

Mark Lange

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

7,671
citations

31
h-index

87
g-index

96
ext. papers

8,542
ext. citations

8.1
avg, IF

5.71
L-index

#	Paper	IF	Citations
76	A draft sequence of the rice genome (<i>Oryza sativa</i> L. ssp. japonica). <i>Science</i> , 2002 , 296, 92-100	33.3	2591
75	Potential of metabolomics as a functional genomics tool. <i>Trends in Plant Science</i> , 2004 , 9, 418-25	13.1	627
74	Isoprenoid biosynthesis: the evolution of two ancient and distinct pathways across genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 13172-7	11.5	606
73	Proteomic survey of metabolic pathways in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11969-74	11.5	360
72	A family of transketolases that directs isoprenoid biosynthesis via a mevalonate-independent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2100-4	11.5	317
71	Probing essential oil biosynthesis and secretion by functional evaluation of expressed sequence tags from mint glandular trichomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2934-9	11.5	265
70	A proposed framework for the description of plant metabolomics experiments and their results. <i>Nature Biotechnology</i> , 2004 , 22, 1601-6	44.5	260
69	Transcriptional regulators of stamen development in Arabidopsis identified by transcriptional profiling. <i>Plant Journal</i> , 2006 , 46, 984-1008	6.9	250
68	Genome organization in Arabidopsis thaliana: a survey for genes involved in isoprenoid and chlorophyll metabolism. <i>Plant Molecular Biology</i> , 2003 , 51, 925-48	4.6	195
67	Isoprenoid biosynthesis via a mevalonate-independent pathway in plants: cloning and heterologous expression of 1-deoxy-D-xylulose-5-phosphate reductoisomerase from peppermint. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 365, 170-4	4.1	140
66	Metabolic engineering of plant monoterpenes, sesquiterpenes and diterpenes--current status and future opportunities. <i>Plant Biotechnology Journal</i> , 2013 , 11, 169-96	11.6	126
65	Terpenoid biosynthesis in trichomes--current status and future opportunities. <i>Plant Biotechnology Journal</i> , 2013 , 11, 2-22	11.6	111
64	Improving peppermint essential oil yield and composition by metabolic engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16944-9	11.5	106
63	The evolution of plant secretory structures and emergence of terpenoid chemical diversity. <i>Annual Review of Plant Biology</i> , 2015 , 66, 139-59	30.7	105
62	A systems biology approach identifies the biochemical mechanisms regulating monoterpene essential oil composition in peppermint. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2818-23	11.5	97
61	Isopentenyl diphosphate biosynthesis via a mevalonate-independent pathway: isopentenyl monophosphate kinase catalyzes the terminal enzymatic step. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 13714-9	11.5	97
60	Minimum reporting standards for plant biology context information in metabolomic studies. <i>Metabolomics</i> , 2007 , 3, 195-201	4.7	96

59	Open-access metabolomics databases for natural product research: present capabilities and future potential. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 22	5.8	89
58	PlantMetabolomics.org: a web portal for plant metabolomics experiments. <i>Plant Physiology</i> , 2010 , 152, 1807-16	6.6	89
57	Experimental and mathematical approaches to modeling plant metabolic networks. <i>Phytochemistry</i> , 2007 , 68, 2351-74	4	89
56	Metabolomics as a Hypothesis-Generating Functional Genomics Tool for the Annotation of Arabidopsis thaliana Genes of "Unknown Function". <i>Frontiers in Plant Science</i> , 2012 , 3, 15	6.2	73
55	Isoprenoid biosynthesis. Metabolite profiling of peppermint oil gland secretory cells and application to herbicide target analysis. <i>Plant Physiology</i> , 2001 , 127, 305-14	6.6	72
54	Assessing the biosynthetic capabilities of secretory glands in Citrus peel. <i>Plant Physiology</i> , 2012 , 159, 81-94	6.6	64
53	Comprehensive post-genomic data analysis approaches integrating biochemical pathway maps. <i>Phytochemistry</i> , 2005 , 66, 413-51	4	61
52	Integrative analysis of transcript and metabolite profiling data sets to evaluate the regulation of biochemical pathways during photomorphogenesis. <i>Archives of Biochemistry and Biophysics</i> , 2006 , 448, 45-59	4.1	57
51	Gene Networks Underlying Cannabinoid and Terpenoid Accumulation in Cannabis. <i>Plant Physiology</i> , 2019 , 180, 1877-1897	6.6	56
50	Draft Genome Sequence of Mentha longifolia and Development of Resources for Mint Cultivar Improvement. <i>Molecular Plant</i> , 2017 , 10, 323-339	14.4	49
49	Functional analysis of (4S)-limonene synthase mutants reveals determinants of catalytic outcome in a model monoterpene synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3332-7	11.5	46
48	Mathematical modeling-guided evaluation of biochemical, developmental, environmental, and genotypic determinants of essential oil composition and yield in peppermint leaves. <i>Plant Physiology</i> , 2010 , 152, 2105-19	6.6	42
47	Accurate mass-time tag library for LC/MS-based metabolite profiling of medicinal plants. <i>Phytochemistry</i> , 2013 , 91, 187-97	4	36
46	Metabolite profiling of Calvin cycle intermediates by HPLC-MS using mixed-mode stationary phases. <i>Plant Journal</i> , 2008 , 55, 1047-60	6.9	31
45	Abscisic acid-induced modulation of metabolic and redox control pathways in Arabidopsis thaliana. <i>Phytochemistry</i> , 2008 , 69, 2899-911	4	31
44	Integrative Approaches for the Identification and Localization of Specialized Metabolites in Tripterygium Roots. <i>Plant Physiology</i> , 2017 , 173, 456-469	6.6	30
43	Biosynthesis and Biotechnology of High-Value p-Menthane Monoterpenes, Including Menthol, Carvone, and Limonene. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015 , 148, 319-53	1.7	28
42	Single-cell genomics. <i>Current Opinion in Plant Biology</i> , 2005 , 8, 236-41	9.9	28

41	Multiple levels of regulation determine monoterpene essential oil compositional variation in the mint family. <i>Molecular Plant</i> , 2015 , 8, 188-91	14.4	25
40	Counting the cost of a cold-blooded life: metabolomics of cold acclimation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14996-7	11.5	24
39	Biosynthesis of Diterpenoids in Adventitious Root Cultures. <i>Plant Physiology</i> , 2017 , 175, 92-103	6.6	22
38	Comprehensive Assessment of Transcriptional Regulation Facilitates Metabolic Engineering of Isoprenoid Accumulation in Arabidopsis. <i>Plant Physiology</i> , 2015 , 169, 1595-606	6.6	21
37	Patterns of metabolite changes identified from large-scale gene perturbations in Arabidopsis using a genome-scale metabolic network. <i>Plant Physiology</i> , 2015 , 167, 1685-98	6.6	20
36	Morphology of glandular trichomes of Japanese catnip (<i>Schizonepeta tenuifolia</i> Briquet) and developmental dynamics of their secretory activity. <i>Phytochemistry</i> , 2018 , 150, 23-30	4	20
35	NMR spectroscopic search module for Spektraris, an online resource for plant natural product identification--Taxane diterpenoids from <i>Taxus</i> media cell suspension cultures as a case study. <i>Phytochemistry</i> , 2015 , 113, 87-95	4	20
34	Assessment of flux through oleoresin biosynthesis in epithelial cells of loblolly pine resin ducts. <i>Journal of Experimental Botany</i> , 2019 , 70, 217-230	7	14
33	Bioenergetics of Monoterpene Essential Oil Biosynthesis in Nonphotosynthetic Glandular Trichomes. <i>Plant Physiology</i> , 2017 , 175, 681-695	6.6	13
32	Misexpression of the Niemann-Pick disease type C1 (NPC1)-like protein in Arabidopsis causes sphingolipid accumulation and reproductive defects. <i>Planta</i> , 2015 , 242, 921-33	4.7	13
31	Integrative analysis of metabolic networks: from peaks to flux models?. <i>Current Opinion in Plant Biology</i> , 2006 , 9, 220-6	9.9	12
30	Experimental sink removal induces stress responses, including shifts in amino acid and phenylpropanoid metabolism, in soybean leaves. <i>Planta</i> , 2012 , 235, 939-54	4.7	11
29	Enzymology of monoterpene functionalization in glandular trichomes. <i>Journal of Experimental Botany</i> , 2019 , 70, 1095-1108	7	10
28	Assessing Flux Distribution Associated with Metabolic Specialization of Glandular Trichomes. <i>Trends in Plant Science</i> , 2018 , 23, 638-647	13.1	9
27	Validation of a microscale extraction and high-throughput UHPLC-QTOF-MS analysis method for huperzine A in <i>Huperzia</i> . <i>Biomedical Chromatography</i> , 2012 , 26, 1191-5	1.7	9
26	Genetic diversity survey of <i>Mentha aquatica</i> L. and <i>Mentha suaveolens</i> Ehrh., mint crop ancestors. <i>Genetic Resources and Crop Evolution</i> , 2019 , 66, 825-845	2	7
25	Ultrastructure of Grapefruit Secretory Cavities and Immunocytochemical Localization of (+)-Limonene Synthase. <i>International Journal of Plant Sciences</i> , 2015 , 176, 643-661	2.6	7
24	Biochemical characterization of acyl activating enzymes for side chain moieties of Taxol and its analogs. <i>Journal of Biological Chemistry</i> , 2020 , 295, 4963-4973	5.4	7

23	Rapid purification of gram quantities of β -sitosterol from a commercial phytosterol mixture. <i>BMC Research Notes</i> , 2014 , 7, 182	2.3	7
22	Crop Wild Relatives as Germplasm Resource for Cultivar Improvement in Mint (<i>L.</i>). <i>Frontiers in Plant Science</i> , 2020 , 11, 1217	6.2	7
21	Assessing Chemical Diversity in (<i>L.</i>) Beauv., a Pantropical Whisk Fern That Has Lost Many of Its Fern-Like Characters. <i>Frontiers in Plant Science</i> , 2019 , 10, 868	6.2	6
20	Metabolic shifts associated with drought-induced senescence in <i>Brachypodium</i> . <i>Plant Science</i> , 2019 , 289, 110278	5.3	6
19	Genome-Wide Analysis of Terpene Synthase Gene Family in and Catalytic Activity Analysis of a Single Terpene Synthase. <i>Genes</i> , 2021 , 12,	4.2	6
18	Sample preparation for single cell transcriptomics: essential oil glands in Citrus fruit peel as an example. <i>Methods in Molecular Biology</i> , 2014 , 1153, 203-12	1.4	5
17	Determinants of Enantiospecificity in Limonene Synthases. <i>Biochemistry</i> , 2020 , 59, 1661-1664	3.2	5
16	Commercial-Scale Tissue Culture for the Production of Plant Natural Products: Successes, Failures and Outlook 2018 , 189-218		5
15	bHLH093/NFL and bHLH061 are required for apical meristem function in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2018 , 13, e1486146	2.5	5
14	Online resources for gene discovery and biochemical research with aromatic and medicinal plants. <i>Phytochemistry Reviews</i> , 2016 , 15, 489-510	7.7	4
13	Kinetic modeling of plant metabolism and its predictive power: peppermint essential oil biosynthesis as an example. <i>Methods in Molecular Biology</i> , 2014 , 1083, 287-311	1.4	4
12	Cell Type-Specific Transcriptome Analysis of the Soybean Leaf Paraveinal Mesophyll Layer. <i>Plant Molecular Biology Reporter</i> , 2013 , 31, 210-221	1.7	4
11	Soybean vegetative lipoxygenases are not vacuolar storage proteins. <i>Functional Plant Biology</i> , 2011 , 38, 778-787	2.7	4
10	Generation and Functional Evaluation of Designer Monoterpene Synthases. <i>Methods in Enzymology</i> , 2016 , 576, 147-65	1.7	4
9	Altering potato isoprenoid metabolism increases biomass and induces early flowering. <i>Journal of Experimental Botany</i> , 2020 , 71, 4109-4124	7	3
8	Taxanes and taxoids of the genus <i>Taxus</i> - A comprehensive inventory of chemical diversity. <i>Phytochemistry</i> , 2021 , 190, 112829	4	3
7	National Academies report has broad support. <i>Nature Biotechnology</i> , 2017 , 35, 304-306	44.5	2
6	Flavonoid Deficiency Disrupts Redox Homeostasis and Terpenoid Biosynthesis in Glandular Trichomes of Tomato. <i>Plant Physiology</i> , 2021 ,	6.6	2

5	Functional Characterization and Structural Insights Into Stereoselectivity of Pulegone Reductase in Menthol Biosynthesis.. <i>Frontiers in Plant Science</i> , 2021 , 12, 780970	6.2	1
4	Comprehensive inventory of cannabinoids in <i>Cannabis sativa</i> L.: Can we connect genotype and chemotype?. <i>Phytochemistry Reviews</i> ,1	7.7	1
3	Differential Accumulation of Metabolites and Transcripts Related to Flavonoid, Styrylpyrone, and Galactolipid Biosynthesis in <i>Equisetum</i> Species and Tissue Types. <i>Metabolites</i> , 2022 , 12, 403	5.6	1
2	Selectivity of enzymes involved in the formation of opposite enantiomeric series of p-menthane monoterpenoids in peppermint and Japanese catnip.. <i>Plant Science</i> , 2022 , 314, 111119	5.3	0
1	Chapter six Genomic survey of metabolic pathways in rice. <i>Recent Advances in Phytochemistry</i> , 2004 , 38, 111-137		