M David Marks

List of Publications by Year
in descending order

66 papers	7,741 citations	81900 39 h-index	102487 66 g-index
72 all docs	72 docs citations	72 times ranked	5194 citing authors

#	Article	IF	Citations
1	The TRANSPARENT TESTA GLABRA1 Locus, Which Regulates Trichome Differentiation and Anthocyanin Biosynthesis in Arabidopsis, Encodes a WD40 Repeat Protein. Plant Cell, 1999, 11, 1337-1349.	6.6	905
2	A myb gene required for leaf trichome differentiation in Arabidopsis is expressed in stipules. Cell, 1991, 67, 483-493.	28.9	613
3	The GLABRA2 gene encodes a homeo domain protein required for normal trichome development in Arabidopsis.. Genes and Development, 1994, 8, 1388-1399.	5.9	525
4	Agrobacterium-mediated transformation of germinating seeds of Arabidopsis thaliana: A non-tissue culture approach. Molecular Genetics and Genomics, 1987, 208, 1-9.	2.4	407
5	Role of a positive regulator of root hair development,CAPRICE,inArabidopsisroot epidermal cell differentiation. Development (Cambridge), 2002, 129, 5409-5419.	2.5	303
6	A Dwarf Mutant of Arabidopsis Generated by T-DNA Insertion Mutagenesis. Science, 1989, 243, 1351-1354.	12.6	292
7	Essential role of a kinesin-like protein in Arabidopsis trichome morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6261-6266.	7.1	243
8	Progress in the molecular genetic analysis of trichome initiation and morphogenesis in Arabidopsis. Trends in Plant Science, 2000, 5, 214-219.	8.8	228
9	The Arabidopsis SPIKE1 Gene Is Required for Normal Cell Shape Control and Tissue Development. Plant Cell, 2002, 14, 101-118.	6.6	221
10	Epidermal cell fate and patterning in leaves.. Plant Cell, 1997, 9, 1109-1120.	6.6	197
11	Arabidopsis GLABROUS1 Gene Requires Downstream Sequences for Function.. Plant Cell, 1993, 5, 1739-1748.	6.6	193
12	Organized F-Actin Is Essential for Normal Trichome Morphogenesis in Arabidopsis. Plant Cell, 1999, 11, 2331-2347.	6.6	191
13	Roles of the GLABROUS1 and TRANSPARENT TESTA GLABRA Genes in Arabidopsis Trichome Development.. Plant Cell, 1994, 6, 1065-1076.	6.6	187
14	A contradictory GLABRA3 allele helps define gene interactions controlling trichome development in Arabidopsis. Development (Cambridge), 2003, 130, 5885-5894.	2.5	186
15	MOLECULAR GENETIC ANALYSIS OF TRICHOME DEVELOPMENT IN ARABIDOPSIS. Annual Review of Plant Biology, 1997, 48, 137-163.	14.3	168
16	A Common Position-Dependent Mechanism Controls Cell-Type Patterning and GLABRA2 Regulation in the Root and Hypocotyl Epidermis of Arabidopsis1. Plant Physiology, 1998, 117, 73-84.	4.8	162
17	Transcriptome Analysis of Arabidopsis Wild-Type and gl3â€“sst sim Trichomes Identifies Four Additional Genes Required for Trichome Development. Molecular Plant, 2009, 2, 803-822.	8.3	146
18	Gene duplication and divergence affecting drug content in <i>Cannabis sativa</i>. New Phytologist, 2015, 208, 1241-1250.	7.3	146

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19	A WD40 Repeat Protein from<i>Medicago truncatula</i>Is Necessary for Tissue-Specific Anthocyanin and Proanthocyanidin Biosynthesis But Not for Trichome Development Â Â. Plant Physiology, 2009, 151, 1114-1129.	4.8	137
20	GLABROUS1 Overexpression and TRIPTYCHON Alter the Cell Cycle and Trichome Cell Fate in Arabidopsis. Plant Cell, 1998, 10, 2047-2062.	6.6	135
21	Identification of candidate genes affecting Î”9-tetrahydrocannabinol biosynthesis in Cannabis sativa. Journal of Experimental Botany, 2009, 60, 3715-3726.	4.8	130
22	Distortion of trichome morphology by the hairless mutation of tomato affects leaf surface chemistry. Journal of Experimental Botany, 2010, 61, 1053-1064.	4.8	127
23	Comparison of TRY and the closely related At1g01380 gene in controlling Arabidopsis trichome patterning. Plant Journal, 2004, 40, 860-869.	5.7	119
24	Organized F-Actin Is Essential for Normal Trichome Morphogenesis in Arabidopsis. Plant Cell, 1999, 11, 2331.	6.6	118
25	New approaches to facilitate rapid domestication of a wild plant to an oilseed crop: Example pennycress (Thlaspi arvense L.). Plant Science, 2014, 227, 122-132.	3.6	112
26	A Pipeline Strategy for Grain Crop Domestication. Crop Science, 2016, 56, 917-930.	1.8	101
27	TrichOME: A Comparative Omics Database for Plant Trichomes Â Â Â. Plant Physiology, 2009, 152, 44-54.	4.8	98
28	A draft genome of field pennycress (Thlaspi arvense) provides tools for the domestication of a new winter biofuel crop. DNA Research, 2015, 22, 121-131.	3.4	86
29	Phylogenetically Distinct Cellulose Synthase Genes Support Secondary Wall Thickening in Arabidopsis Shoot Trichomes and Cotton Fiber. Journal of Integrative Plant Biology, 2010, 52, 205-220.	8.5	84
30	Roles of the GLABROUS1 and TRANSPARENT TESTA GLABRA Genes in Arabidopsis Trichome Development. Plant Cell, 1994, 6, 1065.	6.6	79
31	Molecular tools enabling pennycress (<i>Thlaspi arvense</i>) as a model plant and oilseed cash cover crop. Plant Biotechnology Journal, 2019, 17, 776-788.	8.3	75
32	<i><scp>D</scp>e novo</i> assembly of the pennycress (<i><scp>T</scp>hlaspi arvense</i>) transcriptome provides tools for the development of a winter cover crop and biodiesel feedstock. Plant Journal, 2013, 75, 1028-1038.	5.7	73
33	A new method for isolating large quantities of Arabidopsis trichomes for transcriptome, cell wall and other types of analyses. Plant Journal, 2008, 56, 483-492.	5.7	72
34	Rapid and efficient regeneration of plants from explants of Arabidopsis thaliana. Plant Science, 1986, 47, 63-69.	3.6	71
35	The relatively large beta-tubulin gene family of Arabidopsis contains a member with an unusual transcribed 5? noncoding sequence. Plant Molecular Biology, 1987, 10, 91-104.	3.9	68
36	Perennial Grain and Oilseed Crops. Annual Review of Plant Biology, 2016, 67, 703-729.	18.7	68

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37	The zein proteins of maize endosperm. Trends in Biochemical Sciences, 1984, 9, 306-308.	7.5	60
38	Analysis of purified glabra3-shapeshifter trichomes reveals a role for NOECK in regulating early trichome morphogenic events. Plant Journal, 2010, 64, 304-317.	5.7	56
39	Identification and stacking of crucial traits required for the domestication of pennycress. Nature Food, 2020, 1, 84-91.	14.0	54
40	Arabidopsis GLABROUS1 Gene Requires Downstream Sequences for Function. Plant Cell, 1993, 5, 1739.	6.6	45
41	Characterization of a weak allele of the GL1 gene of Arabidopsis thaliana. Plant Molecular Biology, 1994, 24, 203-207.	3.9	37
42	Translational genomics using Arabidopsis as a model enables the characterization of pennycress genes through forward and reverse genetics. Plant Journal, 2018, 96, 1093-1105.	5.7	35
43	Trichome Development in Arabidopsis thaliana. I. T-DNA Tagging of the GLABROUS1 Gene. Plant Cell, 1989, 1, 1043.	6.6	34
44	Molecular cloning and physical characterization of a Brassica linear mitochondrial plasmid. Molecular Genetics and Genomics, 1987, 209, 227-233.	2.4	31
45	cot1: A Regulator of Arabidopsis Trichome Initiation. Genetics, 1998, 149, 565-577.	2.9	28
46	Expression of <i>FLOWERING LOCUS C</i> and a frameshift mutation of this gene on chromosome 20 differentiate a summer and winter annual biotype of <i>Camelina sativa</i>. Plant Direct, 2018, 2, e00060.	1.9	26
47	The adaptable use of Brassica NIRS calibration equations to identify pennycress variants to facilitate the rapid domestication of a new winter oilseed crop. Industrial Crops and Products, 2019, 128, 55-61.	5.2	25
48	Initiating inhibition. EMBO Reports, 2003, 4, 24-25.	4.5	24
49	The pennycress (Thlaspi arvense L.) nectary: structural and transcriptomic characterization. BMC Plant Biology, 2017, 17, 201.	3.6	23
50	The GL1 Gene and the Trichome Developmental Pathway in Arabidopsis thaliana. Results and Problems in Cell Differentiation, 1994, 20, 259-275.	0.7	23
51	Genetic Diversity of Field Pennycress (Thlaspi arvense) Reveals Untapped Variability and Paths Toward Selection for Domestication. Agronomy, 2019, 9, 302.	3.0	21
52	Plant Development: The making of a plant hair. Current Biology, 1994, 4, 621-623.	3.9	18
53	Chromosomeâ€level <i>Thlaspi arvense</i> genome provides new tools for translational research and for a newly domesticated cash cover crop of the cooler climates. Plant Biotechnology Journal, 2022, 20, 944-963.	8.3	18
54	The TRANSPARENT TESTA GLABRA1 Locus, Which Regulates Trichome Differentiation and Anthocyanin Biosynthesis in Arabidopsis, Encodes a WD40 Repeat Protein. Plant Cell, 1999, 11, 1337.	6.6	15

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55	Tissue patterning ofArabidopsiscotyledons. New Phytologist, 2002, 153, 461-467.	7.3	14
56	Sustainable commercialization of new crops for the agricultural bioeconomy. Elementa, 2016, 4, .	3.2	14
57	Genetic interaction between <i>glabra3â€shapeshifter</i> and <i>siamese</i> in <i>Arabidopsis thaliana</i> converts trichome precursors into cells with meristematic activity. Plant Journal, 2007, 52, 352-361.	5.7	13
58	Spring flowering habit in field pennycress (<i>Thlaspi arvense</i>) has arisen multiple independent times. Plant Direct, 2018, 2, e00097.	1.9	13
59	Technologies enabling rapid crop improvements for sustainable agriculture: example pennycress (<i>Thlaspi arvense</i> L.). Emerging Topics in Life Sciences, 2021, 5, 325-335.	2.6	11
60	Assignment of the temperature-sensitive lesion in the replication mutant A1 of vesicular stomatitis virus to the N gene. Journal of Virology, 1985, 53, 44-51.	3.4	7
61	E2F and retinoblastoma related proteins may regulate<i>GL1</i>expression in developing Arabidopsis trichomes. Plant Signaling and Behavior, 2008, 3, 420-422.	2.4	5
62	Combined genotype and fatty-acid analysis of single small field pennycress (Thlaspi arvense) seeds increases the throughput for functional genomics and mutant line selection. Industrial Crops and Products, 2020, 156, 112823.	5.2	5
63	TRANSPARENT TESTA 2 allele confers major reduction in pennycress (Thlaspi arvense L.) seed dormancy. Industrial Crops and Products, 2021, 174, 114216.	5.2	5
64	Genetic dissection of seed characteristics in field pennycress via genomeâ€wide association mapping studies. Plant Genome, 2022, 15, e20211.	2.8	4
65	Functional Relationships within the New Jersey Serotype of Vesicular Stomatitis Virus: Genetic and Physiological Comparisons of the Hazelhurst and Concan Subtypes. Journal of General Virology, 1984, 65, 1769-1779.	2.9	2
66	Emerging Crops with Enhanced Ecosystem Services: Progress in Breeding and Processing for Food Use. Cereal Foods World, 2020, 65, .	0.2	2