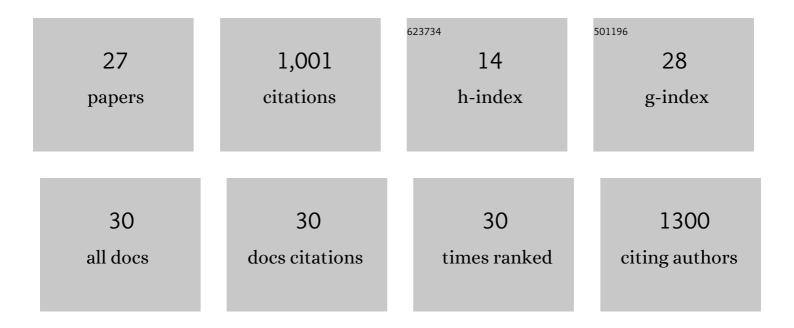
## Dominique Böttcher

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structure of the plastic-degrading Ideonella sakaiensis MHETase bound to a substrate. Nature Communications, 2019, 10, 1717.	12.8	265
2	Protein engineering of microbial enzymes. Current Opinion in Microbiology, 2010, 13, 274-282.	5.1	112
3	Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation. Nature Communications, 2019, 10, 5581.	12.8	89
4	Fully automatized highâ€ŧhroughput enzyme library screening using a robotic platform. Biotechnology and Bioengineering, 2016, 113, 1421-1432.	3.3	77
5	Engineering and evaluation of thermostable <i>ls</i> PETase variants for PET degradation. Engineering in Life Sciences, 2022, 22, 192-203.	3.6	51
6	Isoenzymes of Pigâ€Liver Esterase Reveal Striking Differences in Enantioselectivities. Angewandte Chemie - International Edition, 2007, 46, 8492-8494.	13.8	50
7	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
8	Functional expression of the γ-isoenzyme of pig liver carboxyl esterase in Escherichia coli. Applied Microbiology and Biotechnology, 2007, 73, 1282-1289.	3.6	38
9	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
10	Targeted Enzyme Engineering Unveiled Unexpected Patterns of Halogenase Stabilization. ChemCatChem, 2020, 12, 818-831.	3.7	28
11	Glycoside hydrolase (PelAh) immobilization prevents Pseudomonas aeruginosa biofilm formation on cellulose-based wound dressing. Carbohydrate Polymers, 2020, 246, 116625.	10.2	24
12	Maghemite nanoparticles stabilize the protein corona formed with transferrin presenting different iron-saturation levels. Nanoscale, 2019, 11, 16063-16070.	5.6	22
13	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
14	High-throughput screening of activity and enantioselectivity of esterases. Nature Protocols, 2006, 1, 2340-2343.	12.0	17
15	Synthesis of (tetrahydrofuran-2-yl)acetates based on a â€~cyclization/hydrogenation/enzymatic kinetic resolution' strategy. Tetrahedron, 2006, 62, 7132-7139.	1.9	15
16	Production of pig liver esterase in batch fermentation of E. coli Origami. Applied Microbiology and Biotechnology, 2010, 86, 1337-1344.	3.6	15
17	Insights into the physiological role of pig liver esterase: Isoenzymes show differences in the demethylation of prenylated proteins. Bioorganic and Medicinal Chemistry, 2009, 17, 7878-7883.	3.0	13
18	Enantioselective synthesis of 2-alkylidenetetrahydrofurans based on a â€~cyclization/enzymatic resolution' strategy. Tetrahedron: Asymmetry, 2006, 17, 892-899.	1.8	12

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#	Article	IF	CITATIONS
19	Plasmaâ€Modified Polypropylene as Carrier for the Immobilization of <i>Candida antarctica</i> Lipaseâ€B and <i>Pyrobaculum calidifontis</i> Esterase. ChemCatChem, 2010, 2, 992-996.	3.7	11
20	A selection assay for haloalkane dehalogenase activity based on toxic substrates. Applied Microbiology and Biotechnology, 2015, 99, 8955-8962.	3.6	10
21	Asymmetric synthesis of cis-3,5-diacetoxycyclopent-1-ene using metagenome-derived hydrolases. Tetrahedron: Asymmetry, 2008, 19, 730-732.	1.8	9
22	Protein Engineering of the Progesterone Hydroxylating P450â€Monooxygenase CYP17A1 Alters Its Regioselectivity. ChemBioChem, 2018, 19, 1954-1958.	2.6	8
23	Screens for Active and Stereoselective Hydrolytic Enzymes. Methods in Molecular Biology, 2010, 668, 169-176.	0.9	6
24	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
25	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
26	A Biocatalytic Cascade Reaction to Access a Valuable Longâ€Chain ωâ€Hydroxy Fatty Acid. ChemCatChem, 2020, 12, 4084-4089.	3.7	2
27	Enzymatic Cleavage of Aryl Acetates. ChemCatChem, 2016, 8, 2853-2857.	3.7	1