## Sebastian Bartsch

List of Publications by Year in descending order

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430874 526287 1,072 23 18 27 citations g-index h-index papers 30 30 30 1047 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Complete Inversion of Enantioselectivity towards Acetylated Tertiary Alcohols by a Double Mutant of a <i>Bacillus Subtilis</i> Esterase. Angewandte Chemie - International Edition, 2008, 47, 1508-1511.	13.8	143
2	The α/βâ€Hydrolase Fold 3DM Database (ABHDB) as a Tool for Protein Engineering. ChemBioChem, 2010, 11, 1635-1643.	2.6	126
3	Priming ammonia lyases and aminomutases for industrial and therapeutic applications. Current Opinion in Chemical Biology, 2013, 17, 250-260.	6.1	85
4	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
5	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
6	Understanding Promiscuous Amidase Activity of an Esterase from <i>Bacillus subtilis</i> ChemBioChem, 2008, 9, 67-69.	2.6	58
7	Explaining Operational Instability of Amine Transaminases: Substrate-Induced Inactivation Mechanism and Influence of Quaternary Structure on Enzyme–Cofactor Intermediate Stability. ACS Catalysis, 2017, 7, 1259-1269.	11.2	54
8	A Single Residue Influences the Reaction Mechanism of Ammonia Lyases and Mutases. Angewandte Chemie - International Edition, 2009, 48, 3362-3365.	13.8	53
9	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
10	Mechanismâ€Inspired Engineering of Phenylalanine Aminomutase for Enhanced βâ€Regioselective Asymmetric Amination of Cinnamates. Angewandte Chemie - International Edition, 2012, 51, 482-486.	13.8	48
11	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
12	Approaching boiling point stability of an alcohol dehydrogenase through computationally-guided enzyme engineering. ELife, 2020, 9, .	6.0	33
13	Biochemical Properties and Crystal Structure of a $\hat{l}^2$ -Phenylalanine Aminotransferase from Variovorax paradoxus. Applied and Environmental Microbiology, 2013, 79, 185-195.	3.1	29
14	Redesign of a Phenylalanine Aminomutase into a Phenylalanine Ammonia Lyase. ChemCatChem, 2013, 5, 1797-1802.	3.7	27
15	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
16	Enzymatic network for production of ether amines from alcohols. Biotechnology and Bioengineering, 2016, 113, 1853-1861.	3.3	23
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	Synthesis of Sebacic Acid Using a Deâ€Novo Designed Retroâ€Aldolase as a Key Catalyst. ChemCatChem, 2017, 9, 1378-1382.	3.7	14

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19	<i>Bacillus subtilis</i> 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
20	Optimization of Alcohol Dehydrogenase for Industrial Scale Oxidation of Lactols. Biotechnology Journal, 2020, 15, e2000171.	3.5	10
21	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
22	Recovery of choline oxidase activity by in vitro recombination of individual segments. Applied Microbiology and Biotechnology, 2008, 81, 275-282.	3.6	3
23	Einfluss einer einzelnen Aminosäre auf den Reaktionsmechanismus von Ammonium-Lyasen und -Mutasen. Angewandte Chemie, 2010, 122, 3951-3951.	2.0	3