Sebastian Bartsch

List of Publications by Year
in descending order

23	1,072	430874 18	526287 27
papers	citations	h-index	g-index

30	30	30	1047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of Alcohol Dehydrogenase for Industrial Scale Oxidation of Lactols. Biotechnology Journal, 2020, 15, e2000171.	3.5	10
2	Approaching boiling point stability of an alcohol dehydrogenase through computationally-guided enzyme engineering. ELife, 2020, 9, .	6.0	33
3	Room-temperature solid phase ionic liquid (RTSPIL) coated Ï‰-transaminases: Development and application in organic solvents. Molecular Catalysis, 2018, 452, 11-19.	2.0	9
4	Synthesis of Sebacic Acid Using a Deâ€…Novo Designed Retroâ€Aldolase as a Key Catalyst. ChemCatChem, 2017, 9, 1378-1382.	3.7	14
5	Three in One: Temperature, Solvent and Catalytic Stability by Engineering the Cofactorâ€Binding Element of Amine Transaminase. ChemBioChem, 2017, 18, 1482-1486.	2.6	34
6	Explaining Operational Instability of Amine Transaminases: Substrate-Induced Inactivation Mechanism and Influence of Quaternary Structure on Enzymeâ€“Cofactor Intermediate Stability. ACS Catalysis, 2017, 7, 1259-1269.	11.2	54
7	Enzymatic network for production of ether amines from alcohols. Biotechnology and Bioengineering, 2016, 113, 1853-1861.	3.3	23
8	Ironing out Their Differences: Dissecting the Structural Determinants of a Phenylalanine Aminomutase and Ammonia Lyase. ACS Chemical Biology, 2015, 10, 989-997.	3.4	23
9	Redesign of a Phenylalanine Aminomutase into a Phenylalanine Ammonia Lyase. ChemCatChem, 2013, 5, 1797-1802.	3.7	27
10	Priming ammonia lyases and aminomutases for industrial and therapeutic applications. Current Opinion in Chemical Biology, 2013, 17, 250-260.	6.1	85
11	Biochemical Properties and Crystal Structure of a Î²-Phenylalanine Aminotransferase from Variovorax paradoxus. Applied and Environmental Microbiology, 2013, 79, 185-195.	3.1	29
12	Mechanismâ€Inspired Engineering of Phenylalanine Aminomutase for Enhanced Î²â€Regioselective Asymmetric Amination of Cinnamates. Angewandte Chemie - International Edition, 2012, 51, 482-486.	13.8	48
13	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
14	The Î±/Î²â€Hydrolase Fold 3DM Database (ABHDB) as a Tool for Protein Engineering. ChemBioChem, 2010, 11, 1635-1643.	2.6	126
15	Einfluss einer einzelnen AminosÃure auf den Reaktionsmechanismus von Ammonium-Lyasen und -Mutasen. Angewandte Chemie, 2010, 122, 3951-3951.	2.0	3
16	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
17	Probing the enantioselectivity of Bacillus subtilis esterase BS2 for tert. alcohols. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 82-86.	1.8	16
18	Bacillus subtilis Esterase (BS2) and its Double Mutant Have Different Selectivity in the Removal of Carboxyl Protecting Groups. Advanced Synthesis and Catalysis, 2009, 351, 2325-2332.	4.3	10

#	Article	IF	Citations
19	A Single Residue Influences the Reaction Mechanism of Ammonia Lyases and Mutases. Angewandte Chemie - International Edition, 2009, 48, 3362-3365.	13.8	53
20	Recovery of choline oxidase activity by in vitro recombination of individual segments. Applied Microbiology and Biotechnology, 2008, 81, 275-282.	3.6	3
21	Understanding Promiscuous Amidase Activity of an Esterase from Bacillus subtilis. ChemBioChem, 2008, 9, 67-69.	2.6	58
22	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
23	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