# Matthew P Davey

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Thiamine metabolism genes in diatoms are not regulated by thiamine despite the presence of predicted riboswitches. New Phytologist, 2022, 235, 1853-1867. | 3.5 | 8 |
| 2 | Remote Sensing Phenology of Antarctic Green and Red Snow Algae Using WorldView Satellites. Frontiers in Plant Science, 2021, 12, 671981. | 1.7 | 13 |
| 3 | Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. Journal of Applied Phycology, 2021, 33, 2805-2815. | 1.5 | 20 |
| 4 | A heterogeneous microbial consortium producing short-chain fatty acids from lignocellulose. Science, 2020, 369, . | 6.0 | 120 |
| 5 | Remote sensing reveals Antarctic green snow algae as important terrestrial carbon sink. Nature Communications, 2020, 11, 2527. | 5.8 | 75 |
| 6 | Responses of a Newly Evolved Auxotroph of Chlamydomonas to B<sub>12</sub> Deprivation. Plant Physiology, 2020, 183, 167-178. | 2.3 | 11 |
| 7 | Bionic 3D printed corals. Nature Communications, 2020, 11, 1748. | 5.8 | 78 |
| 8 | Harnessing Synthetic Ecology for commercial algae production. Scientific Reports, 2019, 9, 9756. | 1.6 | 2 |
| 9 | Snow algae communities in Antarctica: metabolic and taxonomic composition. New Phytologist, 2019, 222, 1242-1255. | 3.5 | 60 |
| 10 | Effects of Copper and pH on the Growth and Physiology of Desmodesmus sp. AARLG074. Metabolites, 2019, 9, 84. | 1.3 | 12 |
| 11 | Natural variation in tolerance to sub-zero temperatures among populations of Arabidopsis lyrata ssp. petraea. BMC Plant Biology, 2018, 18, 277. | 1.6 | 5 |
| 12 | Growth of microalgae using nitrate-rich brine wash from the water industry. Algal Research, 2018, 33, 91-98. | 2.4 | 14 |
| 13 | Metabolomic Analysis of Campylobacter jejuni by Direct-Injection Electrospray Ionization Mass Spectrometry. Methods in Molecular Biology, 2017, 1512, 189-197. | 0.4 | 1 |
| 14 | On the challenges of using field spectroscopy to measure the impact of soil type on leaf traits. Biogeosciences, 2017, 14, 3371-3385. | 1.3 | 18 |
| 15 | Virus Infection of Plants Alters Pollinator Preference: A Payback for Susceptible Hosts?. PLoS Pathogens, 2016, 12, e1005790. | 2.1 | 86 |
| 16 | NO-Mediated [Ca<sup>2+</sup>]<sub>cyt</sub> Increases Depend on ADP-Ribosyl Cyclase Activity in Arabidopsis. Plant Physiology, 2016, 171, 623-631. | 2.3 | 29 |
| 17 | Hydrocarbons Are Essential for Optimal Cell Size, Division, and Growth of Cyanobacteria. Plant Physiology, 2016, 172, 1928-1940. | 2.3 | 53 |
| 18 | Tissue Culture as a Source of Replicates in Nonmodel Plants: Variation in Cold Response inArabidopsis lyratassp.petraea. G3: Genes, Genomes, Genetics, 2016, 6, 3817-3823. | 0.8 | 0 |

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|---|---|---|---|
| 19 | Contribution of cyanobacterial alkane production to the ocean hydrocarbon cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13591-13596. | 3.3 | 159 |
| 20 | Kinetic modelling of growth and storage molecule production in microalgae under mixotrophic and autotrophic conditions. Bioresource Technology, 2014, 157, 293-304. | 4.8 | 97 |
| 21 | Triacylglyceride Production and Autophagous Responses in Chlamydomonas reinhardtii Depend on Resource Allocation and Carbon Source. Eukaryotic Cell, 2014, 13, 392-400. | 3.4 | 58 |
| 22 | Metabolomic analysis of the food-borne pathogen Campylobacter jejuni: application of direct injection mass spectrometry for mutant characterisation. Metabolomics, 2014, 10, 887-896. | 1.4 | 11 |
| 23 | Metabolomics in plant environmental physiology. Journal of Experimental Botany, 2013, 64, 4011-4020. | 2.4 | 96 |
| 24 | Relationships between nitrogen, acid-unhydrolyzable residue, and climate among tree foliar litters. Canadian Journal of Forest Research, 2013, 43, 103-107. | 0.8 | 14 |
| 25 | 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. | 1.1 | 13 |
| 26 | The UV-B photoreceptor UVR8 promotes photosynthetic efficiency in Arabidopsis thaliana exposed to elevated levels of UV-B. Photosynthesis Research, 2012, 114, 121-131. | 1.6 | 59 |
| 27 | The mirror crack'd: both pigment and structure contribute to the glossy blue appearance of the mirror orchid, Ophrys speculum. New Phytologist, 2012, 196, 1038-1047. | 3.5 | 47 |
| 28 | Factors influencing limit values for pine needle litter decomposition: a synthesis for boreal and temperate pine forest systems. Biogeochemistry, 2010, 100, 57-73. | 1.7 | 157 |
| 29 | Biodiesel from algae: challenges and prospects. Current Opinion in Biotechnology, 2010, 21, 277-286. | 3.3 | 976 |
| 30 | Impacts of extreme winter warming events on plant physiology in a sub-Arctic heath community. Physiologia Plantarum, 2010, 140, 128-140. | 2.6 | 90 |
| 31 | 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. | 1.2 | 52 |
| 32 | Intraspecfic variation in cold-temperature metabolic phenotypes of Arabidopsis lyrata ssp. petraea. Metabolomics, 2009, 5, 138-149. | 1.4 | 55 |
| 33 | Environmental metabolomics: a critical review and future perspectives. Metabolomics, 2009, 5, 3-21. | 1.4 | 656 |
| 34 | Metabolomic and physiological responses reveal multiâ€phasic acclimation of Arabidopsis thaliana to chronic UV radiation. Plant, Cell and Environment, 2009, 32, 1377-1389. | 2.8 | 79 |
| 35 | Populationâ€specific metabolic phenotypes of Arabidopsis lyrata ssp. petraea. New Phytologist, 2008, 177, 380-388. | 3.5 | 56 |
| 36 | Decomposition of oak leaf litter is related to initial litter Mn concentrations. Canadian Journal of Botany, 2007, 85, 16-24. | 1.2 | 62 |

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|---|---|---|---|
| 37 | Species-specific effects of elevated CO2 on resource allocation in Plantago maritima and Armeria maritima. Biochemical Systematics and Ecology, 2007, 35, 121-129. | 0.6 | 4 |
| 38 | Standard reporting requirements for biological samples in metabolomics experiments: environmental context. Metabolomics, 2007, 3, 203-210. | 1.4 | 93 |
| 39 | Effects of elevated CO2 on the vasculature and phenolic secondary metabolism of Plantago maritima. Phytochemistry, 2004, 65, 2197-2204. | 1.4 | 36 |