

Dominique BÄttcher

List of Publications by Year in descending order

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27
papers

1,001
citations

623734

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docs citations

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times ranked

1300
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering and evaluation of thermostable <i>Is</i> PETase variants for PET degradation. <i>Engineering in Life Sciences</i> , 2022, 22, 192-203.	3.6	51
2	An ADH toolbox for raspberry ketone production from natural resources via a biocatalytic cascade. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 4189-4197.	3.6	6
3	Targeted Enzyme Engineering Unveiled Unexpected Patterns of Halogenase Stabilization. <i>ChemCatChem</i> , 2020, 12, 818-831.	3.7	28
4	A Biocatalytic Cascade Reaction to Access a Valuable Long-Chain ω -Hydroxy Fatty Acid. <i>ChemCatChem</i> , 2020, 12, 4084-4089.	3.7	2
5	Glycoside hydrolase (PelA _h) immobilization prevents <i>Pseudomonas aeruginosa</i> biofilm formation on cellulose-based wound dressing. <i>Carbohydrate Polymers</i> , 2020, 246, 116625.	10.2	24
6	Maghemite nanoparticles stabilize the protein corona formed with transferrin presenting different iron-saturation levels. <i>Nanoscale</i> , 2019, 11, 16063-16070.	5.6	22
7	A multi-enzyme cascade reaction for the production of 6-hydroxyhexanoic acid. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2019, 74, 71-76.	1.4	22
8	Structure of the plastic-degrading <i>Ideonella sakaiensis</i> MHETase bound to a substrate. <i>Nature Communications</i> , 2019, 10, 1717.	12.8	265
9	Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation. <i>Nature Communications</i> , 2019, 10, 5581.	12.8	89
10	Co-expression of an alcohol dehydrogenase and a cyclohexanone monooxygenase for cascade reactions facilitates the regeneration of the NADPH cofactor. <i>Enzyme and Microbial Technology</i> , 2018, 108, 53-58.	3.2	45
11	Simultaneous detection of NADPH consumption and H ₂ O ₂ production using the Amplifluor [®] Red assay for screening of P450 activities and uncoupling. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 985-994.	3.6	35
12	Protein Engineering of the Progesterone Hydroxylating P450-Monooxygenase CYP17A1 Alters Its Regioselectivity. <i>ChemBioChem</i> , 2018, 19, 1954-1958.	2.6	8
13	A Microtiter Plate-Based Assay to Screen for Active and Stereoselective Hydrolytic Enzymes in Enzyme Libraries. <i>Methods in Molecular Biology</i> , 2017, 1539, 197-204.	0.9	3
14	Fully automatized high-throughput enzyme library screening using a robotic platform. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1421-1432.	3.3	77
15	Enzymatic Cleavage of Aryl Acetates. <i>ChemCatChem</i> , 2016, 8, 2853-2857.	3.7	1
16	A selection assay for haloalkane dehalogenase activity based on toxic substrates. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8955-8962.	3.6	10
17	Plasma-Modified Polypropylene as Carrier for the Immobilization of <i>Candida antarctica</i> Lipase and <i>Pyrobaculum calidifontis</i> Esterase. <i>ChemCatChem</i> , 2010, 2, 992-996.	3.7	11
18	Production of pig liver esterase in batch fermentation of <i>E. coli</i> Origami. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 1337-1344.	3.6	15

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19	Screens for Active and Stereoselective Hydrolytic Enzymes. <i>Methods in Molecular Biology</i> , 2010, 668, 169-176.	0.9	6
20	Protein engineering of microbial enzymes. <i>Current Opinion in Microbiology</i> , 2010, 13, 274-282.	5.1	112
21	Insights into the physiological role of pig liver esterase: Isoenzymes show differences in the demethylation of prenylated proteins. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7878-7883.	3.0	13
22	Asymmetric synthesis of cis-3,5-diacetoxycyclopent-1-ene using metagenome-derived hydrolases. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 730-732.	1.8	9
23	Isoenzymes of Pig Liver Esterase Reveal Striking Differences in Enantioselectivities. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8492-8494.	13.8	50
24	Functional expression of the β -isoenzyme of pig liver carboxyl esterase in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1282-1289.	3.6	38
25	High-throughput screening of activity and enantioselectivity of esterases. <i>Nature Protocols</i> , 2006, 1, 2340-2343.	12.0	17
26	Synthesis of (tetrahydrofuran-2-yl)acetates based on a α -cyclization/hydrogenation/enzymatic kinetic resolution strategy. <i>Tetrahedron</i> , 2006, 62, 7132-7139.	1.9	15
27	Enantioselective synthesis of 2-alkylidene tetrahydrofurans based on a α -cyclization/enzymatic kinetic resolution strategy. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 892-899.	1.8	12