

Matthew P Davey

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,478
citations

257101

24
h-index

315357

38
g-index

43
all docs

43
docs citations

43
times ranked

5900
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel from algae: challenges and prospects. <i>Current Opinion in Biotechnology</i> , 2010, 21, 277-286.	3.3	976
2	Environmental metabolomics: a critical review and future perspectives. <i>Metabolomics</i> , 2009, 5, 3-21.	1.4	656
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.	3.3	159
4	Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. <i>Biogeochemistry</i> , 2010, 100, 57-73.	1.7	157
5	A heterogeneous microbial consortium producing short-chain fatty acids from lignocellulose. <i>Science</i> , 2020, 369, .	6.0	120
6	Kinetic modelling of growth and storage molecule production in microalgae under mixotrophic and autotrophic conditions. <i>Bioresource Technology</i> , 2014, 157, 293-304.	4.8	97
7	Metabolomics in plant environmental physiology. <i>Journal of Experimental Botany</i> , 2013, 64, 4011-4020.	2.4	96
8	Standard reporting requirements for biological samples in metabolomics experiments: environmental context. <i>Metabolomics</i> , 2007, 3, 203-210.	1.4	93
9	Impacts of extreme winter warming events on plant physiology in a sub-Arctic heath community. <i>Physiologia Plantarum</i> , 2010, 140, 128-140.	2.6	90
10	Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. <i>PLoS Pathogens</i> , 2016, 12, e1005790.	2.1	86
11	Metabolomic and physiological responses reveal multi-phase acclimation of <i>Arabidopsis thaliana</i> to chronic UV radiation. <i>Plant, Cell and Environment</i> , 2009, 32, 1377-1389.	2.8	79
12	Bionic 3D printed corals. <i>Nature Communications</i> , 2020, 11, 1748.	5.8	78
13	Remote sensing reveals Antarctic green snow algae as important terrestrial carbon sink. <i>Nature Communications</i> , 2020, 11, 2527.	5.8	75
14	Decomposition of oak leaf litter is related to initial litter Mn concentrations. <i>Canadian Journal of Botany</i> , 2007, 85, 16-24.	1.2	62
15	Snow algae communities in Antarctica: metabolic and taxonomic composition. <i>New Phytologist</i> , 2019, 222, 1242-1255.	3.5	60
16	The UV-B photoreceptor UVR8 promotes photosynthetic efficiency in <i>Arabidopsis thaliana</i> exposed to elevated levels of UV-B. <i>Photosynthesis Research</i> , 2012, 114, 121-131.	1.6	59
17	Triacylglyceride Production and Autophagous Responses in <i>Chlamydomonas reinhardtii</i> Depend on Resource Allocation and Carbon Source. <i>Eukaryotic Cell</i> , 2014, 13, 392-400.	3.4	58
18	Population-specific metabolic phenotypes of <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . <i>New Phytologist</i> , 2008, 177, 380-388.	3.5	56

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19	Intraspecific variation in cold-temperature metabolic phenotypes of <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . <i>Metabolomics</i> , 2009, 5, 138-149.	1.4	55
20	Hydrocarbons Are Essential for Optimal Cell Size, Division, and Growth of Cyanobacteria. <i>Plant Physiology</i> , 2016, 172, 1928-1940.	2.3	53
21	Variation at range margins across multiple spatial scales: environmental temperature, population genetics and metabolomic phenotype. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1495-1506.	1.2	52
22	The mirror crack'd: both pigment and structure contribute to the glossy blue appearance of the mirror orchid, <i>Ophrys speculum</i> . <i>New Phytologist</i> , 2012, 196, 1038-1047.	3.5	47
23	Effects of elevated CO ₂ on the vasculature and phenolic secondary metabolism of <i>Plantago maritima</i> . <i>Phytochemistry</i> , 2004, 65, 2197-2204.	1.4	36
24	NO-Mediated [Ca ²⁺] _{cyt} Increases Depend on ADP-Ribosyl Cyclase Activity in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 171, 623-631.	2.3	29
25	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. <i>Journal of Applied Phycology</i> , 2021, 33, 2805-2815.	1.5	20
26	On the challenges of using field spectroscopy to measure the impact of soil type on leaf traits. <i>Biogeosciences</i> , 2017, 14, 3371-3385.	1.3	18
27	Relationships between nitrogen, acid-unhydrolyzable residue, and climate among tree foliar litters. <i>Canadian Journal of Forest Research</i> , 2013, 43, 103-107.	0.8	14
28	Growth of microalgae using nitrate-rich brine wash from the water industry. <i>Algal Research</i> , 2018, 33, 91-98.	2.4	14
29	Best of Both Worlds: Simultaneous High-Light and Shade-Tolerance Adaptations within Individual Leaves of the Living Stone <i>Lithops aucampiae</i> . <i>PLoS ONE</i> , 2013, 8, e75671.	1.1	13
30	Remote Sensing Phenology of Antarctic Green and Red Snow Algae Using WorldView Satellites. <i>Frontiers in Plant Science</i> , 2021, 12, 671981.	1.7	13
31	Effects of Copper and pH on the Growth and Physiology of <i>Desmodesmus</i> sp. AARLG074. <i>Metabolites</i> , 2019, 9, 84.	1.3	12
32	Metabolomic analysis of the food-borne pathogen <i>Campylobacter jejuni</i> : application of direct injection mass spectrometry for mutant characterisation. <i>Metabolomics</i> , 2014, 10, 887-896.	1.4	11
33	Responses of a Newly Evolved Auxotroph of <i>Chlamydomonas</i> to B ₁₂ Deprivation. <i>Plant Physiology</i> , 2020, 183, 167-178.	2.3	11
34	Thiamine metabolism genes in diatoms are not regulated by thiamine despite the presence of predicted riboswitches. <i>New Phytologist</i> , 2022, 235, 1853-1867.	3.5	8
35	Natural variation in tolerance to sub-zero temperatures among populations of <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . <i>BMC Plant Biology</i> , 2018, 18, 277.	1.6	5
36	Species-specific effects of elevated CO ₂ on resource allocation in <i>Plantago maritima</i> and <i>Armeria maritima</i> . <i>Biochemical Systematics and Ecology</i> , 2007, 35, 121-129.	0.6	4

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37	Harnessing Synthetic Ecology for commercial algae production. <i>Scientific Reports</i> , 2019, 9, 9756.	1.6	2
38	Metabolomic Analysis of <i>Campylobacter jejuni</i> by Direct-Injection Electrospray Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2017, 1512, 189-197.	0.4	1
39	Tissue Culture as a Source of Replicates in Nonmodel Plants: Variation in Cold Response in <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3817-3823.	0.8	0