

Biocatalytic Oxidation Reactions: A Chemist's Perspective

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Catalytic Promiscuity of Galactose Oxidase: A Mild Synthesis of Nitriles from Alcohols, Air, and Ammonia. <i>Angewandte Chemie</i> , 2018, 130, 14436-14440.	1.6	13
2	Catalytic Promiscuity of Galactose Oxidase: A Mild Synthesis of Nitriles from Alcohols, Air, and Ammonia. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14240-14244.	7.2	39
3	A tailor-made, self-sufficient and recyclable monooxygenase catalyst based on coimmobilized cytochrome P450 BM3 and glucose dehydrogenase. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2416-2425.	1.7	27
4	Two-Component FAD-Dependent Monooxygenases: Current Knowledge and Biotechnological Opportunities. <i>Biology</i> , 2018, 7, 42.	1.3	68
5	Transition-metal-catalyzed decarbonylation of carboxylic acids to olefins: exploiting acyl C=O activation for the production of high value products. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2515-2521.	2.3	45
6	Catalytic Aerobic Oxidation of C(sp ³)-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7946-7970.	7.2	202
7	Katalytische, aerobe Oxidation von C(sp ³)-H-Bindungen. <i>Angewandte Chemie</i> , 2019, 131, 8028-8055.	1.6	35
8	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14499-14503.	7.2	26
9	Exploiting Cofactor Versatility to Convert a FAD-Dependent Baeyer-Villiger Monooxygenase into a Ketoreductase. <i>Angewandte Chemie</i> , 2019, 131, 14641-14645.	1.6	7
10	Statistical Analysis of the Benefits of Focused Saturation Mutagenesis in Directed Evolution Based on Reduced Amino Acid Alphabets. <i>ACS Catalysis</i> , 2019, 9, 7769-7778.	5.5	40
11	Peroxygenase-Catalysed Epoxidation of Styrene Derivatives in Neat Reaction Media. <i>ChemCatChem</i> , 2019, 11, 4519-4523.	1.8	38
12	Catalytic recycling of NAD(P)H. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110777.	1.5	38
13	A Highly Practical Copper(II)/TEMPO-SO ₄ H Catalyst System for Aerobic Oxidations of Primary Benzylic and Allylic Alcohols on Gram-Scale in Water. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1321-1324.	1.3	9
14	Cascading g-C ₃ N ₄ and Peroxygenases for Selective Oxyfunctionalization Reactions. <i>ACS Catalysis</i> , 2019, 9, 7409-7417.	5.5	64
15	Ruthenium(II)-catalysed selective C(sp ²)-H bond benzylation of biologically appealing N-arylisoindolinones. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 7517-7525.	1.5	15
16	One-Pot Two-Step Chemoenzymatic Cascade for the Synthesis of a Bis-benzofuran Derivative. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6341-6346.	1.2	17
17	P450BM3-Catalyzed Oxidations Employing Dual Functional Small Molecules. <i>Catalysts</i> , 2019, 9, 567.	1.6	10
18	Use of image analysis to understand enzyme stability in an aerated stirred reactor. <i>Biotechnology Progress</i> , 2019, 35, e2878.	1.3	7

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19	Bias-Free In Situ H ₂ O ₂ Generation in a Photovoltaic-Photoelectrochemical Tandem Cell for Biocatalytic Oxyfunctionalization. <i>ACS Catalysis</i> , 2019, 9, 10562-10566.	5.5	40
20	Aerobic Tetrazine-Catalyzed Oxidative Nitroso-Diels-Alder Reaction of N-Arylhydroxylamines with Dienecarbamates: Access to Functionalized 1,6-Dihydro-1,2-Oxazines. <i>ChemCatChem</i> , 2019, 11, 5282-5286.	1.8	6
21	One-Pot Enzyme Cascade for Controlled Synthesis of Furancarboxylic Acids from 5-Hydroxymethylfurfural by H ₂ O ₂ Internal Recycling. <i>ChemSusChem</i> , 2019, 12, 4764-4768.	3.6	45
22	Haloperoxidases as catalysts in organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9267-9274.	1.5	43
23	Dual-Enzyme-Catalyzed Synthesis of Enantiocomplementary Polyesters. <i>ACS Macro Letters</i> , 2019, 8, 1432-1436.	2.3	6
24	Combined Photoredox/Enzymatic C-H Benzylic Hydroxylations. <i>Angewandte Chemie</i> , 2019, 131, 16642-16646.	1.6	9
25	Biocatalytic Enantioselective Oxidation of <i>Sec</i> -Allylic Alcohols with Flavin-Dependent Oxidases. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 5264-5271.	2.1	16
27	One-Pot Catalytic Synthesis of Aniline-Copolymer-Containing Reactive Aldehyde Groups Using a Laccase-Mediator System. <i>ChemistrySelect</i> , 2019, 4, 10517-10519.	0.7	0
28	Customizing the Enantioselectivity of a Cyclohexanone Monooxygenase by a Strategy Combining α -Size-Probes with in silico Study. <i>ChemCatChem</i> , 2019, 11, 5085-5092.	1.8	1
29	Biocatalysis as Useful Tool in Asymmetric Synthesis: An Assessment of Recently Granted Patents (2014-2019). <i>Catalysts</i> , 2019, 9, 802.	1.6	69
30	Oxygen transfer in electrophilic epoxidation probed by 17O NMR: differentiating between oxidants and role of spectator metal oxo. <i>Chemical Science</i> , 2019, 10, 1786-1795.	3.7	16
31	α -Top- or α -bottom-switches of a cyclohexanone monooxygenase controlling the enantioselectivity of the sandwiched substrate. <i>Chemical Communications</i> , 2019, 55, 2198-2201.	2.2	14
32	Unleashing the Synthetic Power of Plant Oxygenases: From Mechanism to Application. <i>Plant Physiology</i> , 2019, 179, 813-829.	2.3	28
33	Myoglobin-Catalyzed Efficient In Situ Regeneration of NAD(P) ⁺ and Their Synthetic Biomimetic for Dehydrogenase-Mediated Oxidations. <i>ACS Catalysis</i> , 2019, 9, 2196-2202.	5.5	21
34	Biocatalytic selective functionalisation of alkenes via single-step and one-pot multi-step reactions. <i>Chemical Communications</i> , 2019, 55, 883-896.	2.2	58
35	S-adenosylhomocysteine as a methyl transfer catalyst in biocatalytic methylation reactions. <i>Nature Catalysis</i> , 2019, 2, 696-701.	16.1	90
36	Hydrogen peroxide driven biocatalysis. <i>Green Chemistry</i> , 2019, 21, 3232-3249.	4.6	133
37	Industrial Application of 2-Oxoglutarate-Dependent Oxygenases. <i>Catalysts</i> , 2019, 9, 221.	1.6	42

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38	Immobilization of P450 BM3 monooxygenase on hollow nanosphere composite: Application for degradation of organic gases pollutants under solar radiation lamp. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 88-95.	10.8	35
39	Whole Cell-Based Cascade Biotransformation for the Production of (S)-Mandelic Acid from Styrene, L-Phenylalanine, Glucose, or Glycerol. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 3560-3568.	2.1	26
40	Accelerating the implementation of biocatalysis in industry. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4733-4739.	1.7	112
41	Morpholine-based buffers activate aerobic photobiocatalysis via spin correlated ion pair formation. <i>Catalysis Science and Technology</i> , 2019, 9, 1365-1371.	2.1	17
42	Exploiting Designed Oxidase-Peroxygenase Mutual Benefit System for Asymmetric Cascade Reactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 5655-5658.	6.6	32
43	Reaction Engineering for the Industrial Implementation of Biocatalysis. <i>Topics in Catalysis</i> , 2019, 62, 1202-1207.	1.3	23
44	Biocatalysis Fueled by Light: On the Versatile Combination of Photocatalysis and Enzymes. <i>ChemBioChem</i> , 2019, 20, 1871-1897.	1.3	79
45	Bubble Column Enables Higher Reaction Rate for Deracemization of (R,S)-Phenylethanol with Coupled Alcohol Dehydrogenase/NADH Oxidase System. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2574-2581.	2.1	22
46	Broadening the Scope of Biocatalysis in Sustainable Organic Synthesis. <i>ChemSusChem</i> , 2019, 12, 2859-2881.	3.6	228
47	Formiat-Oxidase (FOx) aus <i>Aspergillus oryzae</i> : ein Katalysator für verschiedene H ₂ O ₂ -abhängige biokatalytische Oxidationen. <i>Angewandte Chemie</i> , 2019, 131, 7955-7959.	1.6	17
48	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.	7.2	67
49	Biocatalysis for terpene-based polymers. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2019, 74, 91-100.	0.6	9
50	A Retrobiosynthesis-Based Route to Generate Pinene-Derived Polyesters. <i>ChemBioChem</i> , 2019, 20, 1664-1671.	1.3	21
51	Cytochrome P450 Monooxygenases in Biotechnology and Synthetic Biology. <i>Trends in Biotechnology</i> , 2019, 37, 882-897.	4.9	227
52	Biocatalytic Methyl Ether Cleavage: Characterization of the Corrinoid-Dependent Methyl Transfer System from <i>Desulfitobacterium hafniense</i> . <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2688-2695.	2.1	7
53	Tailoring chemoenzymatic oxidation via in situ peracids. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9418-9424.	1.5	9
54	Design of Artificial Alcohol Oxidases: Alcohol Dehydrogenase-NADPH Oxidase Fusions for Continuous Oxidations. <i>ChemBioChem</i> , 2019, 20, 51-56.	1.3	24
55	Combining Flavin Photocatalysis and Organocatalysis: Metal-Free Aerobic Oxidation of Unactivated Benzylic Substrates. <i>Organic Letters</i> , 2019, 21, 114-119.	2.4	79

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56	Preparative Asymmetric Synthesis of Canonical and Non-canonical α -amino Acids Through Formal Enantioselective Biocatalytic Amination of Carboxylic Acids. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1348-1358.	2.1	22
57	Expanding the Spectrum of Light-Driven Peroxygenase Reactions. <i>ACS Catalysis</i> , 2019, 9, 890-894.	5.5	62
58	One-Pot Production of Natural β -Phenylethanol from <i>L</i> -Phenylalanine via Cascade Biotransformations. <i>ChemCatChem</i> , 2019, 11, 831-840.	1.8	33
59	Efficient Aerobic Oxidation of <i>trans</i> -2-Hexenal using the Aryl Alcohol Oxidase from <i>Pleurotus eryngii</i> . <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2668-2672.	2.1	23
60	Ru-Catalyzed Selective C-H Bond Hydroxylation of Cyclic Imides. <i>Journal of Organic Chemistry</i> , 2019, 84, 1898-1907.	1.7	25
61	Multienzymatic in situ hydrogen peroxide generation cascade for peroxygenase-catalysed oxyfunctionalisation reactions. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2019, 74, 101-104.	0.6	17
62	Monooxygenation of aromatic compounds by flavin-dependent monooxygenases. <i>Protein Science</i> , 2019, 28, 8-29.	3.1	67
63	Process intensification for O_2 -dependent enzymatic transformations in continuous single-phase pressurized flow. <i>Biotechnology and Bioengineering</i> , 2019, 116, 503-514.	1.7	37
64	Accessing Enantiopure Epoxides and Sulfoxides: Related Flavin-Dependent Monooxygenases Provide Reversed Enantioselectivity. <i>ChemCatChem</i> , 2020, 12, 199-209.	1.8	29
65	Functional characterization of an (R)-selective styrene monooxygenase from streptomyces sp. NRRL S-31. <i>Enzyme and Microbial Technology</i> , 2020, 132, 109391.	1.6	17
66	New frontiers in biocatalysis for sustainable synthesis. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 21, 22-26.	3.2	81
67	Efficient synthesis of 5-hydroxymethyl-2-furancarboxylic acid by <i>Escherichia coli</i> overexpressing aldehyde dehydrogenases. <i>Journal of Biotechnology</i> , 2020, 307, 125-130.	1.9	38
68	Heterogeneous Manganese-Catalyzed Oxidase C ^H /C ^O Cyclization to Access Pharmaceutically Active Compounds. <i>ChemCatChem</i> , 2020, 12, 449-454.	1.8	23
69	A whole-cell process for the production of ϵ -caprolactone in aqueous media. <i>Process Biochemistry</i> , 2020, 88, 22-30.	1.8	18
70	P450-BM3-Catalyzed Sulfoxidation versus Hydroxylation: A Common or Two Different Catalytically Active Species?. <i>Journal of the American Chemical Society</i> , 2020, 142, 2068-2073.	6.6	37
71	Photochemical oxidation of benzylic primary and secondary alcohols utilizing air as the oxidant. <i>Green Chemistry</i> , 2020, 22, 471-477.	4.6	95
72	Artifizielle Lichtsammelkomplexe ermöglichen Rieske-Oxygenase-katalysierte Hydroxylierungen in nicht-photosynthetischen Zellen. <i>Angewandte Chemie</i> , 2020, 132, 4010-4016.	1.6	6
73	Flavoenzyme-mediated Regioselective Aromatic Hydroxylation with Coenzyme Biomimetics. <i>ChemCatChem</i> , 2020, 12, 1368-1375.	1.8	23

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74	Artificial Light-Harvesting Complexes Enable Rieske Oxygenase Catalyzed Hydroxylations in Non-Photosynthetic cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3982-3987.	7.2	35
75	Asymmetric redox-neutral radical cyclization catalysed by flavin-dependent ene-reductases. <i>Nature Chemistry</i> , 2020, 12, 71-75.	6.6	123
76	Thermal, electrochemical and photochemical reactions involving catalytically versatile ene reductase enzymes. <i>The Enzymes</i> , 2020, 47, 491-515.	0.7	2
77	Selective oxidation of alkyl and aryl glyceryl monoethers catalysed by an engineered and immobilised glycerol dehydrogenase. <i>Chemical Science</i> , 2020, 11, 12009-12020.	3.7	9
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83	The amine as carbonyl precursor in the chemoenzymatic synthesis of Passerini adducts in aqueous medium. <i>Catalysis Communications</i> , 2020, 145, 106118.	1.6	6
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87	A Simple Biosystem for the High-Yielding Cascade Conversion of Racemic Alcohols to Enantiopure Amines. <i>Angewandte Chemie</i> , 2020, 132, 21929-21935.	1.6	6
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90	Optimization of Alcohol Dehydrogenase for Industrial Scale Oxidation of Lactols. <i>Biotechnology Journal</i> , 2020, 15, e2000171.	1.8	10
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93	Self-Immobilized Putrescine Oxidase Biocatalyst System Engineered with a Metal Binding Peptide. <i>Langmuir</i> , 2020, 36, 11908-11917.	1.6	4
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95	Catalytic Enantioselective Methylene C(sp ³)-H Hydroxylation Using a Chiral Manganese Complex/Carboxylic Acid System. <i>Organic Letters</i> , 2020, 22, 9529-9533.	2.4	32
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97	Profiling and Identification of Biocatalyzed Transformation of Sulfoxaflor In Vivo. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16218-16224.	7.2	24
98	Profiling and Identification of Biocatalyzed Transformation of Sulfoxaflor In Vivo. <i>Angewandte Chemie</i> , 2020, 132, 16352-16358.	1.6	0
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100	The Effect of Dissolved Oxygen on Kinetics during Continuous Biocatalytic Oxidations. <i>Organic Process Research and Development</i> , 2020, 24, 2055-2063.	1.3	28
101	Solar-Assisted eBiorefinery: Photoelectrochemical Pairing of Oxyfunctionalization and Hydrogenation Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15886-15890.	7.2	26
102	Solar-Assisted eBiorefinery: Photoelectrochemical Pairing of Oxyfunctionalization and Hydrogenation Reactions. <i>Angewandte Chemie</i> , 2020, 132, 16020-16024.	1.6	6
103	Biochemical and Genetic Analysis of 4-Hydroxypyridine Catabolism in <i>Arthrobacter</i> sp. Strain IN13. <i>Microorganisms</i> , 2020, 8, 888.	1.6	5
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105	Ligand-Enabled Monoselective \hat{I}^2 -C(sp ³)-H Acyloxylation of Free Carboxylic Acids Using a Practical Oxidant. <i>Journal of the American Chemical Society</i> , 2020, 142, 6769-6776.	6.6	64
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109	Biocatalyzed Redox Processes Employing Green Reaction Media. <i>Molecules</i> , 2020, 25, 3016.	1.7	17

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111	The Hitchhiker's guide to biocatalysis: recent advances in the use of enzymes in organic synthesis. Chemical Science, 2020, 11, 2587-2605.	3.7	188
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114	Enzymes revolutionize the bioproduction of value-added compounds: From enzyme discovery to special applications. Biotechnology Advances, 2020, 40, 107520.	6.0	97
115	Kinetic Resolution of Racemic Primary Amines Using <i>Geobacillus stearothermophilus</i> Amine Dehydrogenase Variant. ChemCatChem, 2020, 12, 2184-2188.	1.8	13
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129	Repurposing Inflatable Packaging Pillows as Bioreactors: a Convenient Synthesis of Glucosone by Whole-Cell Catalysis Under Oxygen. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 743-760.	1.4	0
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131	An Integrated Cofactor/Co-product Recycling Cascade for the Biosynthesis of Nylon Monomers from Cycloalkylamines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3481-3486.	7.2	19
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135	An alginate-confined peroxxygenase-CLEA for styrene epoxidation. <i>Chemical Communications</i> , 2021, 57, 5766-5769.	2.2	9
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