

Bastian VÃ¶geli

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

691
citations

567281

15
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivalent designed proteins neutralize SARS-CoV-2 variants of concern and confer protection against infection in mice. <i>Science Translational Medicine</i> , 2022, 14, eabn1252.	12.4	68
2	A critical comparison of cellular and cell-free bioproduction systems. <i>Current Opinion in Biotechnology</i> , 2019, 60, 221-229.	6.6	67
3	Awakening a latent carbon fixation cycle in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2020, 11, 5812.	12.8	64
4	A Chemo-Enzymatic Road Map to the Synthesis of CoA Esters. <i>Molecules</i> , 2016, 21, 517.	3.8	54
5	Toward sustainable, cell-free biomanufacturing. <i>Current Opinion in Biotechnology</i> , 2021, 69, 136-144.	6.6	46
6	Archaeal acetoacetyl-CoA thiolase/HMG-CoA synthase complex channels the intermediate via a fused CoA-binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3380-3385.	7.1	44
7	Four amino acids define the CO ₂ binding pocket of enoyl-CoA carboxylases/reductases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13964-13969.	7.1	38
8	“Negative” and “positive catalysis”: complementary principles that shape the catalytic landscape of enzymes. <i>Current Opinion in Chemical Biology</i> , 2018, 47, 94-100.	6.1	36
9	The multicatalytic compartment of propionyl-CoA synthase sequesters a toxic metabolite. <i>Nature Chemical Biology</i> , 2018, 14, 1127-1132.	8.0	34
10	Cell-Free Exploration of the Natural Product Chemical Space. <i>ChemBioChem</i> , 2021, 22, 84-91.	2.6	32
11	The use of ene adducts to study and engineer enoyl-thioester reductases. <i>Nature Chemical Biology</i> , 2015, 11, 398-400.	8.0	27
12	Cell-free prototyping enables implementation of optimized reverse β^2 -oxidation pathways in heterotrophic and autotrophic bacteria. <i>Nature Communications</i> , 2022, 13, .	12.8	27
13	Combining Promiscuous Acyl-CoA Oxidase and Enoyl-CoA Carboxylase/Reductases for Atypical Polyketide Extender Unit Biosynthesis. <i>Cell Chemical Biology</i> , 2018, 25, 833-839.e4.	5.2	23
14	A common approach for absolute quantification of short chain CoA thioesters in prokaryotic and eukaryotic microbes. <i>Microbial Cell Factories</i> , 2020, 19, 160.	4.0	21
15	A conserved threonine prevents self-intoxication of enoyl-thioester reductases. <i>Nature Chemical Biology</i> , 2017, 13, 745-749.	8.0	18
16	InhA, the enoyl-thioester reductase from <i>Mycobacterium tuberculosis</i> forms a covalent adduct during catalysis. <i>Journal of Biological Chemistry</i> , 2018, 293, 17200-17207.	3.4	15
17	Engineered Production of Short-Chain Acyl-Coenzyme A Esters in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 1105-1115.	3.8	14
18	Crystal structure of archaeal β -HMG-CoA reductase: insights into structural changes of the C-terminal helix of the class I enzyme. <i>FEBS Letters</i> , 2019, 593, 543-553.	2.8	10

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19	Modular cell-free expression plasmids to accelerate biological design in cells. <i>Synthetic Biology</i> , 2020, 5, ysaa019.	2.2	10
20	Intersubunit Coupling Enables Fast CO ₂ -Fixation by Reductive Carboxylases. <i>ACS Central Science</i> , 2022, 8, 1091-1101.	11.3	10
21	Cell-Free Protein Synthesis for High-Throughput Biosynthetic Pathway Prototyping. <i>Methods in Molecular Biology</i> , 2022, 2433, 199-215.	0.9	9
22	Tuning the Cell-Free Protein Synthesis System for Biomanufacturing of Monomeric Human Filaggrin. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 590341.	4.1	7
23	Benzylmalonyl-CoA dehydrogenase, an enzyme involved in bacterial auxin degradation. <i>Archives of Microbiology</i> , 2021, 203, 4149-4159.	2.2	1