

David J Lea-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,752
citations

331670

21
h-index

477307

29
g-index

35
all docs

35
docs citations

35
times ranked

3902
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel from algae: challenges and prospects. <i>Current Opinion in Biotechnology</i> , 2010, 21, 277-286.	6.6	976
2	Photosynthetic, respiratory and extracellular electron transport pathways in cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 247-255.	1.0	192
3	Contribution of cyanobacterial alkane production to the ocean hydrocarbon cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13591-13596.	7.1	159
4	Function of the Cytochrome bc 1 - aa 3 Branch of the Respiratory Network in Mycobacteria and Network Adaptation Occurring in Response to Its Disruption. <i>Journal of Bacteriology</i> , 2005, 187, 6300-6308.	2.2	133
5	Proliferation of hydrocarbon-degrading microbes at the bottom of the Mariana Trench. <i>Microbiome</i> , 2019, 7, 47.	11.1	128
6	CyanoGate: A Modular Cloning Suite for Engineering Cyanobacteria Based on the Plant MoClo Syntax. <i>Plant Physiology</i> , 2019, 180, 39-55.	4.8	123
7	Enhancing power density of biophotovoltaics by decoupling storage and power delivery. <i>Nature Energy</i> , 2018, 3, 75-81.	39.5	103
8	Thylakoid Terminal Oxidases Are Essential for the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 to Survive Rapidly Changing Light Intensities. <i>Plant Physiology</i> , 2013, 162, 484-495.	4.8	97
9	The Reductase That Catalyzes Mycolic Motif Synthesis Is Required for Efficient Attachment of Mycolic Acids to Arabinogalactan. <i>Journal of Biological Chemistry</i> , 2007, 282, 11000-11008.	3.4	94
10	Terminal oxidase mutants of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 show increased electrogenic activity in biological photo-voltaic systems. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13611.	2.8	74
11	Analysis of a New Mannosyltransferase Required for the Synthesis of Phosphatidylinositol Mannosides and Lipoarbinomannan Reveals Two Lipomannan Pools in <i>Corynebacterineae</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 6773-6782.	3.4	69
12	Phycobilisome-Deficient Strains of <i>Synechocystis</i> sp. PCC 6803 Have Reduced Size and Require Carbon-Limiting Conditions to Exhibit Enhanced Productivity. <i>Plant Physiology</i> , 2014, 165, 705-714.	4.8	66
13	Hydrogen production through oxygenic photosynthesis using the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 in a bio-photoelectrolysis cell (BPE) system. <i>Energy and Environmental Science</i> , 2013, 6, 2682.	30.8	61
14	Proteome Mapping of a Cyanobacterium Reveals Distinct Compartment Organization and Cell-Dispersed Metabolism. <i>Plant Physiology</i> , 2019, 181, 1721-1738.	4.8	58
15	Distinguishing the roles of thylakoid respiratory terminal oxidases in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2016, 171, pp.00479.2016.	4.8	55
16	Current knowledge and recent advances in understanding metabolism of the model cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Bioscience Reports</i> , 2020, 40, .	2.4	55
17	Hydrocarbons Are Essential for Optimal Cell Size, Division, and Growth of Cyanobacteria. <i>Plant Physiology</i> , 2016, 172, 1928-1940.	4.8	53
18	Acetylation of Trehalose Mycolates Is Required for Efficient MmpL-Mediated Membrane Transport in <i>Corynebacterineae</i> . <i>ACS Chemical Biology</i> , 2015, 10, 734-746.	3.4	48

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19	Platinum-free, graphene based anodes and air cathodes for single chamber microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23872-23886.	10.3	45
20	Emerging Species and Genome Editing Tools: Future Prospects in Cyanobacterial Synthetic Biology. <i>Microorganisms</i> , 2019, 7, 409.	3.6	39
21	Generation of Marked and Markerless Mutants in Model Cyanobacterial Species. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	25
22	Insights into the Vertical Stratification of Microbial Ecological Roles across the Deepest Seawater Column on Earth. <i>Microorganisms</i> , 2020, 8, 1309.	3.6	18
23	A biophotocatalytic approach to unravelling the role of cyanobacterial cell structures in exoelectrogenesis. <i>Electrochimica Acta</i> , 2021, 395, 139214.	5.2	18
24	Cytochrome <i>c</i> _M Decreases Photosynthesis under Photomixotrophy in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2020, 183, 700-716.	4.8	17
25	Expression of Alternative Nitrogenases in <i>Rhodospseudomonas palustris</i> Is Enhanced Using an Optimized Genetic Toolset for Rapid, Markerless Modifications. <i>ACS Synthetic Biology</i> , 2021, 10, 2167-2178.	3.8	9
26	Development of a Biotechnology Platform for the Fast-Growing Cyanobacterium <i>Synechococcus</i> sp. PCC 11901. <i>Biomolecules</i> , 2022, 12, 872.	4.0	9
27	Cryptic microbial hydrocarbon cycling. <i>Nature Microbiology</i> , 2021, 6, 419-420.	13.3	4
28	Editorial: Exploring the Growing Role of Cyanobacteria in Industrial Biotechnology and Sustainability. <i>Frontiers in Microbiology</i> , 2021, 12, 725128.	3.5	3
29	A dual compartment cuvette system for correcting scattering in whole-cell absorbance spectroscopy of photosynthetic microorganisms. <i>Photosynthesis Research</i> , 2022, 151, 61-69.	2.9	2