Uwe T Bornscheuer

List of Publications by Year in descending order

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536 papers	28,406 citations	6254 80 h-index	9861 141 g-index
656 all docs	656 docs citations	656 times ranked	16373 citing authors

#	Article	IF	Citations
1	Engineering the third wave of biocatalysis. Nature, 2012, 485, 185-194.	27.8	2,099
2	Oils and Fats as Renewable Raw Materials in Chemistry. Angewandte Chemie - International Edition, 2011, 50, 3854-3871.	13.8	871
3	Microbial carboxyl esterases: classification, properties and application in biocatalysis. FEMS Microbiology Reviews, 2002, 26, 73-81.	8.6	742
4	Biocatalysis: Enzymatic Synthesis for Industrial Applications. Angewandte Chemie - International Edition, 2021, 60, 88-119.	13.8	711
5	Catalytic Promiscuity in Biocatalysis: Using Old Enzymes to Form New Bonds and Follow New Pathways. Angewandte Chemie - International Edition, 2004, 43, 6032-6040.	13.8	525
6	Immobilizing Enzymes: How to Create More Suitableâ€‰Biocatalysts. Angewandte Chemie - International Edition, 2003, 42, 3336-3337.	13.8	487
7	Opportunities and challenges for combining chemo- and biocatalysis. Nature Catalysis, 2018, 1, 12-22.	34.4	479
8	Improved biocatalysts by directed evolution and rational protein design. Current Opinion in Chemical Biology, 2001, 5, 137-143.	6.1	410
9	Biocatalytic Routes to Optically Active Amines. ChemCatChem, 2009, 1, 42-51.	3.7	351
10	Rational assignment of key motifs for function guides in silico enzyme identification. Nature Chemical Biology, 2010, 6, 807-813.	8.0	345
11	Improvement in lipase-catalyzed synthesis of fatty acid methyl esters from sunflower oil. Enzyme and Microbial Technology, 2003, 33, 97-103.	3.2	339
12	Lipids as renewable resources: current state of chemical and biotechnological conversion and diversification. Applied Microbiology and Biotechnology, 2006, 71, 13-22.	3.6	335
13	Cascade catalysis â€“ strategies and challenges en route to preparative synthetic biology. Chemical Communications, 2015, 51, 5798-5811.	4.1	287
14	Structure of the plastic-degrading Ideonella sakaiensis MHETase bound to a substrate. Nature Communications, 2019, 10, 1717.	12.8	265
15	Possibilities and limitations of biotechnological plastic degradation and recycling. Nature Catalysis, 2020, 3, 867-871.	34.4	233
16	Optimizing lipases and related enzymes for efficient application. Trends in Biotechnology, 2002, 20, 433-437.	9.3	222
17	Lipase-catalyzed syntheses of monoacylglycerols. Enzyme and Microbial Technology, 1995, 17, 578-586.	3.2	216
18	Finding better protein engineering strategies. Nature Chemical Biology, 2009, 5, 526-529.	8.0	202

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19	Efficient Asymmetric Synthesis of Chiral Amines by Combining Transaminase and Pyruvate Decarboxylase. ChemBioChem, 2008, 9, 363-365.	2.6	195
20	Bioinformatic analysis of a PLP-dependent enzyme superfamily suitable for biocatalytic applications. Biotechnology Advances, 2015, 33, 566-604.	11.7	193
21	Identification of (S)-selective transaminases for the asymmetric synthesis of bulky chiral amines. Nature Chemistry, 2016, 8, 1076-1082.	13.6	193
22	Multistep Enzymatic Synthesis of Longâ€Chain Î±,Ï‰â€Dicarboxylic and Ï‰â€Hydroxycarboxylic Acids from Renewable Fatty Acids and Plant Oils. Angewandte Chemie - International Edition, 2013, 52, 2534-2537.	13.8	186
23	An Enzyme Cascade Synthesis of Îµâ€Caprolactone and its Oligomers. Angewandte Chemie - International Edition, 2015, 54, 2784-2787.	13.8	175
24	Recent trends in biocatalysis. Chemical Society Reviews, 2021, 50, 8003-8049.	38.1	175
25	Increased stability of an esterase from Bacillus stearothermophilus in ionic liquids as compared to organic solvents. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 21-27.	1.8	174
26	A Retrosynthesis Approach for Biocatalysis in Organic Synthesis. Chemistry - A European Journal, 2017, 23, 12040-12063.	3.3	171
27	Strategies for the discovery and engineering of enzymes for biocatalysis. Current Opinion in Chemical Biology, 2013, 17, 215-220.	6.1	169
28	Directed Evolution Empowered Redesign of Natural Proteins for the Sustainable Production of Chemicals and Pharmaceuticals. Angewandte Chemie - International Edition, 2019, 58, 36-40.	13.8	169
29	Rapid and Sensitive Kinetic Assay for Characterization of Ï‰-Transaminases. Analytical Chemistry, 2009, 81, 8244-8248.	6.5	160
30	Graphene-based nanobiocatalytic systems: recent advances and future prospects. Trends in Biotechnology, 2014, 32, 312-320.	9.3	152
31	Lipase-Catalyzed Glucose Fatty Acid Ester Synthesis in Ionic Liquids. Organic Letters, 2005, 7, 3097-3098.	4.6	143
32	Complete Inversion of Enantioselectivity towards Acetylated Tertiary Alcohols by a Double Mutant of a Bacillus Subtilis Esterase. Angewandte Chemie - International Edition, 2008, 47, 1508-1511.	13.8	143
33	Development of effective nanobiocatalytic systems through the immobilization of hydrolases on functionalized carbon-based nanomaterials. Bioresource Technology, 2012, 115, 164-171.	9.6	142
34	Activity of Lipases and Esterases towards Tertiary Alcohols: Insights into Structureï¿½ï¿½Function Relationships. Angewandte Chemie - International Edition, 2002, 41, 3211-3213.	13.8	139
35	Methods to increase enantioselectivity of lipases and esterases. Current Opinion in Biotechnology, 2002, 13, 543-547.	6.6	131
36	Directed evolution of an esterase for the stereoselective resolution of a key intermediate in the synthesis of epothilones. , 1998, 58, 554-559.		129

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37	Discovery, application and protein engineering of Baeyerâ€“Villiger monooxygenases for organic synthesis. Organic and Biomolecular Chemistry, 2012, 10, 6249.	2.8	128
38	The Î±/Î²â€Hydrolase Fold 3DM Database (ABHDB) as a Tool for Protein Engineering. ChemBioChem, 2010, 11, 1635-1643.	2.6	126
39	Enzymatic Asymmetric Synthesis of Enantiomerically Pure Aliphatic, Aromatic and Arylaliphatic Amines with (R)â€Selective Amine Transaminases. Advanced Synthesis and Catalysis, 2011, 353, 2439-2445.	4.3	124
40	Enzymatic Degradation of (Ligno)cellulose. Angewandte Chemie - International Edition, 2014, 53, 10876-10893.	13.8	123
41	Lipase-Catalyzed Solid Phase Synthesis of Sugar Fatty Acid Esters. Biocatalysis and Biotransformation, 1996, 14, 269-283.	2.0	120
42	Natural Diversity to Guide Focused Directed Evolution. ChemBioChem, 2010, 11, 1861-1866.	2.6	120
43	Thermostabilization of an esterase by alignment-guided focussed directed evolution. Protein Engineering, Design and Selection, 2010, 23, 903-909.	2.1	117
44	3DM: Systematic analysis of heterogeneous superfamily data to discover protein functionalities. Proteins: Structure, Function and Bioinformatics, 2010, 78, NA-NA.	2.6	115
45	Enzymatic Synthesis of Optically Active Tertiary Alcohols: Expanding the Biocatalysis Toolbox. ChemBioChem, 2008, 9, 491-498.	2.6	114
46	Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry. Angewandte Chemie - International Edition, 2021, 60, 20144-20165.	13.8	114
47	Optimization of lipase-catalyzed glucose fatty acid ester synthesis in a two-phase system containing ionic liquids and t-BuOH. Journal of Molecular Catalysis B: Enzymatic, 2005, 36, 40-42.	1.8	113
48	Engineering Enzyme Stability and Resistance to an Organic Cosolvent by Modification of Residues in the Access Tunnel. Angewandte Chemie - International Edition, 2013, 52, 1959-1963.	13.8	113
49	Protein engineering of microbial enzymes. Current Opinion in Microbiology, 2010, 13, 274-282.	5.1	112
50	Feeding on plastic. Science, 2016, 351, 1154-1155.	12.6	112
51	Lipase-catalyzed solid-phase synthesis of sugar esters. Influence of immobilization on productivity and stability of the enzyme. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 279-285.	1.8	109
52	The application of biotechnological methods for the synthesis of biodiesel. European Journal of Lipid Science and Technology, 2009, 111, 800-813.	1.5	108
53	Microbial Synthesis of Mediumâ€Chain Î±,Ï‰â€Dicarboxylic Acids and Ï‰â€Aminocarboxylic Acids from Renewable Longâ€Chain Fatty Acids. Advanced Synthesis and Catalysis, 2014, 356, 1782-1788.	4.3	108
54	The fourth wave of biocatalysis is approaching. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170063.	3.4	108

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55	A Molecular Mechanism of Enantiorecognition of Tertiary Alcohols by Carboxylesterases. ChemBioChem, 2003, 4, 485-493.	2.6	107
56	Thermophilic wholeâ€cell degradation of polyethylene terephthalate using engineered Clostridium thermocellum. Microbial Biotechnology, 2021, 14, 374-385.	4.2	106
57	High-throughput assays for lipases and esterases. New Biotechnology, 2005, 22, 51-56.	2.7	105
58	Substrate specificity of lipase B from Candida antarctica in the synthesis of arylaliphatic glycolipids. Journal of Molecular Catalysis B: Enzymatic, 2000, 8, 201-211.	1.8	104
59	Mechanism-Based Design of Efficient PET Hydrolases. ACS Catalysis, 2022, 12, 3382-3396.	11.2	104
60	A High-Throughput-Screening Method for the Identification of Active and Enantioselective Hydrolases. Angewandte Chemie - International Edition, 2001, 40, 4201-4204.	13.8	101
61	Screening of Commercial Hydrolases for the Degradation of Ochratoxin A. Journal of Agricultural and Food Chemistry, 2000, 48, 5736-5739.	5.2	99
62	Directed Evolution of an Esterase from Pseudomonas fluorescens. Random Mutagenesis by Error-Prone PCR or a Mutator Strain and Identification of Mutants Showing Enhanced Enantioselectivity by a Resorufin-Based Fluorescence Assay. Biological Chemistry, 1999, 380, 1029-33.	2.5	97
63	Lipase-catalyzed alcoholysis of vegetable oils. European Journal of Lipid Science and Technology, 2003, 105, 656-660.	1.5	97
64	A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. Nature Chemical Biology, 2019, 15, 803-812.	8.0	97
65	Mutations in Distant Residues Moderately Increase the Enantioselectivity of Pseudomonas fluorescens Esterase towards Methyl 3Bromo-2-methylpropanoate and Ethyl 3Phenylbutyrate. Chemistry - A European Journal, 2003, 9, 1933-1939.	3.3	96
66	Growth of Escherichia coli, Pichia pastoris and Bacillus cereus in the Presence of the Ionic Liquids [BMIM][BF4] and [BMIM][PF6] and Organic Solvents. Biotechnology Letters, 2006, 28, 465-469.	2.2	95
67	Review Article Enzymes in Non-Conventional Phases. Biocatalysis and Biotransformation, 1995, 13, 1-42.	2.0	93
68	Protein Engineering of Î±/Î²â€Hydrolase Fold Enzymes. ChemBioChem, 2011, 12, 1508-1517.	2.6	92
69	Engineering the Active Site of the Amine Transaminase from Vibrio fluvialis for the Asymmetric Synthesis of Arylâ€“Alkyl Amines and Amino Alcohols. ChemCatChem, 2015, 7, 757-760.	3.7	91
70	Enantioselective transesterification of a tertiary alcohol by lipase A from Candida antarctica. Tetrahedron: Asymmetry, 2002, 13, 2693-2696.	1.8	89
71	Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation. Nature Communications, 2019, 10, 5581.	12.8	89
72	Biokatalyse: Enzymatische Synthese fÃ¼r industrielle Anwendungen. Angewandte Chemie, 2021, 133, 89-123.	2.0	89

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73	Lipase-catalyzed synthesis of vitamin C fatty acid esters. Biotechnology Letters, 1999, 21, 1051-1054.	2.2	88
74	An Enzymatic Toolbox for Cascade Reactions: A Showcase for an Inâ€…Vivo Redox Sequence in Asymmetric Synthesis. ChemCatChem, 2013, 5, 3524-3528.	3.7	88
75	Discovery and Protein Engineering of Biocatalysts for Organic Synthesis. Advanced Synthesis and Catalysis, 2011, 353, 2191-2215.	4.3	86
76	Mapping the substrate selectivity of new hydrolases using colorimetric screening: lipases from Bacillus thermocatenulatus and Ophiostoma piliferum, esterases from Pseudomonas fluorescens and Streptomyces diastatochromogenes. Tetrahedron: Asymmetry, 2001, 12, 545-556.	1.8	85
77	Lipase-catalyzed solid-phase synthesis of sugar fatty acid esters. Enzyme and Microbial Technology, 1999, 25, 725-728.	3.2	84
78	Optimization of the reaction conditions in the lipase-catalyzed synthesis of structured triglycerides. JAOCS, Journal of the American Oil Chemists' Society, 1998, 75, 1527-1531.	1.9	82
79	Directed evolution of an esterase: screening of enzyme libraries based on ph-Indicators and a growth assay. Bioorganic and Medicinal Chemistry, 1999, 7, 2169-2173.	3.0	82
80	A self-sufficient Baeyerâ€“Villiger biocatalysis system for the synthesis of É›-caprolactone from cyclohexanol. Enzyme and Microbial Technology, 2013, 53, 283-287.	3.2	81
81	Thermostable lipases from the extreme thermophilic anaerobic bacteria Thermoanaerobacter thermohydrosulfuricus SOL1 and Caldanaerobacter subterraneus subsp. tengcongensis. Extremophiles, 2009, 13, 769-783.	2.3	80
82	Revealing the Structural Basis of Promiscuous Amine Transaminase Activity. ChemCatChem, 2013, 5, 154-157.	3.7	80
83	Characterization and enantioselectivity of a recombinant esterase from Pseudomonas fluorescens. Enzyme and Microbial Technology, 1998, 22, 641-646.	3.2	77
84	A High-Throughput-Screening Method for Determining the Synthetic Activity of Hydrolases. Angewandte Chemie - International Edition, 2003, 42, 1418-1420.	13.8	77
85	Expression of Candida antarctica lipase B in Pichia pastoris and various Escherichia coli systems. Protein Expression and Purification, 2008, 62, 90-97.	1.3	77
86	Exploiting the Regioselectivity of Baeyerâ€“Villiger Monooxygenases for the Formation of Î²â€Amino Acids and Î²â€Amino Alcohols. Angewandte Chemie - International Edition, 2010, 49, 4506-4508.	13.8	77
87	Fully automatized highâ€throughput enzyme library screening using a robotic platform. Biotechnology and Bioengineering, 2016, 113, 1421-1432.	3.3	77
88	Alkene hydrogenation activity of enoate reductases for an environmentally benign biosynthesis of adipic acid. Chemical Science, 2017, 8, 1406-1413.	7.4	77
89	Creation of a Lipase Highly Selective for trans Fatty Acids by Protein Engineering. Angewandte Chemie - International Edition, 2012, 51, 412-414.	13.8	76
90	Two-step enzymatic reaction for the synthesis of pure structured triacylglycerides. JAOCS, Journal of the American Oil Chemists' Society, 1998, 75, 703-710.	1.9	75

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91	Direct biocatalytic one-pot-transformation of cyclohexanol with molecular oxygen into É›-caprolactone. Enzyme and Microbial Technology, 2013, 53, 288-292.	3.2	75
92	Enzymes in Lipid Modification. Annual Review of Food Science and Technology, 2018, 9, 85-103.	9.9	75
93	Factors affecting the lipase catalyzed transesterification reactions of 3-hydroxy esters in organic solvents.. Tetrahedron: Asymmetry, 1993, 4, 1007-1016.	1.8	74
94	Biocatalytic synthesis of optically active tertiary alcohols. Applied Microbiology and Biotechnology, 2011, 91, 505-517.	3.6	74
95	CO₂ Fixation through Hydrogenation by Chemical or Enzymatic Methods. Angewandte Chemie - International Edition, 2014, 53, 4527-4528.	13.8	74
96	Lipase of Pseudomonas cepacia for biotechnological purposes: purification, crystallization and characterization. Biochimica Et Biophysica Acta - General Subjects, 1994, 1201, 55-60.	2.4	73
97	Rapid screening of hydrolases for the enantioselective conversion of â€˜difficult-to-resolveâ€™ substrates. Tetrahedron: Asymmetry, 2000, 11, 4781-4790.	1.8	72
98	The Metagenome-Derived Enzymes LipS and LipT Increase the Diversity of Known Lipases. PLoS ONE, 2012, 7, e47665.	2.5	72
99	Chemoenzymatic Dynamic Kinetic Resolution of Acyloins. Journal of Organic Chemistry, 2005, 70, 9551-9555.	3.2	71
100	Getting Momentum: From Biocatalysis to Advanced Synthetic Biology. Trends in Biochemical Sciences, 2018, 43, 180-198.	7.5	70
101	Directed Evolution of an Esterase from Pseudomonas fluorescens Yields a Mutant with Excellent Enantioselectivity and Activity for the Kinetic Resolution of a Chiral Building Block. ChemBioChem, 2006, 7, 805-809.	2.6	69
102	Cloning, expression and characterization of a Baeyer-Villiger monooxygenase from Pseudomonas putida KT2440. Biotechnology Letters, 2007, 29, 1393-1398.	2.2	68
103	Regulation of catalytic behaviour of hydrolases through interactions with functionalized carbon-based nanomaterials. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	68
104	Hot spots for the protein engineering of Baeyer-Villiger monooxygenases. Biotechnology Advances, 2018, 36, 247-263.	11.7	68
105	Highlights in Biocatalysis - Historical Landmarks and Current Trends. Engineering in Life Sciences, 2005, 5, 309-323.	3.6	67
106	Converting an Esterase into an Epoxide Hydrolase. Angewandte Chemie - International Edition, 2009, 48, 3532-3535.	13.8	67
107	Connecting Unexplored Protein Crystal Structures to Enzymatic Function. ChemCatChem, 2013, 5, 150-153.	3.7	67
108	Cloning, expression, and characterization of a Baeyerâ€“Villiger monooxygenase from Pseudomonas fluorescens DSM 50106 in E. coli. Applied Microbiology and Biotechnology, 2007, 73, 1065-1072.	3.6	66

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109	The crystal structure of an esterase from the hyperthermophilic microorganism Pyrobaculum calidifontis VA1 explains its enantioselectivity. Applied Microbiology and Biotechnology, 2011, 91, 1061-1072.	3.6	64
110	Extracellular production of active Rhizopus oryzae lipase by Saccharomyces cerevisiae. Journal of Bioscience and Bioengineering, 1998, 86, 164-168.	0.9	63
111	The Use of Vinyl Esters Significantly Enhanced Enantioselectivities and Reaction Rates in Lipase-Catalyzed Resolutions of Arylaliphatic Carboxylic Acids. Journal of Organic Chemistry, 1999, 64, 1709-1712.	3.2	63
112	From waste to value â€“ direct utilization of limonene from orange peel in a biocatalytic cascade reaction towards chiral carvolactone. Green Chemistry, 2017, 19, 367-371.	9.0	63
113	Cloning, expression, characterization and role of the leader sequence of a lipase from Rhizopus oryzae. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1399, 173-180.	2.4	61
114	Non-Racemic Halohydrinsvia Biocatalytic Hydrogen-Transfer Reduction of Halo-Ketones and One-Pot Cascade Reaction to Enantiopure Epoxides. Advanced Synthesis and Catalysis, 2005, 347, 1827-1834.	4.3	60
115	Wholeâ€Cell Photoenzymatic Cascades to Synthesize Longâ€Chain Aliphatic Amines and Esters from Renewable Fatty Acids. Angewandte Chemie - International Edition, 2020, 59, 7024-7028.	13.8	60
116	A colorimetric assay suitable for screening epoxide hydrolase activity. Analytica Chimica Acta, 1999, 391, 345-351.	5.4	59
117	Highly enantioselective kinetic resolution of two tertiary alcohols using mutants of an esterase from Bacillus subtilis. Protein Engineering, Design and Selection, 2007, 20, 125-131.	2.1	59
118	Highly Enantioselective Synthesis of Arylaliphatic Tertiary Alcohols using Mutants of an Esterase fromBacillus subtilis. Advanced Synthesis and Catalysis, 2007, 349, 1393-1398.	4.3	59
119	Understanding Promiscuous Amidase Activity of an Esterase from Bacillus subtilis. ChemBioChem, 2008, 9, 67-69.	2.6	58
120	Biotransformation of Linoleic Acid into Hydroxy Fatty Acids and Carboxylic Acids Using a Linoleate Double Bond Hydratase as Key Enzyme. Advanced Synthesis and Catalysis, 2015, 357, 408-416.	4.3	58
121	Engineering and application of enzymes for lipid modification, an update. Progress in Lipid Research, 2016, 63, 153-164.	11.6	58
122	Directed evolution of a Baeyerâ€“Villiger monooxygenase to enhance enantioselectivity. Applied Microbiology and Biotechnology, 2008, 81, 465-472.	3.6	57
123	Protein engineering and discovery of lipases. European Journal of Lipid Science and Technology, 2010, 112, 64-74.	1.5	56
124	Enzymatic Conversion of Flavonoids using Bacterial Chalcone Isomerase and Enoate Reductase. Angewandte Chemie - International Edition, 2014, 53, 1439-1442.	13.8	56
125	The metabolic potential of plastics as biotechnological carbon sources â€“ Review and targets for the future. Metabolic Engineering, 2022, 71, 77-98.	7.0	55
126	A Protection Strategy Substantially Enhances Rate and Enantioselectivity in Ï‰â€Transaminaseâ€Catalyzed Kinetic Resolutions. Advanced Synthesis and Catalysis, 2008, 350, 807-812.	4.3	54

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127	Efficient Reduction of Ethyl 2â€Oxoâ€4â€phenylbutyrate at 620â€...gâ‹...L^{â^'1} by a Bacterial Reductase with Broad Substrate Spectrum. Advanced Synthesis and Catalysis, 2011, 353, 1213-1217.	4.3	54
128	The effect of disulfide bond introduction and related Cys/Ser mutations on the stability of a cyclohexanone monooxygenase. Journal of Biotechnology, 2015, 214, 199-211.	3.8	54
129	Directed Evolution of a Halide Methyltransferase Enables Biocatalytic Synthesis of Diverse SAM Analogs. Angewandte Chemie - International Edition, 2021, 60, 1524-1527.	13.8	54
130	Engineering theÂprotein dynamics of anÂancestral luciferase. Nature Communications, 2021, 12, 3616.	12.8	54
131	Enantioselective Hydrolysis ofd,l-Menthyl Benzoate toL-(-)-Menthol by RecombinantCandida rugosa Lipase LIP1. Advanced Synthesis and Catalysis, 2002, 344, 1152-1155.	4.3	53
132	A Single Residue Influences the Reaction Mechanism of Ammonia Lyases and Mutases. Angewandte Chemie - International Edition, 2009, 48, 3362-3365.	13.8	53
133	Mutational analysis of phenylalanine ammonia lyase to improve reactions rates for various substrates. Protein Engineering, Design and Selection, 2010, 23, 929-933.	2.1	51
134	Use of â€˜small but smartâ€™ libraries to enhance the enantioselectivity of an esterase from BacillusÂstearothermophilus towards tetrahydrofuranâ€3â€yl acetate. FEBS Journal, 2013, 280, 3084-3093.	4.7	51
135	Engineering and evaluation of thermostable IsPETase variants for PET degradation. Engineering in Life Sciences, 2022, 22, 192-203.	3.6	51
136	Kinetic Resolution of 4-Hydroxy-2-ketones Catalyzed by a Baeyerâ€“Villiger Monooxygenase. Angewandte Chemie - International Edition, 2006, 45, 7004-7006.	13.8	50
137	Isoenzymes of Pigâ€Liver Esterase Reveal Striking Differences in Enantioselectivities. Angewandte Chemie - International Edition, 2007, 46, 8492-8494.	13.8	50
138	A Fedâ€Batch Synthetic Strategy for a Threeâ€Step Enzymatic Synthesis of Polyâ€ïµâ€caprolactone. ChemCatChem, 2016, 8, 3446-3452.	3.7	50
139	Kinetic insights into ïµâ€caprolactone synthesis: Improvement of an enzymatic cascade reaction. Biotechnology and Bioengineering, 2017, 114, 1215-1221.	3.3	50
140	Cloning, Functional Expression, and Characterization of Recombinant Pig Liver Esterase. ChemBioChem, 2001, 2, 576-582.	2.6	49
141	Immobilization of (R)- and (S)-amine transaminases on chitosan support and their application for amine synthesis using isopropylamine as donor. Journal of Biotechnology, 2014, 191, 32-37.	3.8	49
142	Enzymatic Removal of Carboxyl Protecting Groups. 1. Cleavage of thetert-Butyl Moiety. Journal of Organic Chemistry, 2005, 70, 3737-3740.	3.2	48
143	Functional expression, purification, and characterization of the recombinant Baeyer-Villiger monooxygenase MekA from Pseudomonas veronii MEK700. Applied Microbiology and Biotechnology, 2008, 77, 1251-1260.	3.6	48
144	Enzymatic removal of 3â€monochloroâ€1,2â€propanediol (3â€MCPD) and its esters from oils. European Journal of Lipid Science and Technology, 2010, 112, 552-556.	1.5	48

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145	Switching the Regioselectivity of a Cyclohexanone Monooxygenase toward (+)-trans-Dihydrocarvone by Rational Protein Design. ACS Chemical Biology, 2016, 11, 38-43.	3.4	48
146	Enantioselectivity of a recombinant esterase from Pseudomonas fluorescens towards alcohols and carboxylic acids. Journal of Biotechnology, 1998, 60, 105-111.	3.8	47
147	Biocatalytic Access to Chiral Polyesters by an Artificial Enzyme Cascade Synthesis. ChemCatChem, 2015, 7, 3951-3955.	3.7	47
148	Protein-engineering of an amine transaminase for the stereoselective synthesis of a pharmaceutically relevant bicyclic amine. Organic and Biomolecular Chemistry, 2016, 14, 10249-10254.	2.8	47
149	Oxidative demethylation of algal carbohydrates by cytochrome P450 monooxygenases. Nature Chemical Biology, 2018, 14, 342-344.	8.0	47
150	Engineering Regioselectivity of a P450 Monooxygenase Enables the Synthesis of Ursodeoxycholic Acid via 7Î²â€Hydroxylation of Lithocholic Acid. Angewandte Chemie - International Edition, 2021, 60, 753-757.	13.8	47
151	Fluorophoric Assay for the High-Throughput Determination of Amidase Activity. Analytical Chemistry, 2003, 75, 255-260.	6.5	46
152	A New Route to Protected Acyloins and Their Enzymatic Resolution with Lipases. European Journal of Organic Chemistry, 2004, 2004, 1063-1074.	2.4	46
153	Efficient Biocatalysis with Immobilized Enzymes or Encapsulated Whole Cell Microorganism by Using the SpinChem Reactor System. ChemCatChem, 2013, 5, 3529-3532.	3.7	46
154	Two Subtle Amino Acid Changes in a Transaminase Substantially Enhance or Invert Enantiopreference in Cascade Syntheses. ChemBioChem, 2015, 16, 1041-1045.	2.6	46
155	Biocatalysis in the Recycling Landscape for Synthetic Polymers and Plastics towards Circular Textiles. ChemSusChem, 2021, 14, 4028-4040.	6.8	46
156	Marine Polysaccharides: Occurrence, Enzymatic Degradation and Utilization. ChemBioChem, 2021, 22, 2247-2256.	2.6	46
157	Synthesis of structured triglycerides from peanut oil with immobilized lipase. JAOCS, Journal of the American Oil Chemists' Society, 1997, 74, 427-433.	1.9	45
158	Co-expression of an alcohol dehydrogenase and a cyclohexanone monooxygenase for cascade reactions facilitates the regeneration of the NADPH cofactor. Enzyme and Microbial Technology, 2018, 108, 53-58.	3.2	45
159	Combination of the Suzukiâ€“Miyaura Crossâ€Coupling Reaction with Engineered Transaminases. Chemistry - A European Journal, 2018, 24, 16009-16013.	3.3	45
160	Activity and stability of lipase in the solid-phase glycerolysis of triolein. Enzyme and Microbial Technology, 1994, 16, 864-869.	3.2	44
161	Fatty acid vinyl esters as acylating agents: A new method for the enzymatic synthesis of monoacylglycerols. JAOCS, Journal of the American Oil Chemists' Society, 1995, 72, 193-197.	1.9	44
162	Directed Evolution of Enzymes. Angewandte Chemie - International Edition, 1998, 37, 3105-3108.	13.8	44

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