Matthew P Davey

List of Publications by Year in descending order

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ΜΑΤΤΗΕΊΑΙ Ρ. ΠΑΊΓΕΥ

#	Article	IF	CITATIONS
1	Biodiesel from algae: challenges and prospects. Current Opinion in Biotechnology, 2010, 21, 277-286.	6.6	976
2	Environmental metabolomics: a critical review and future perspectives. Metabolomics, 2009, 5, 3-21.	3.0	656
3	Contribution of cyanobacterial alkane production to the ocean hydrocarbon cycle. Proceedings of the United States of America, 2015, 112, 13591-13596.	7.1	159
4	Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. Biogeochemistry, 2010, 100, 57-73.	3.5	157
5	A heterogeneous microbial consortium producing short-chain fatty acids from lignocellulose. Science, 2020, 369, .	12.6	120
6	Kinetic modelling of growth and storage molecule production in microalgae under mixotrophic and autotrophic conditions. Bioresource Technology, 2014, 157, 293-304.	9.6	97
7	Metabolomics in plant environmental physiology. Journal of Experimental Botany, 2013, 64, 4011-4020.	4.8	96
8	Standard reporting requirements for biological samples in metabolomics experiments: environmental context. Metabolomics, 2007, 3, 203-210.	3.0	93
9	Impacts of extreme winter warming events on plant physiology in a sub-Arctic heath community. Physiologia Plantarum, 2010, 140, 128-140.	5.2	90
10	Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. PLoS Pathogens, 2016, 12, e1005790.	4.7	86
11	Metabolomic and physiological responses reveal multiâ€phasic acclimation of <i>Arabidopsis thaliana</i> to chronic UV radiation. Plant, Cell and Environment, 2009, 32, 1377-1389.	5.7	79
12	Bionic 3D printed corals. Nature Communications, 2020, 11, 1748.	12.8	78
13	Remote sensing reveals Antarctic green snow algae as important terrestrial carbon sink. Nature Communications, 2020, 11, 2527.	12.8	75
14	Decomposition of oak leaf litter is related to initial litter Mn concentrations. Canadian Journal of Botany, 2007, 85, 16-24.	1.1	62
15	Snow algae communities in Antarctica: metabolic and taxonomic composition. New Phytologist, 2019, 222, 1242-1255.	7.3	60
16	The UV-B photoreceptor UVR8 promotes photosynthetic efficiency in Arabidopsis thaliana exposed to elevated levels of UV-B. Photosynthesis Research, 2012, 114, 121-131.	2.9	59
17	Triacylglyceride Production and Autophagous Responses in Chlamydomonas reinhardtii Depend on Resource Allocation and Carbon Source. Eukaryotic Cell, 2014, 13, 392-400.	3.4	58
18	Populationâ€ s pecific metabolic phenotypes of <i>Arabidopsis lyrata</i> ssp. <i>petraea</i> . New Phytologist, 2008, 177, 380-388.	7.3	56

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19	Intraspecfic variation in cold-temperature metabolic phenotypes of Arabidopsis lyrata ssp. petraea. Metabolomics, 2009, 5, 138-149.	3.0	55
20	Hydrocarbons Are Essential for Optimal Cell Size, Division, and Growth of Cyanobacteria. Plant Physiology, 2016, 172, 1928-1940.	4.8	53
21	Variation at range margins across multiple spatial scales: environmental temperature, population genetics and metabolomic phenotype. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1495-1506.	2.6	52
22	The mirror crack'd: both pigment and structure contribute to the glossy blue appearance of the mirror orchid, <i>Ophrys speculum</i> . New Phytologist, 2012, 196, 1038-1047.	7.3	47
23	Effects of elevated CO2 on the vasculature and phenolic secondary metabolism of Plantago maritima. Phytochemistry, 2004, 65, 2197-2204.	2.9	36
24	NO-Mediated [Ca ²⁺] _{cyt} Increases Depend on ADP-Ribosyl Cyclase Activity in Arabidopsis. Plant Physiology, 2016, 171, 623-631.	4.8	29
25	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. Journal of Applied Phycology, 2021, 33, 2805-2815.	2.8	20
26	On the challenges of using field spectroscopy to measure the impact of soil type on leaf traits. Biogeosciences, 2017, 14, 3371-3385.	3.3	18
27	Relationships between nitrogen, acid-unhydrolyzable residue, and climate among tree foliar litters. Canadian Journal of Forest Research, 2013, 43, 103-107.	1.7	14
28	Growth of microalgae using nitrate-rich brine wash from the water industry. Algal Research, 2018, 33, 91-98.	4.6	14
29	Best of Both Worlds: Simultaneous High-Light and Shade-Tolerance Adaptations within Individual Leaves of the Living Stone Lithops aucampiae. PLoS ONE, 2013, 8, e75671.	2.5	13
30	Remote Sensing Phenology of Antarctic Green and Red Snow Algae Using WorldView Satellites. Frontiers in Plant Science, 2021, 12, 671981.	3.6	13
31	Effects of Copper and pH on the Growth and Physiology of Desmodesmus sp. AARLG074. Metabolites, 2019, 9, 84.	2.9	12
32	Metabolomic analysis of the food-borne pathogen Campylobacter jejuni: application of direct injection mass spectrometry for mutant characterisation. Metabolomics, 2014, 10, 887-896.	3.0	11
33	Responses of a Newly Evolved Auxotroph of Chlamydomonas to B ₁₂ Deprivation. Plant Physiology, 2020, 183, 167-178.	4.8	11
34	Thiamine metabolism genes in diatoms are not regulated by thiamine despite the presence of predicted riboswitches. New Phytologist, 2022, 235, 1853-1867.	7.3	8
35	Natural variation in tolerance to sub-zero temperatures among populations of Arabidopsis lyrata ssp. petraea. BMC Plant Biology, 2018, 18, 277.	3.6	5
36	Species-specific effects of elevated CO2 on resource allocation in Plantago maritima and Armeria maritima. Biochemical Systematics and Ecology, 2007, 35, 121-129.	1.3	4

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37	Harnessing Synthetic Ecology for commercial algae production. Scientific Reports, 2019, 9, 9756.	3.3	2
38	Metabolomic Analysis of Campylobacter jejuni by Direct-Injection Electrospray Ionization Mass Spectrometry. Methods in Molecular Biology, 2017, 1512, 189-197.	0.9	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> . G3: Genes, Genomes, Genetics, 2016, 6, 3817-3823.	1.8	0