Elton P Hudson

List of Publications by Year
in descending order

35	1,787	279701 23	395590 33
papers	citations	h-index	g-index

43	43	43	2167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthetic metabolic pathways for conversion of CO2 into secreted short-to medium-chain hydrocarbons using cyanobacteria. Metabolic Engineering, 2022, 72, 14-23.	3.6	20
2	Engineering of Ancestors as a Tool to Elucidate Structure, Mechanism, and Specificity of Extant Terpene Cyclase. Journal of the American Chemical Society, 2021, 143, 3794-3807.	6.6	28
3	CO2 fixation gets a second chance. Nature Catalysis, 2021, 4, 94-95.	16.1	0
4	Wide range of metabolic adaptations to the acquisition of the Calvin cycle revealed by comparison of microbial genomes. PLoS Computational Biology, 2021, 17, e1008742.	1.5	13
5	Slow Protein Turnover Explains Limited Protein-Level Response to Diurnal Transcriptional Oscillations in Cyanobacteria. Frontiers in Microbiology, 2021, 12, 657379.	1.5	13
6	Cycling between growth and production phases increases cyanobacteria bioproduction of lactate. Metabolic Engineering, 2021, 68, 131-141.	3.6	21
7	CRISPRi as a Tool to Repress Multiple Copies of Extracellular Polymeric Substances (EPS)-Related Genes in the Cyanobacterium Synechocystis sp. PCC 6803. Life, 2021, 11, 1198.	1.1	7
8	Protein allocation and utilization in the versatile chemolithoautotroph Cupriavidus necator. ELife, 2021, 10, .	2.8	32
9	Environmental impacts and limitations of thirdâ€generation biobutanol: Life cycle assessment of n â€butanol produced by genetically engineered cyanobacteria. Journal of Industrial Ecology, 2020, 24, 205-216.	2.8	35
10	Pooled CRISPRi screening of the cyanobacterium Synechocystis sp PCC 6803 for enhanced industrial phenotypes. Nature Communications, 2020, 11, 1666.	5.8	91
11	Kinetic modeling of the Calvin cycle identifies flux control and stable metabolomes inSynechocystiscarbon fixation. Journal of Experimental Botany, 2019, 70, 973-983.	2.4	37
12	Thermodynamic analysis of computed pathways integrated into the metabolic networks of E. coli and Synechocystis reveals contrasting expansion potential. Metabolic Engineering, 2018, 45, 223-236.	3.6	38
13	Diversion of the long-chain acyl-ACP pool in Synechocystis to fatty alcohols through CRISPRi repression of the essential phosphate acyltransferase PlsX. Metabolic Engineering, 2018, 45, 59-66.	3.6	97
14	Ribosome Profiling of Synechocystis Reveals Altered Ribosome Allocation at Carbon Starvation. MSystems, 2018, 3, .	1.7	16
15	Growth of Cyanobacteria Is Constrained by the Abundance of Light and Carbon Assimilation Proteins. Cell Reports, 2018, 25, 478-486.e8.	2.9	97
16	Surface Display of Small Affinity Proteins on Synechocystis sp. Strain PCC 6803 Mediated by Fusion to the Major Type IV Pilin PilA1. Journal of Bacteriology, 2018, 200, .	1.0	15
17	Systematic overexpression study to find target enzymes enhancing production of terpenes in Synechocystis PCC 6803, using isoprene as a model compound. Metabolic Engineering, 2018, 49, 164-177.	3.6	84
18	Targeted Repression of Essential Genes To Arrest Growth and Increase Carbon Partitioning and Biofuel Titers in Cyanobacteria. ACS Synthetic Biology, 2018, 7, 1669-1675.	1.9	68

#	Article	IF	Citations
19	Affibody Scaffolds Improve Sesquiterpene Production in Saccharomyces cerevisiae. ACS Synthetic Biology, 2017, 6, 19-28.	1.9	66
20	Bridging chemical- and bio-catalysis: high-value liquid transportation fuel production from renewable agricultural residues. Green Chemistry, 2017, 19, 660-669.	4.6	46
21	Computational metabolic engineering strategies for growth-coupled biofuel production by Synechocystis. Metabolic Engineering Communications, 2016, 3, 216-226.	1.9	78
22	Arabidopsis acyl-acyl carrier protein synthetase AAE15 with medium chain fatty acid specificity is functional in cyanobacteria. AMB Express, 2016, 6, 7.	1.4	3
23	Multiple Gene Repression in Cyanobacteria Using CRISPRi. ACS Synthetic Biology, 2016, 5, 207-212.	1.9	204
24	Single-cell screening of photosynthetic growth and lactate production by cyanobacteria. Biotechnology for Biofuels, 2015, 8, 193.	6.2	42
25	Solid-phase cloning for high-throughput assembly of single and multiple DNA parts. Nucleic Acids Research, 2015, 43, e49-e49.	6.5	14
26	Genetic and nutrient modulation of acetyl-CoA levels in Synechocystis for n-butanol production. Microbial Cell Factories, 2015, 14, 167.	1.9	92
27	The Use of Enzymes for Nonaqueous Organic Transformations. , 2014, , 509-523.		0
28	Proteome-wide Epitope Mapping of Antibodies Using Ultra-dense Peptide Arrays. Molecular and Cellular Proteomics, 2014, 13, 1585-1597.	2.5	110
29	Overexpression of sigma factor SigB improves temperature and butanol tolerance of Synechocystis sp. PCC6803. Journal of Biotechnology, 2014, 182-183, 54-60.	1.9	60
30	Using Transcriptomics To Improve Butanol Tolerance of Synechocystis sp. Strain PCC 6803. Applied and Environmental Microbiology, 2013, 79, 7419-7427.	1.4	85
31	Multiplex epitope mapping using bacterial surface display reveals both linear and conformational epitopes. Scientific Reports, 2012, 2, 706.	1.6	23
32	Automated Solid-Phase Subcloning Based on Beads Brought into Proximity by Magnetic Force. PLoS ONE, 2012, 7, e37429.	1.1	4
33	Active-Site Motions and Polarity Enhance Catalytic Turnover of Hydrated Subtilisin Dissolved in Organic Solvents. Journal of the American Chemical Society, 2009, 131, 4294-4300.	6.6	31
34	Biocatalyst activity in nonaqueous environments correlates with centisecond-range protein motions. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15672-15677.	3.3	30
35	Biocatalysis in semi-aqueous and nearly anhydrous conditions. Current Opinion in Biotechnology, 2005, 16, 637-643.	3.3	174