i>Chemical Communications</i> , 2012, 48, 6630.	4.1	49
95	Visible-light-driven photooxidation of alcohols using surface-doped graphitic carbon nitride. <i>Green Chemistry</i> , 2017, 19, 2096-2100.	9.0	49
96	Nonconventional regeneration of redox enzymes – a practical approach for organic synthesis?. <i>Chemical Communications</i> , 2018, 54, 7281-7289.	4.1	49
97	Halofunctionalization of alkenes by vanadium chloroperoxidase from <i>Curvularia inaequalis</i> . <i>Chemical Communications</i> , 2017, 53, 6207-6210.	4.1	47
98	Coupled chemoenzymatic transfer hydrogenation catalysis for enantioselective reduction and oxidation reactions. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 3512-3519.	1.8	45
99	Bioreductions Catalyzed by an Alcohol Dehydrogenase in Non-aqueous Media. <i>ChemCatChem</i> , 2014, 6, 973-976.	3.7	45
100	Measurements of Ohmic Losses of Metallic Reflectors at 140 GHz Using a 3-Mirror Resonator Technique. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2001, 22, 1695-1707.	0.6	44
101	On the inactivity of <i>Candida antarctica</i> lipase B towards strong acids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 257-261.	1.8	44
102	Photobiocatalytic alcohol oxidation using LED light sources. <i>Green Chemistry</i> , 2017, 19, 376-379.	9.0	44
103	Preparation of Enantiomerically Pure [3]Ferrocenophane-Based Chelate Bis-Phosphane Ligands and Their Use in Asymmetric Alternating Carbon Monoxide/Propene Copolymerization. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1909-1918.	2.4	43
104	Haloperoxidases as catalysts in organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9267-9274.	2.8	43
105	Synthesis of enantiomerically pure alcohols and amines via biocatalytic deracemisation methods. <i>Catalysis Science and Technology</i> , 2019, 9, 5487-5503.	4.1	43
106	Increasing the Productivity of Peroxidase-Catalyzed Oxyfunctionalization: A Case Study on the Potential of Two-Phase Systems. <i>ChemCatChem</i> , 2013, 5, 565-568.	3.7	42
107	A Biocatalytic Aza-Achmatowicz Reaction. <i>ACS Catalysis</i> , 2016, 6, 5904-5907.	11.2	42
108	One-pot Conversion of Cycloalkanes to Lactones. <i>ChemCatChem</i> , 2015, 7, 236-239.	3.7	41

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109	Photoenzymatic Production of Next Generation Biofuels from Natural Triglycerides Combining a Hydrolase and a Photodecarboxylase. <i>ChemPhotoChem</i> , 2020, 4, 39-44.	3.0	41
110	Water-Soluble Anthraquinone Photocatalysts Enable Methanol-Driven Enzymatic Halogenation and Hydroxylation Reactions. <i>ACS Catalysis</i> , 2020, 10, 8277-8284.	11.2	41
111	Bias-Free In Situ H ₂ O ₂ Generation in a Photovoltaic-Photoelectrochemical Tandem Cell for Biocatalytic Oxidation. <i>ACS Catalysis</i> , 2019, 9, 10562-10566.	11.2	40
112	Lignin as a multifunctional photocatalyst for solar-powered biocatalytic oxyfunctionalization of C-H bonds. , 2022, 1, 217-226.		40
113	Deep Eutectic Solvents Enable More Robust Chemoenzymatic Epoxidation Reactions. <i>ChemCatChem</i> , 2017, 9, 934-936.	3.7	39
114	Solvent-Free Photobiocatalytic Hydroxylation of Cyclohexane. <i>ChemCatChem</i> , 2020, 12, 4009-4013.	3.7	39
115	Electrochemical regeneration of oxidised nicotinamide cofactors in a scalable reactor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 103, 94-99.	1.8	38
116	Donor-Acceptor Distance Sampling Enhances the Performance of a Better than Nature Nicotinamide Coenzyme Biomimetics. <i>Journal of the American Chemical Society</i> , 2016, 138, 11089-11092.	13.7	38
117	Towards preparative peroxygenase-catalyzed oxyfunctionalization reactions in organic media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 347-352.	1.8	38
118	Peroxygenase-Catalysed Epoxidation of Styrene Derivatives in Neat Reaction Media. <i>ChemCatChem</i> , 2019, 11, 4519-4523.	3.7	38
119	H ₂ O ₂ Production at Low Overpotentials for Electroenzymatic Halogenation Reactions. <i>ChemSusChem</i> , 2019, 12, 4759-4763.	6.8	38
120	Light-Harvesting Dye-Alginate Hydrogel for Solar-Driven, Sustainable Biocatalysis of Asymmetric Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5632-5637.	6.7	38
121	Expanding the Scope of Laccase-Mediator Systems. <i>ChemCatChem</i> , 2013, 5, 3027-3032.	3.7	37
122	Enhancing the productivity of the bi-enzymatic convergent cascade for ε-caprolactone synthesis through design of experiments and a biphasic system. <i>Tetrahedron</i> , 2016, 72, 7222-7228.	1.9	37
123	Changing the electron donor improves azoreductase dye degrading activity at neutral pH. <i>Enzyme and Microbial Technology</i> , 2017, 100, 17-19.	3.2	37
124	Natural Deep Eutectic Solvents as Multifunctional Media for the Valorization of Agricultural Wastes. <i>ChemSusChem</i> , 2019, 12, 1310-1315.	6.8	37
125	Production of Bio-alkanes from Biomass and CO ₂ . <i>Trends in Biotechnology</i> , 2021, 39, 370-380.	9.3	37
126	Ionic Liquids: Green Solvents for Chemical Processing. <i>Journal of Chemistry</i> , 2013, 2013, 1-2.	1.9	35

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127	Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactamization of Amino Alcohols. <i>ACS Catalysis</i> , 2018, 8, 8680-8684.	11.2	35
128	Straightforward Regeneration of Reduced Flavin Adenine Dinucleotide Required for Enzymatic Tryptophan Halogenation. <i>ACS Catalysis</i> , 2019, 9, 1389-1395.	11.2	35
129	Pilot-Scale Production of Peroxygenase from <i>Agrocybe aegerita</i> . <i>Organic Process Research and Development</i> , 2021, 25, 1414-1418.	2.7	35
130	Thymol Bromination – A Comparison between Enzymatic and Chemical Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3519-3525.	2.0	34
131	Selektive C-H-Bindungsaktivierung durch eine Kaskade aus Photochemie und Biokatalyse. <i>Angewandte Chemie</i> , 2017, 129, 15654-15658.	2.0	34
132	Biocatalytic synthesis of lactones and lactams. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3601-3610.	3.3	34
133	Biocatalytic synthesis of the Green Note <i>trans</i> -2-hexenal in a continuous-flow microreactor. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 697-703.	2.2	34
134	Benchmarking of laboratory evolved unspecific peroxygenases for the synthesis of human drug metabolites. <i>Tetrahedron</i> , 2019, 75, 1827-1831.	1.9	34
135	Chemoenzymatic Reduction of Conjugated C=C Double Bonds. <i>ChemCatChem</i> , 2012, 4, 196-199.	3.7	33
136	A Photoenzymatic NADH Regeneration System. <i>ChemBioChem</i> , 2018, 19, 2344-2347.	2.6	33
137	Biocatalytic Oxidation of Alcohols. <i>Catalysts</i> , 2020, 10, 952.	3.5	32
138	Evolved Peroxygenase-Aryl Alcohol Oxidase Fusions for Self-Sufficient Oxyfunctionalization Reactions. <i>ACS Catalysis</i> , 2020, 10, 13524-13534.	11.2	32
139	Photoenzymatic Hydroxylation of Ethylbenzene Catalyzed by Unspecific Peroxygenase: Origin of Enzyme Inactivation and the Impact of Light Intensity and Temperature. <i>ChemCatChem</i> , 2019, 11, 3093-3100.	3.7	31
140	Intensification of Photobiocatalytic Decarboxylation of Fatty Acids for the Production of Biodiesel. <i>ChemSusChem</i> , 2021, 14, 1053-1056.	6.8	31
141	Exploring the Substrate Specificity and Enantioselectivity of a Baeyer-Villiger Monooxygenase from <i>Dietzia</i> sp. D5: Oxidation of Sulfides and Aldehydes. <i>Topics in Catalysis</i> , 2014, 57, 366-375.	2.8	30
142	Plasma-Driven in-Situ Production of Hydrogen Peroxide for Biocatalysis. <i>ChemSusChem</i> , 2020, 13, 2072-2079.	6.8	30
143	Surfing the wave of oxyfunctionalization chemistry by engineering fungal unspecific peroxygenases. <i>Current Opinion in Structural Biology</i> , 2022, 73, 102342.	5.7	30
144	Scaling-Up of Smart Cosubstrate-1,4-Butanediol Promoted Asymmetric Reduction of Ethyl-4,4,4-trifluoroacetate in Organic Media. <i>Organic Process Research and Development</i> , 2015, 19, 369-372.	2.7	29

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145	Rekombinante Cyanobakterien für die asymmetrische Reduktion von C=C-Bindungen mithilfe biokatalytischer Wasseroxidation. <i>Angewandte Chemie</i> , 2016, 128, 5672-5675.	2.0	29
146	Cofactor-free, Direct Photoactivation of Enoate Reductases for the Asymmetric Reduction of C=C Bonds. <i>Angewandte Chemie</i> , 2017, 129, 8807-8811.	2.0	29
147	Aqueous chemoenzymatic one-pot enantioselective synthesis of tertiary α -aryl cycloketones via Pd-catalyzed C=C formation and enzymatic C=C asymmetric hydrogenation. <i>Green Chemistry</i> , 2021, 23, 1960-1964.	9.0	29
148	Stabilisation of the Fatty Acid Decarboxylase from <i>Chlorella variabilis</i> by Caprylic Acid. <i>ChemBioChem</i> , 2021, 22, 2420-2423.	2.6	28
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