Michael A Phillips

List of Publications by Year
in descending order

34 papers	2,559 citations	361413 20 h-index	377865 34 g-index
34 all docs	34 docs citations	34 times ranked	2948 citing authors

#	Article	IF	Citations
1	Resin-based defenses in conifers. Trends in Plant Science, 1999, 4, 184-190.	8.8	467
2	Regulation of carotenoid biosynthesis in plants: evidence for a key role of hydroxymethylbutenyl diphosphate reductase in controlling the supply of plastidial isoprenoid precursors. Plant Journal, 2004, 40, 188-199.	5.7	234
3	The plastidial MEP pathway: unified nomenclature and resources. Trends in Plant Science, 2008, 13, 619-623.	8.8	214
4	Distinct Light-Mediated Pathways Regulate the Biosynthesis and Exchange of Isoprenoid Precursors during Arabidopsis Seedling Development. Plant Cell, 2004, 16, 144-156.	6.6	189
5	Medically Useful Plant Terpenoids: Biosynthesis, Occurrence, and Mechanism of Action. Molecules, 2019, 24, 3961.	3.8	188
6	Deoxyxylulose 5-Phosphate Synthase Controls Flux through the Methylerythritol 4-Phosphate Pathway in Arabidopsis. Plant Physiology, 2014, 165, 1488-1504.	4.8	154
7	cDNA isolation, functional expression, and characterization of (+)-Î±-pinene synthase and (âˆ’)-Î±-pinene synthase from loblolly pine (Pinus taeda): Stereocontrol in pinene biosynthesis. Archives of Biochemistry and Biophysics, 2003, 411, 267-276.	3.0	140
8	Functional identification and differential expression of 1-deoxy-d-xylulose 5-phosphate synthase in induced terpenoid resin formation of Norway spruce (Picea abies). Plant Molecular Biology, 2007, 65, 243-257.	3.9	126
9	The Arabidopsis thaliana Type I Isopentenyl Diphosphate Isomerases Are Targeted to Multiple Subcellular Compartments and Have Overlapping Functions in Isoprenoid Biosynthesis. Plant Cell, 2008, 20, 677-696.	6.6	122
10	Arabidopsis J-Protein J20 Delivers the First Enzyme of the Plastidial Isoprenoid Pathway to Protein Quality Control. Plant Cell, 2013, 25, 4183-4194.	6.6	90
11	PLEIOTROPIC REGULATORY LOCUS 1 (PRL1) Integrates the Regulation of Sugar Responses with Isoprenoid Metabolism in Arabidopsis. Molecular Plant, 2010, 3, 101-112.	8.3	64
12	Comparative transcriptional profiling analysis of developing melon (Cucumis melo L.) fruit from climacteric and non-climacteric varieties. BMC Genomics, 2015, 16, 440.	2.8	62
13	A single gene encodes isopentenyl diphosphate isomerase isoforms targeted to plastids, mitochondria and peroxisomes in Catharanthus roseus. Plant Molecular Biology, 2012, 79, 443-459.	3.9	60
14	The 2-C-methylerythritol 4-phosphate pathway in melon is regulated by specialized isoforms for the first and last steps. Journal of Experimental Botany, 2014, 65, 5077-5092.	4.8	54
15	Monoterpene Synthases of Loblolly Pine (Pinus taeda) Produce Pinene Isomers and Enantiomers. Archives of Biochemistry and Biophysics, 1999, 372, 197-204.	3.0	50
16	The diversion of 2â€Câ€methylâ€<scp>d</scp>â€erythritolâ€2,4â€cyclodiphosphate from the 2â€Câ€methylâ€<scp>d</scp>â€erythritol 4â€phosphate pathway to hemiterpene glycosides mediates stress responses in Arabidopsis thaliana. Plant Journal, 2015, 82, 122-137.	5.7	48
17	Evaluation of Candidate Reference Genes for Real-Time Quantitative PCR of Plant Samples Using Purified cDNA as Template. Plant Molecular Biology Reporter, 2009, 27, 407-416.	1.8	38
18	Differential Subplastidial Localization and Turnover of Enzymes Involved in Isoprenoid Biosynthesis in Chloroplasts. PLoS ONE, 2016, 11, e0150539.	2.5	33

#	Article	IF	Citations
19	Negative regulation of plastidial isoprenoid pathway by herbivore-induced Î²-cyclocitral in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	30
20	Genetic dissection of climacteric fruit ripening in a melon population segregating for ripening behavior. Horticulture Research, 2020, 7, 187.	6.3	29
21	Nonâ€invasive quantification of ethylene in attached fruit headspace at 1Âp.p.b. by gas chromatographyâ€“mass spectrometry. Plant Journal, 2017, 91, 172-183.	5.7	26
22	Molecular Regulation of Induced Terpenoid Biosynthesis in Conifers. Phytochemistry Reviews, 2006, 5, 179-189.	6.5	22
23	Production of plant bioactive triterpenoid saponins: from metabolites to genes and back. Phytochemistry Reviews, 2021, 20, 461-482.	6.5	20
24	Cellular and Subcellular Compartmentation of the 2C-Methyl-D-Erythritol 4-Phosphate Pathway in the Madagascar Periwinkle. Plants, 2020, 9, 462.	3.5	19
25	Distinct metabolic pathways drive monoterpenoid biosynthesis in a natural population of Pelargonium graveolens. Journal of Experimental Botany, 2020, 71, 258-271.	4.8	18
26	The plastidial metabolite 2â€Câ€methylâ€Dâ€erythritolâ€2,4â€cyclodiphosphate modulates defence responses against aphids. Plant, Cell and Environment, 2019, 42, 2309-2323.	5.7	15
27	Structural diversity and biosynthesis of plant derived p-menthane monoterpenes. Phytochemistry Reviews, 2021, 20, 433-459.	6.5	12
28	Cytosolic geraniol and citronellol biosynthesis require a Nudix hydrolase in roseâ€scented geranium (Pelargonium graveolens). Plant Journal, 2021, 107, 493-510.	5.7	12
29	Isotope ratio-based quantification of carbon assimilation highlights the role of plastidial isoprenoid precursor availability in photosynthesis. Plant Methods, 2021, 17, 32.	4.3	7
30	Nerolidol production in agroinfiltrated tobacco: Impact of protein stability and membrane targeting of strawberry (Fragraria ananassa) NEROLIDOL SYNTHASE1. Plant Science, 2018, 267, 112-123.	3.6	4
31	A Late Miocene to Late Pleistocene Reconstruction of Precipitation Isotopes and Climate From Hydrated Volcanic Glass Shards and Biomarkers in Central Alaska and Yukon. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003791.	2.9	4
32	An Arabidopsis GCMS chemical ionization technique to quantify adaptive responses in central metabolism. Plant Physiology, 2022, 189, 2072-2090.	4.8	4
33	Design and fabrication of an improved dynamic flow cuvette for 13CO2 labeling in Arabidopsis plants. Plant Methods, 2022, 18, 40.	4.3	3
34	Soapbark Triterpenes: Quillaja brasiliensis Cell Culture Sapogenin and Free Sterol Analysis by GCMS. Methods in Molecular Biology, 2022, 2469, 119-128.	0.9	1