

James B Y H Behrendorff

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

916
citations

516710

16
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

1221
citing authors

#	ARTICLE	IF	CITATIONS
1	Low carbon fuels and commodity chemicals from waste gases – systematic approach to understand energy metabolism in a model acetogen. <i>Green Chemistry</i> , 2016, 18, 3020-3028.	9.0	143
2	Maintenance of ATP Homeostasis Triggers Metabolic Shifts in Gas-Fermenting Acetogens. <i>Cell Systems</i> , 2017, 4, 505-515.e5.	6.2	128
3	Engineering highly functional thermostable proteins using ancestral sequence reconstruction. <i>Nature Catalysis</i> , 2018, 1, 878-888.	34.4	106
4	Arginine deiminase pathway provides ATP and boosts growth of the gas-fermenting acetogen <i>Clostridium autoethanogenum</i> . <i>Metabolic Engineering</i> , 2017, 41, 202-211.	7.0	96
5	Directed evolution of cytochrome P450 enzymes for biocatalysis: exploiting the catalytic versatility of enzymes with relaxed substrate specificity. <i>Biochemical Journal</i> , 2015, 467, 1-15.	3.7	67
6	Systems-level engineering and characterisation of <i>Clostridium autoethanogenum</i> through heterologous production of poly-3-hydroxybutyrate (PHB). <i>Metabolic Engineering</i> , 2019, 53, 14-23.	7.0	57
7	Is the undergraduate research experience (URE) always best?: The power of choice in a bifurcated practical stream for a large introductory biochemistry class. <i>Biochemistry and Molecular Biology Education</i> , 2012, 40, 46-62.	1.2	52
8	2,2-Diphenyl-1-picrylhydrazyl as a screening tool for recombinant monoterpene biosynthesis. <i>Microbial Cell Factories</i> , 2013, 12, 76.	4.0	48
9	Facile production of minor metabolites for drug development using a CYP3A shuffled library. <i>Metabolic Engineering</i> , 2011, 13, 682-693.	7.0	31
10	Synthetic Protein Scaffolding at Biological Membranes. <i>Trends in Biotechnology</i> , 2020, 38, 432-446.	9.3	27
11	Systems analysis of methylerythritol-phosphate pathway flux in <i>E. coli</i> : insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. <i>Microbial Cell Factories</i> , 2015, 14, 193.	4.0	24
12	Production of Industrially Relevant Isoprenoid Compounds in Engineered Microbes. <i>Microbiology Monographs</i> , 2015, , 303-334.	0.6	20
13	Prospects for Applying Synthetic Biology to Toxicology: Future Opportunities and Current Limitations for the Repurposing of Cytochrome P450 Systems. <i>Chemical Research in Toxicology</i> , 2017, 30, 453-468.	3.3	19
14	Reductive Cytochrome P450 Reactions and Their Potential Role in Bioremediation. <i>Frontiers in Microbiology</i> , 2021, 12, 649273.	3.5	19
15	Curvature thylakoid 1 proteins modulate prolamellar body morphology and promote organized thylakoid biogenesis in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
16	Directed Evolution Reveals Requisite Sequence Elements in the Functional Expression of P450 2F1 in <i>Escherichia coli</i> . <i>Chemical Research in Toxicology</i> , 2012, 25, 1964-1974.	3.3	16
17	Non-photosynthetic plastids as hosts for metabolic engineering. <i>Essays in Biochemistry</i> , 2018, 62, 41-50.	4.7	16
18	Membrane-Bound Protein Scaffolding in Diverse Hosts Using Thylakoid Protein CURT1A. <i>ACS Synthetic Biology</i> , 2019, 8, 611-620.	3.8	12

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19	Restriction Enzyme-Mediated DNA Family Shuffling. <i>Methods in Molecular Biology</i> , 2014, 1179, 175-187.	0.9	10
20	DNA Shuffling of Cytochrome P450 Enzymes. <i>Methods in Molecular Biology</i> , 2013, 987, 177-188.	0.9	7
21	Antimicrobial solid media for screening non-sterile <i>Arabidopsis thaliana</i> seeds. <i>Physiologia Plantarum</i> , 2020, 169, 586-599.	5.2	0