Uwe T Bornscheuer

List of Publications by Year in descending order

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Version: 2024-02-01

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	Enzyme Access Tunnel Engineering in Baeyerâ€Villiger Monooxygenases to Improve Oxidative Stability and Biocatalyst Performance. Advanced Synthesis and Catalysis, 2022, 364, 555-564.	4.3	11
2	A chemoenzymatic cascade with the potential to feed the world and allow humans to live in space. Engineering Microbiology, 2022, 2, 100006.	4.7	2
3	Efficient Siteâ€Selective Immobilization of Aldehydeâ€Tagged Peptides and Proteins by Knoevenagel Ligation. ChemCatChem, 2022, 14, .	3.7	6
4	Engineering and evaluation of thermostable IsPETase variants for PET degradation. Engineering in Life Sciences, 2022, 22, 192-203.	3.6	51
5	Computer Modeling Explains the Structural Reasons for the Difference in Reactivity of Amine Transaminases Regarding Prochiral Methylketones. International Journal of Molecular Sciences, 2022, 23, 777.	4.1	2
6	Biochemical and Structural Analysis of a Glucose-Tolerant Î²-Glucosidase from the Hemicellulose-Degrading Thermoanaerobacterium saccharolyticum. Molecules, 2022, 27, 290.	3.8	13
7	Algorithm-aided engineering of aliphatic halogenase WelO5* for the asymmetric late-stage functionalization of soraphens. Nature Communications, 2022, 13, 371.	12.8	38
8	Î±â€Dioxygenases (Î±â€DOXs): Promising biocatalysts for the environmentally friendly production of aroma compounds. ChemBioChem, 2022, , .	2.6	3
9	Mechanism-Based Design of Efficient PET Hydrolases. ACS Catalysis, 2022, 12, 3382-3396.	11.2	104
10	Discovery of Novel Tyrosine Ammonia Lyases for the Enzymatic Synthesis of pâ€Coumaric Acid. ChemBioChem, 2022, 23, .	2.6	8
11	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
12	Two novel cyanobacterial Î±-dioxygenases for the biosynthesis of fatty aldehydes. Applied Microbiology and Biotechnology, 2022, 106, 197-210.	3.6	4
13	Enzyme Kits to Facilitate the Integration of Biocatalysis into Organic Chemistry â€“ First Aid for Synthetic Chemists. ChemCatChem, 2022, 14, .	3.7	6
14	Enzyme cascade converting cyclohexanol into Îµâ€caprolactone coupled with NADPH recycling using surface displayed alcohol dehydrogenase and cyclohexanone monooxygenase on E.â€‰coli. Microbial Biotechnology, 2022, 15, 2235-2249.	4.2	4
15	Biosensor and chemo-enzymatic one-pot cascade applications to detect and transform PET-derived terephthalic acid in living cells. IScience, 2022, 25, 104326.	4.1	16
16	Connecting Algal Polysaccharide Degradation to Formaldehyde Detoxification. ChemBioChem, 2022, 23, .	2.6	3
17	Recovery of Hydroxytyrosol from Olive Mill Wastewater Using the Promiscuous Hydrolase/Acyltransferase PestE. ChemBioChem, 2022, 23, .	2.6	6
18	Recombinant <scp>l</scp>â€Amino Acid Oxidase with Broad Substrate Spectrum for Coâ€substrate Recycling in (S)â€Selective Transaminaseâ€Catalyzed Kinetic Resolutions. ChemBioChem, 2022, 23, .	2.6	5

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19	Thermophilic wholeâ€cell degradation of polyethylene terephthalate using engineered Clostridium thermocellum. Microbial Biotechnology, 2021, 14, 374-385.	4.2	106
20	Biocatalysis: Enzymatic Synthesis for Industrial Applications. Angewandte Chemie - International Edition, 2021, 60, 88-119.	13.8	711
21	Biokatalyse: Enzymatische Synthese fÃ¼r industrielle Anwendungen. Angewandte Chemie, 2021, 133, 89-123.	2.0	89
22	Entdeckung und Design promiskuitiver AcyltransferaseaktivitÃt in Carboxylesterasen der Familieâ€...VIII. Angewandte Chemie, 2021, 133, 2041-2045.	2.0	0
23	Discovery and Design of Familyâ€...VIII Carboxylesterases as Highly Efficient Acyltransferases. Angewandte Chemie - International Edition, 2021, 60, 2013-2017.	13.8	25
24	Modifikation der RegioselektivitÃt einer P450â€Monooxygenase ermÃ¶glicht die Synthese von UrsodeoxycholsÃure durch die 7Î²â€Hydroxylierung von LithocholsÃure. Angewandte Chemie, 2021, 133, 764-768.	2.0	1
25	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
26	Repositioning microbial biotechnology against COVIDâ€19: the case of microbial production of flavonoids. Microbial Biotechnology, 2021, 14, 94-110.	4.2	18
27	Kinetics Modeling of a Convergent Cascade Catalyzed by Monooxygenaseâ€“Alcohol Dehydrogenase Coupled Enzymes. Organic Process Research and Development, 2021, 25, 411-420.	2.7	4
28	Die gerichtete Evolution einer Halogenidâ€Methyltransferase erlaubt die biokatalytische Synthese diverser SAMâ€Analoga. Angewandte Chemie, 2021, 133, 1547-1551.	2.0	16
29	Directed Evolution of a Halide Methyltransferase Enables Biocatalytic Synthesis of Diverse SAM Analogs. Angewandte Chemie - International Edition, 2021, 60, 1524-1527.	13.8	54
30	Recent advances in (chemo)enzymatic cascades for upgrading bio-based resources. Chemical Communications, 2021, 57, 10661-10674.	4.1	28
31	Fluorimetric high-throughput screening method for polyester hydrolase activity using polyethylene terephthalate nanoparticles. Methods in Enzymology, 2021, 648, 253-270.	1.0	18
32	Recent trends in biocatalysis. Chemical Society Reviews, 2021, 50, 8003-8049.	38.1	175
33	Efficient Acylation of Sugars and Oligosaccharides in Aqueous Environment Using Engineered Acyltransferases. ACS Catalysis, 2021, 11, 2831-2836.	11.2	12
34	Biocatalysis in the Recycling Landscape for Synthetic Polymers and Plastics towards Circular Textiles. ChemSusChem, 2021, 14, 4028-4040.	6.8	46
35	Droplet microfluidics: From simple activity screening to sophisticated kinetics. CheM, 2021, 7, 835-838.	11.7	3
36	From Natural Methylation to Versatile Alkylations Using Halide Methyltransferases. ChemBioChem, 2021, 22, 2584-2590.	2.6	15

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37	FettsÃuren und FettsÃurederivate als nachwachsende PlattformmolekÃ¼le fÃ¼r die chemische Industrie. Angewandte Chemie, 2021, 133, 20304-20326.	2.0	11
38	Promiscuous Dehalogenase Activity of the Epoxide Hydrolase CorEH from Corynebacterium sp. C12. ACS Catalysis, 2021, 11, 6113-6120.	11.2	5
39	An ADH toolbox for raspberry ketone production from natural resources via a biocatalytic cascade. Applied Microbiology and Biotechnology, 2021, 105, 4189-4197.	3.6	6
40	Marine Polysaccharides: Occurrence, Enzymatic Degradation and Utilization. ChemBioChem, 2021, 22, 2247-2256.	2.6	46
41	Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry. Angewandte Chemie - International Edition, 2021, 60, 20144-20165.	13.8	114
42	Engineering theÂprotein dynamics of anÂancestral luciferase. Nature Communications, 2021, 12, 3616.	12.8	54
43	Entdeckung neuer bakterieller Chalconisomerasen durch eine Sequenzâ€Strukturâ€Funktionsâ€Evolutionsâ€Strategie fÃ¼r die enzymatische Synthese von (S)â€Flavanonen. Angewandte Chemie, 2021, 133, 17011-17016.	2.0	3
44	Discovery of Novel Bacterial Chalcone Isomerases by a Sequenceâ€Structureâ€Functionâ€Evolution Strategy for Enzymatic Synthesis of (S)â€Flavanones. Angewandte Chemie - International Edition, 2021, 60, 16874-16879.	13.8	12
45	Enzymatic degradation of polyethylene terephthalate nanoplastics analyzed in real time by isothermal titration calorimetry. Science of the Total Environment, 2021, 773, 145111.	8.0	37
46	Directed evolution of an amine transaminase for the synthesis of an Apremilast intermediate via kinetic resolution. Bioorganic and Medicinal Chemistry, 2021, 43, 116271.	3.0	6
47	LuxAB-Based Microbial Cell Factories for the Sensing, Manufacturing and Transformation of Industrial Aldehydes. Catalysts, 2021, 11, 953.	3.5	7
48	Rational Design for Enhanced Acyltransferase Activity in Water Catalyzed by the Pyrobaculum calidifontis VA1 Esterase. Microorganisms, 2021, 9, 1790.	3.6	8
49	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. Environmental Sciences Europe, 2021, 33, 99.	5.5	33
50	Chemoâ€Biological Upcycling of Poly(ethylene terephthalate) to Multifunctional Coating Materials. ChemSusChem, 2021, 14, 4251-4259.	6.8	36
51	Asymmetric Cationâ€Olefin Monocyclization by Engineered Squaleneâ€“Hopene Cyclases. Angewandte Chemie - International Edition, 2021, 60, 26080-26086.	13.8	16
52	Asymmetric Cationâ€Olefin Monocyclization by Engineered Squaleneâ€“Hopene Cyclases. Angewandte Chemie, 2021, 133, 26284.	2.0	1
53	A new carbohydrate-active oligosaccharide dehydratase is involved in the degradation of ulvan. Journal of Biological Chemistry, 2021, 297, 101210.	3.4	8
54	Biotechnological Production and Sensory Evaluation of Ï‰1-Unsaturated Aldehydes. Journal of Agricultural and Food Chemistry, 2021, 69, 345-353.	5.2	7

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55	Pinene-Based Oxidative Synthetic Toolbox for Scalable Polyester Synthesis. Jacs Au, 2021, 1, 1949-1960.	7.9	13
56	Titelbild: Asymmetric Cationâ€Olefin Monocyclization by Engineered Squaleneâ€“Hopene Cyclases (Angew.) Tj ETQq0 0 0 rgBT /Overloc	2.0	0
57	Recent Insights and Future Perspectives on Promiscuous Hydrolases/Acyltransferases. ACS Catalysis, 2021, 11, 14906-14915.	11.2	19
58	Enhancement of Lipase CALâ€A Selectivity by Protein Engineering for the Hydrolysis of Erucic Acid from Crambe Oil. European Journal of Lipid Science and Technology, 2020, 122, 1900115.	1.5	8
59	Targeted Enzyme Engineering Unveiled Unexpected Patterns of Halogenase Stabilization. ChemCatChem, 2020, 12, 818-831.	3.7	28
60	JeffamineÂ® EDâ€600: a polyether amine donor for enzymatic transamination in organic solvent/solventâ€free medium with membraneâ€assisted product extraction. Journal of Chemical Technology and Biotechnology, 2020, 95, 604-613.	3.2	3
61	A whole-cell process for the production of Îµ-caprolactone in aqueous media. Process Biochemistry, 2020, 88, 22-30.	3.7	18
62	Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. Catalysis Science and Technology, 2020, 10, 46-64.	4.1	38
63	An Ultrasensitive Fluorescence Assay for the Detection of Halides and Enzymatic Dehalogenation. ChemCatChem, 2020, 12, 2032-2039.	3.7	9
64	Threeâ€liquidâ€phase Spinning Reactor for the Transaminaseâ€catalyzed Synthesis and Recovery of a Chiral Amine. ChemCatChem, 2020, 12, 1288-1291.	3.7	3
65	Possibilities and limitations of biotechnological plastic degradation and recycling. Nature Catalysis, 2020, 3, 867-871.	34.4	233
66	Baeyer-Villiger monooxygenases: From protein engineering to biocatalytic applications. The Enzymes, 2020, 47, 231-281.	1.7	14
67	A Biocatalytic Cascade Reaction to Access a Valuable Longâ€Chain Ï‰â€Hydroxy Fatty Acid. ChemCatChem, 2020, 12, 4084-4089.	3.7	2
68	Protein Engineering for Enhanced Acyltransferase Activity, Substrate Scope, and Selectivity of the Mycobacterium smegmatis Acyltransferase MsAcT. ACS Catalysis, 2020, 10, 7552-7562.	11.2	35
69	Glycoside hydrolase (PelAh) immobilization prevents Pseudomonas aeruginosa biofilm formation on cellulose-based wound dressing. Carbohydrate Polymers, 2020, 246, 116625.	10.2	24
70	Highly selective bile acid hydroxylation by the multifunctional bacterial P450 monooxygenase CYP107D1 (OleP). Biotechnology Letters, 2020, 42, 819-824.	2.2	14
71	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
72	Wholeâ€Cell Photoenzymatic Cascades to Synthesize Longâ€Chain Aliphatic Amines and Esters from Renewable Fatty Acids. Angewandte Chemie, 2020, 132, 7090-7094.	2.0	22

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73	Creation of (R)-Amine Transaminase Activity within an Î±-Amino Acid Transaminase Scaffold. ACS Chemical Biology, 2020, 15, 416-424.	3.4	24
74	Folding Assessment of Incorporation of Noncanonical Amino Acids Facilitates Expansion of Functionalâ€Group Diversity for Enzyme Engineering. Chemistry - A European Journal, 2020, 26, 12338-12342.	3.3	7
75	Sequenceâ€Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. Angewandte Chemie, 2020, 132, 11704-11709.	2.0	13
76	Sequenceâ€Based Prediction of Promiscuous Acyltransferase Activity in Hydrolases. Angewandte Chemie - International Edition, 2020, 59, 11607-11612.	13.8	40
77	Influence of Substrate Binding Residues on the Substrate Scope and Regioselectivity of a Plant O â€Methyltransferase against Flavonoids. ChemCatChem, 2020, 12, 3721-3727.	3.7	9
78	Maghemite nanoparticles stabilize the protein corona formed with transferrin presenting different iron-saturation levels. Nanoscale, 2019, 11, 16063-16070.	5.6	22
79	A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. Nature Chemical Biology, 2019, 15, 803-812.	8.0	97
80	A multi-enzyme cascade reaction for the production of 6-hydroxyhexanoic acid. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2019, 74, 71-76.	1.4	22
81	A Novel High-Throughput Assay Enables the Direct Identification of Acyltransferases. Catalysts, 2019, 9, 64.	3.5	14
82	Gerichtete Evolution ermÃ¶glicht das Design von maÃŸgeschneiderten Proteinen zur nachhaltigen Produktion von Chemikalien und Pharmazeutika. Angewandte Chemie, 2019, 131, 36-41.	2.0	19
83	Specific Residues Expand the Substrate Scope and Enhance the Regioselectivity of a Plant O â€Methyltransferase. ChemCatChem, 2019, 11, 3227-3233.	3.7	10
84	Random Mutagenesisâ€Driven Improvement of Carboxylate Reductase Activity using an Amino Benzamidoximeâ€Mediated Highâ€Throughput Assay. Advanced Synthesis and Catalysis, 2019, 361, 2544-2549.	4.3	31
85	Substrateâ€Independent Highâ€Throughput Assay for the Quantification of Aldehydes. Advanced Synthesis and Catalysis, 2019, 361, 2538.	4.3	29
86	Structure of the plastic-degrading Ideonella sakaiensis MHETase bound to a substrate. Nature Communications, 2019, 10, 1717.	12.8	265
87	Application of novel High Molecular Weight amine donors in chiral amine synthesis facilitates integrated downstream processing and provides in situ product recovery opportunities. Process Biochemistry, 2019, 80, 17-25.	3.7	7
88	A Retroâ€biosynthesisâ€Based Route to Generate Pineneâ€Derived Polyesters. ChemBioChem, 2019, 20, 1664-1671.	2.6	21
89	(Chemo-) enzymatic cascade reactions. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2019, 74, 61-62.	1.4	1
90	Strategies for enriching erucic acid from Crambe abyssinica oil by improved Candida antarctica lipase A variants. Process Biochemistry, 2019, 79, 65-73.	3.7	18

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91	How To Break the Janus Effect of H₂O₂ in Biocatalysis? Understanding Inactivation Mechanisms To Generate more Robust Enzymes. ACS Catalysis, 2019, 9, 2916-2921.	11.2	18
92	Enrichment of Erucic and Gondoic Fatty Acids fromCrambeandCamelinaOils Catalyzed byGeotrichum candidumLipases I and II. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 1327-1335.	1.9	5
93	Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation. Nature Communications, 2019, 10, 5581.	12.8	89
94	Oneâ€Pot Bioconversion of <scp>l</scp>â€Arabinose to <scp>l</scp>â€Ribulose in an Enzymatic Cascade. Angewandte Chemie - International Edition, 2019, 58, 2428-2432.	13.8	30
95	Biocatalytic Production of Amino Carbohydrates through Oxidoreductase and Transaminase Cascades. ChemSusChem, 2019, 12, 848-857.	6.8	32
96	Enzyme Cascade Reactions for the Biosynthesis of Long Chain Aliphatic Amines from Renewable Fatty Acids. Advanced Synthesis and Catalysis, 2019, 361, 1359-1367.	4.3	25
97	Oneâ€Pot Bioconversion of <scp>l</scp>â€Arabinose to <scp>l</scp>â€Ribulose in an Enzymatic Cascade. Angewandte Chemie, 2019, 131, 2450-2454.	2.0	5
98	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
99	Biocatalytic Cascade Reaction for the Asymmetric Synthesis of Lâ€and Dâ€Homoalanine. ChemCatChem, 2019, 11, 407-411.	3.7	21
100	Oxidative demethylation of algal carbohydrates by cytochrome P450 monooxygenases. Nature Chemical Biology, 2018, 14, 342-344.	8.0	47
101	Getting Momentum: From Biocatalysis to Advanced Synthetic Biology. Trends in Biochemical Sciences, 2018, 43, 180-198.	7.5	70
102	Enzymes in Lipid Modification. Annual Review of Food Science and Technology, 2018, 9, 85-103.	9.9	75
103	Enzymatically Modified Shea Butter and Palm Kernel Oil as Potential Lipid Drug Delivery Matrices. European Journal of Lipid Science and Technology, 2018, 120, 1700332.	1.5	6
104	Opportunities and challenges for combining chemo- and biocatalysis. Nature Catalysis, 2018, 1, 12-22.	34.4	479
105	Asymmetric Synthesis of Chiral Halogenated Amines using Amine Transaminases. ChemCatChem, 2018, 10, 951-955.	3.7	24
106	Library Growth and Protein Expression: Optimal and Reproducible Microtiter Plate Expression of Recombinant Enzymes in E. coli Using MTP Shakers. Methods in Molecular Biology, 2018, 1685, 145-156.	0.9	0
107	Solid-Phase Agar Plate Assay for Screening Amine Transaminases. Methods in Molecular Biology, 2018, 1685, 283-296.	0.9	1
108	Normalized Screening of Protein Engineering Libraries by Split-GFP Crude Cell Extract Quantification. Methods in Molecular Biology, 2018, 1685, 157-170.	0.9	5

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109	Baeyer-Villiger monooxygenases from Yarrowia lipolytica catalyze preferentially sulfoxidations. Enzyme and Microbial Technology, 2018, 109, 31-42.	3.2	25
110	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
111	Hot spots for the protein engineering of Baeyer-Villiger monooxygenases. Biotechnology Advances, 2018, 36, 247-263.	11.7	68
112	Simultaneous detection of NADPH consumption and H2O2 production using the Amplifluâ„¢ Red assay for screening of P450 activities and uncoupling. Applied Microbiology and Biotechnology, 2018, 102, 985-994.	3.6	35
113	The fourth wave of biocatalysis is approaching. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170063.	3.4	108
114	Biocompatible metal-assisted Câ€“C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. Chemical Communications, 2018, 54, 12978-12981.	4.1	26
115	Specificity and mechanism of carbohydrate demethylation by cytochrome P450 monooxygenases. Biochemical Journal, 2018, 475, 3875-3886.	3.7	11
116	In Silico Based Engineering Approach to Improve Transaminases for the Conversion of Bulky Substrates. ACS Catalysis, 2018, 8, 11524-11533.	11.2	39
117	Combination of the Suzukiâ€“Miyaura Crossâ€Coupling Reaction with Engineered Transaminases. Chemistry - A European Journal, 2018, 24, 16009-16013.	3.3	45
118	Isopropylamine as Amine Donor in Transaminaseâ€Catalyzed Reactions: Better Acceptance through Reaction and Enzyme Engineering. ChemCatChem, 2018, 10, 3943-3949.	3.7	41
119	Enzymes in Lipid Modification: An Overview. , 2018, , 1-9.		8
120	Protein Engineering of the Progesterone Hydroxylating P450â€Monooxygenase CYP17A1 Alters Its Regioselectivity. ChemBioChem, 2018, 19, 1954-1958.	2.6	8
121	Î²-Phenylalanine Ester Synthesis from Stable Î²-Keto Ester Substrate Using Engineered Ï‰-Transaminases. Molecules, 2018, 23, 1211.	3.8	14
122	Alteration of Chain Length Selectivity of Candida antarctica Lipase A by Semiâ€Rational Design for the Enrichment of Erucic and Gondoic Fatty Acids. Advanced Synthesis and Catalysis, 2018, 360, 4115-4131.	4.3	36
123	Biochemical characterization of an ulvan lyase from the marine flavobacterium Formosa agariphila KMM 3901T. Applied Microbiology and Biotechnology, 2018, 102, 6987-6996.	3.6	41
124	Program-Guided Design of High-Throughput Enzyme Screening Experiments and Automated Data Analysis/Evaluation. Methods in Molecular Biology, 2018, 1685, 269-282.	0.9	0
125	Fusion proteins of an enoate reductase and a Baeyer-Villiger monooxygenase facilitate the synthesis of chiral lactones. Biological Chemistry, 2017, 398, 31-37.	2.5	29
126	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

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127	Kinetic insights into Ïµâ€caprolactone synthesis: Improvement of an enzymatic cascade reaction. Biotechnology and Bioengineering, 2017, 114, 1215-1221.	3.3	50
128	An alternative approach towards poly-Îµ-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
129	Catalysis at the Heart of Success!. ChemCatChem, 2017, 9, 6-9.	3.7	2
130	Controlling the Regioselectivity of Baeyerâ€“Villiger Monooxygenases by Mutation of Activeâ€Site Residues. ChemBioChem, 2017, 18, 1627-1638.	2.6	38
131	NewProt â€“ a protein engineering portal. Protein Engineering, Design and Selection, 2017, 30, 441-447.	2.1	11
132	Diastereoselective Hydrolysis of Branched Malonate Diesters by Porcine Liver Esterase: Synthesis of 5â€Benzylâ€Substituted C^{Î±}â€Methylâ€Î²â€proline and Catalytic Evaluation. European Journal of Organic Chemistry, 2017, 2017, 3009-3016.	2.4	4
133	Kinetic Modeling of an Enzymatic Redox Cascade Inâ€...Vivo Reveals Bottlenecks Caused by Cofactors. ChemCatChem, 2017, 9, 3420-3427.	3.7	23
134	A Microtiter Plate-Based Assay to Screen for Active and Stereoselective Hydrolytic Enzymes in Enzyme Libraries. Methods in Molecular Biology, 2017, 1539, 197-204.	0.9	3
135	A Retrosynthesis Approach for Biocatalysis in Organic Synthesis. Chemistry - A European Journal, 2017, 23, 12040-12063.	3.3	171
136	Multiple States of Nitrile Hydratase from Rhodococcus equi TG328-2: Structural and Mechanistic Insights from Electron Paramagnetic Resonance and Density Functional Theory Studies. Biochemistry, 2017, 56, 3068-3077.	2.5	9
137	Amine Transaminase Engineering for Spatially Bulky Substrate Acceptance. ChemBioChem, 2017, 18, 1022-1026.	2.6	41
138	First chemo-enzymatic synthesis of the (R)-Taniguchi lactone and substrate profiles of CAMO and OTEMO, two new Baeyerâ€“Villiger monooxygenases. Monatshefte FÃ¼r Chemie, 2017, 148, 157-165.	1.8	16
139	Biotransformation and reduction of estrogenicity of bisphenol A by the biphenyl-degrading Cupriavidus basilensis. Applied Microbiology and Biotechnology, 2017, 101, 3743-3758.	3.6	16
140	A Systematic Analysis of the Substrate Scope of (S)â€and (R)â€Selective Amine Transaminases. Advanced Synthesis and Catalysis, 2017, 359, 4235-4243.	4.3	21
141	Asymmetric synthesis of serinol-monoesters catalyzed by amine transaminases. Tetrahedron: Asymmetry, 2017, 28, 1183-1187.	1.8	8
142	Frontispiece: A Retrosynthesis Approach for Biocatalysis in Organic Synthesis. Chemistry - A European Journal, 2017, 23, .	3.3	0
143	Bioinformatic analysis of fold-type III PLP-dependent enzymes discovers multimeric racemases. Applied Microbiology and Biotechnology, 2017, 101, 1499-1507.	3.6	4
144	Process Development through Solvent Engineering in the Biocatalytic Synthesis of the Heterocyclic Bulk Chemical Îµâ€Caprolactone. Journal of Heterocyclic Chemistry, 2017, 54, 391-396.	2.6	20

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145	Alkene hydrogenation activity of enoate reductases for an environmentally benign biosynthesis of adipic acid. Chemical Science, 2017, 8, 1406-1413.	7.4	77
146	CorNet: Assigning function to networks of co-evolving residues by automated literature mining. PLoS ONE, 2017, 12, e0176427.	2.5	12
147	Evolving Enzymes for Biocatalysis. , 2017, , 271-287.		0
148	Fully automatized highâ€throughput enzyme library screening using a robotic platform. Biotechnology and Bioengineering, 2016, 113, 1421-1432.	3.3	77
149	3â€²-UTR engineering to improve soluble expression and fine-tuning of activity of cascade enzymes in Escherichia coli. Scientific Reports, 2016, 6, 29406.	3.3	18
150	Handing over a safe sailing boat. European Journal of Lipid Science and Technology, 2016, 118, 1799-1799.	1.5	0
151	A radical change in enzyme catalysis. Nature, 2016, 540, 345-346.	27.8	19
152	Evolving Enzymes for Biocatalysis. , 2016, , 1-17.		4
153	Biokatalyse: ein erfolgreicher Blick Ã¼ber den Tellerrand. Angewandte Chemie, 2016, 128, 4446-4447.	2.0	6
154	Fast, Continuous, and High-Throughput (Bio)Chemical Activity Assay forN-Acyl-<scp>l</scp>-Homoserine Lactone Quorum-Quenching Enzymes. Applied and Environmental Microbiology, 2016, 82, 4145-4154.	3.1	11
155	A Fedâ€Batch Synthetic Strategy for a Threeâ€Step Enzymatic Synthesis of Polyâ€ïµâ€caprolactone. ChemCatChem, 2016, 8, 3446-3452.	3.7	50
156	Switch in Cofactor Specificity of a Baeyerâ€“Villiger Monooxygenase. ChemBioChem, 2016, 17, 2312-2315.	2.6	42
157	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
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