James B Y H Behrendorff

List of Publications by Year
in descending order

21	916	516710 16	752698 20
papers	citations	h-index	g-index

23	23	23	1221
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reductive Cytochrome P450 Reactions and Their Potential Role in Bioremediation. Frontiers in Microbiology, 2021, 12, 649273.	3.5	19
2	Curvature thylakoid 1 proteins modulate prolamellar body morphology and promote organized thylakoid biogenesis inArabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18
3	Synthetic Protein Scaffolding at Biological Membranes. Trends in Biotechnology, 2020, 38, 432-446.	9.3	27
4	Antimicrobial solid media for screening nonâ€sterile Arabidopsis thaliana seeds. Physiologia Plantarum, 2020, 169, 586-599.	5.2	0
5	Membrane-Bound Protein Scaffolding in Diverse Hosts Using Thylakoid Protein CURT1A. ACS Synthetic Biology, 2019, 8, 611-620.	3.8	12
6	Systems-level engineering and characterisation of Clostridium autoethanogenum through heterologous production of poly-3-hydroxybutyrate (PHB). Metabolic Engineering, 2019, 53, 14-23.	7.0	57
7	Engineering highly functional thermostable proteins using ancestral sequence reconstruction. Nature Catalysis, 2018, 1, 878-888.	34.4	106
8	Non-photosynthetic plastids as hosts for metabolic engineering. Essays in Biochemistry, 2018, 62, 41-50.	4.7	16
9	Arginine deiminase pathway provides ATP and boosts growth of the gas-fermenting acetogen Clostridium autoethanogenum. Metabolic Engineering, 2017, 41, 202-211.	7.0	96
10	Prospects for Applying Synthetic Biology to Toxicology: Future Opportunities and Current Limitations for the Repurposing of Cytochrome P450 Systems. Chemical Research in Toxicology, 2017, 30, 453-468.	3.3	19
11	Maintenance of ATP Homeostasis Triggers Metabolic Shifts in Gas-Fermenting Acetogens. Cell Systems, 2017, 4, 505-515.e5.	6.2	128
12	Low carbon fuels and commodity chemicals from waste gases â€“ systematic approach to understand energy metabolism in a model acetogen. Green Chemistry, 2016, 18, 3020-3028.	9.0	143
13	Systems analysis of methylerythritol-phosphate pathway flux in E. coli: insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. Microbial Cell Factories, 2015, 14, 193.	4.0	24
14	Production of Industrially Relevant Isoprenoid Compounds in Engineered Microbes. Microbiology Monographs, 2015, , 303-334.	0.6	20
15	Directed evolution of cytochrome P450 enzymes for biocatalysis: exploiting the catalytic versatility of enzymes with relaxed substrate specificity. Biochemical Journal, 2015, 467, 1-15.	3.7	67
16	Restriction Enzyme-Mediated DNA Family Shuffling. Methods in Molecular Biology, 2014, 1179, 175-187.	0.9	10
17	2,2-Diphenyl-1-picrylhydrazyl as a screening tool for recombinant monoterpene biosynthesis. Microbial Cell Factories, 2013, 12, 76.	4.0	48
18	DNA Shuffling of Cytochrome P450 Enzymes. Methods in Molecular Biology, 2013, 987, 177-188.	0.9	7

#	Article	IF	Citations
19	Directed Evolution Reveals Requisite Sequence Elements in the Functional Expression of P450 2F1 in Escherichia coli. Chemical Research in Toxicology, 2012, 25, 1964-1974.	3.3	16
20	Is the undergraduate research experience (URE) always best?: The power of choice in a bifurcated practical stream for a large introductory biochemistry class. Biochemistry and Molecular Biology Education, 2012, 40, 46-62.	1.2	52
21	Facile production of minor metabolites for drug development using a CYP3A shuffled library. Metabolic Engineering, 2011, 13, 682-693.	7.0	31