

Elton P Hudson

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,787
citations

279798

23
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic metabolic pathways for conversion of CO ₂ into secreted short-to medium-chain hydrocarbons using cyanobacteria. <i>Metabolic Engineering</i> , 2022, 72, 14-23.	7.0	20
2	Engineering of Ancestors as a Tool to Elucidate Structure, Mechanism, and Specificity of Extant Terpene Cyclase. <i>Journal of the American Chemical Society</i> , 2021, 143, 3794-3807.	13.7	28
3	CO ₂ fixation gets a second chance. <i>Nature Catalysis</i> , 2021, 4, 94-95.	34.4	0
4	Wide range of metabolic adaptations to the acquisition of the Calvin cycle revealed by comparison of microbial genomes. <i>PLoS Computational Biology</i> , 2021, 17, e1008742.	3.2	13
5	Slow Protein Turnover Explains Limited Protein-Level Response to Diurnal Transcriptional Oscillations in Cyanobacteria. <i>Frontiers in Microbiology</i> , 2021, 12, 657379.	3.5	13
6	Cycling between growth and production phases increases cyanobacteria bioproduction of lactate. <i>Metabolic Engineering</i> , 2021, 68, 131-141.	7.0	21
7	CRISPRi as a Tool to Repress Multiple Copies of Extracellular Polymeric Substances (EPS)-Related Genes in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Life</i> , 2021, 11, 1198.	2.4	7
8	Protein allocation and utilization in the versatile chemolithoautotroph <i>Cupriavidus necator</i> . <i>ELife</i> , 2021, 10, .	6.0	32
9	Environmental impacts and limitations of third-generation biobutanol: Life cycle assessment of n-butanol produced by genetically engineered cyanobacteria. <i>Journal of Industrial Ecology</i> , 2020, 24, 205-216.	5.5	35
10	Pooled CRISPRi screening of the cyanobacterium <i>Synechocystis</i> sp PCC 6803 for enhanced industrial phenotypes. <i>Nature Communications</i> , 2020, 11, 1666.	12.8	91
11	Kinetic modeling of the Calvin cycle identifies flux control and stable metabolomes in <i>Synechocystis</i> carbon fixation. <i>Journal of Experimental Botany</i> , 2019, 70, 973-983.	4.8	37
12	Thermodynamic analysis of computed pathways integrated into the metabolic networks of <i>E. coli</i> and <i>Synechocystis</i> reveals contrasting expansion potential. <i>Metabolic Engineering</i> , 2018, 45, 223-236.	7.0	38
13	Diversion of the long-chain acyl-ACP pool in <i>Synechocystis</i> to fatty alcohols through CRISPRi repression of the essential phosphate acyltransferase <i>PlsX</i> . <i>Metabolic Engineering</i> , 2018, 45, 59-66.	7.0	97
14	Ribosome Profiling of <i>Synechocystis</i> Reveals Altered Ribosome Allocation at Carbon Starvation. <i>MSystems</i> , 2018, 3, .	3.8	16
15	Growth of Cyanobacteria Is Constrained by the Abundance of Light and Carbon Assimilation Proteins. <i>Cell Reports</i> , 2018, 25, 478-486.e8.	6.4	97
16	Surface Display of Small Affinity Proteins on <i>Synechocystis</i> sp. Strain PCC 6803 Mediated by Fusion to the Major Type IV Pilin <i>PilA1</i> . <i>Journal of Bacteriology</i> , 2018, 200, .	2.2	15
17	Systematic overexpression study to find target enzymes enhancing production of terpenes in <i>Synechocystis</i> PCC 6803, using isoprene as a model compound. <i>Metabolic Engineering</i> , 2018, 49, 164-177.	7.0	84
18	Targeted Repression of Essential Genes To Arrest Growth and Increase Carbon Partitioning and Biofuel Titers in Cyanobacteria. <i>ACS Synthetic Biology</i> , 2018, 7, 1669-1675.	3.8	68

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19	Affibody Scaffolds Improve Sesquiterpene Production in <i>Saccharomyces cerevisiae</i> . ACS Synthetic Biology, 2017, 6, 19-28.	3.8	66
20	Bridging chemical- and bio-catalysis: high-value liquid transportation fuel production from renewable agricultural residues. Green Chemistry, 2017, 19, 660-669.	9.0	46
21	Computational metabolic engineering strategies for growth-coupled biofuel production by <i>Synechocystis</i> . Metabolic Engineering Communications, 2016, 3, 216-226.	3.6	78
22	Arabidopsis acyl-acyl carrier protein synthetase AAE15 with medium chain fatty acid specificity is functional in cyanobacteria. AMB Express, 2016, 6, 7.	3.0	3
23	Multiple Gene Repression in Cyanobacteria Using CRISPRi. ACS Synthetic Biology, 2016, 5, 207-212.	3.8	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.	14.5	14
26	Genetic and nutrient modulation of acetyl-CoA levels in <i>Synechocystis</i> for n-butanol production. Microbial Cell Factories, 2015, 14, 167.	4.0	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.	3.8	110
29	Overexpression of sigma factor SigB improves temperature and butanol tolerance of <i>Synechocystis</i> sp. PCC6803. Journal of Biotechnology, 2014, 182-183, 54-60.	3.8	60
30	Using Transcriptomics To Improve Butanol Tolerance of <i>Synechocystis</i> sp. Strain PCC 6803. Applied and Environmental Microbiology, 2013, 79, 7419-7427.	3.1	85
31	Multiplex epitope mapping using bacterial surface display reveals both linear and conformational epitopes. Scientific Reports, 2012, 2, 706.	3.3	23
32	Automated Solid-Phase Subcloning Based on Beads Brought into Proximity by Magnetic Force. PLoS ONE, 2012, 7, e37429.	2.5	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.	13.7	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.	7.1	30
35	Biocatalysis in semi-aqueous and nearly anhydrous conditions. Current Opinion in Biotechnology, 2005, 16, 637-643.	6.6	174