Maria J Harrison

List of Publications by Year
in descending order

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80

papers

12,989

citations

26630

56

h-index

66911

78

g-index

85

all docs

85

docs citations

85

times ranked

7610

citing authors

#	ARTICLE	IF	CITATIONS
1	Fifteen compelling open questions in plant cell biology. Plant Cell, 2022, 34, 72-102.	6.6	27
2	<scp><i>KIN3</i></scp> impacts arbuscular mycorrhizal symbiosis and promotes fungal colonisation in <i>Medicago truncatula</i>. Plant Journal, 2022, 110, 513-528.	5.7	9
3	A genetically encoded biosensor reveals spatiotemporal variation in cellular phosphate content in <i>Brachypodium distachyon</i> mycorrhizal roots. New Phytologist, 2022, 234, 1817-1831.	7.3	4
4	Conserved and reproducible bacterial communities associate with extraradical hyphae of arbuscular mycorrhizal fungi. ISME Journal, 2021, 15, 2276-2288.	9.8	91
5	Constitutive Overexpression of RAM1 Leads to an Increase in Arbuscule Density in Brachypodium distachyon. Plant Physiology, 2020, 184, 1263-1272.	4.8	11
6	A CLEâ€“SUNN module regulates strigolactone content and fungal colonization in arbuscular mycorrhiza. Nature Plants, 2019, 5, 933-939.	9.3	65
7	Phytohormones, miRNAs, and peptide signals integrate plant phosphorus status with arbuscular mycorrhizal symbiosis. Current Opinion in Plant Biology, 2019, 50, 132-139.	7.1	70
8	A Phosphate-Dependent Requirement for Transcription Factors IPD3 and IPD3L During Arbuscular Mycorrhizal Symbiosis in <i>Medicago truncatula</i>. Molecular Plant-Microbe Interactions, 2019, 32, 1277-1290.	2.6	11
9	Extensive membrane systems at the hostâ€“arbuscular mycorrhizal fungus interface. Nature Plants, 2019, 5, 194-203.	9.3	85
10	Transcriptomic analysis of field-droughted sorghum from seedling to maturity reveals biotic and metabolic responses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 27124-27132.	7.1	129
11	Diverse <scp><i>Sorghum bicolor</i></scp> accessions show marked variation in growth and transcriptional responses to arbuscular mycorrhizal fungi. Plant, Cell and Environment, 2019, 42, 1758-1774.	5.7	60
12	Accumulation of phosphoinositides in distinct regions of the periarbuscular membrane. New Phytologist, 2019, 221, 2213-2227.	7.3	24
13	Genome and evolution of the arbuscular mycorrhizal fungus <i>Diversispora epigaea</i> (formerly) Tj ETQq1 1 0.784314 rgBT /Overlo	7.3	88
14	A short LysM protein with high molecular diversity from an arbuscular mycorrhizal fungus, Rhizophagus irregularis. Mycoscience, 2019, 60, 63-70.	0.8	15
15	RiArsB and RiMT-11: Two novel genes induced by arsenate in arbuscular mycorrhiza. Fungal Biology, 2018, 122, 121-130.	2.5	13
16	Blumenols as shoot markers of root symbiosis with arbuscular mycorrhizal fungi. ELife, 2018, 7, .	6.0	69
17	Exocytosis for endosymbiosis: membrane trafficking pathways for development of symbiotic membrane compartments. Current Opinion in Plant Biology, 2017, 38, 101-108.	7.1	54
18	Arbuscular mycorrhizaâ€•specific enzymes FatM and <scp>RAM</scp>2 fineâ€•tune lipid biosynthesis to promote development of arbuscular mycorrhiza. New Phytologist, 2017, 214, 1631-1645.	7.3	260

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19	A Transcriptional Program for Arbuscule Degeneration during AM Symbiosis Is Regulated by MYB1. Current Biology, 2017, 27, 1206-1212.	3.9	110
20	Plant Signaling and Metabolic Pathways Enabling Arbuscular Mycorrhizal Symbiosis. Plant Cell, 2017, 29, 2319-2335.	6.6	241
21	A comprehensive draft genome sequence for lupin (<i>Lupinus angustifolius</i>), an emerging health food: insights into plantâ€“microbe interactions and legume evolution. Plant Biotechnology Journal, 2017, 15, 318-330.	8.3	153
22	Genes conserved for arbuscular mycorrhizal symbiosis identified through phylogenomics. Nature Plants, 2016, 2, 15208.	9.3	206
23	DELLA proteins regulate expression of a subset of AM symbiosis-induced genes in<i>Medicago truncatula</i>. Plant Signaling and Behavior, 2016, 11, e1162369.	2.4	23
24	A CCaMK-CYCLOPS-DELLA Complex Activates Transcription of RAM1 to Regulate Arbuscule Branching. Current Biology, 2016, 26, 987-998.	3.9	182
25	EXO70I Is Required for Development of a Sub-domain of the Periarbuscular Membrane during Arbuscular Mycorrhizal Symbiosis. Current Biology, 2015, 25, 2189-2195.	3.9	120
26	Suppression of Arbuscule Degeneration in <i>Medicago truncatula phosphate transporter4</i> Mutants Is Dependent on the Ammonium Transporter 2 Family Protein AMT2;3. Plant Cell, 2015, 27, 1352-1366.	6.6	180
27	Hyphal branching during arbuscule development requires RAM1. Plant Physiology, 2015, 169, pp.01155.2015.	4.8	94
28	Signaling events during initiation of arbuscular mycorrhizal symbiosis. Journal of Integrative Plant Biology, 2014, 56, 250-261.	8.5	102
29	A set of fluorescent proteinâ€based markers expressed from constitutive and arbuscular mycorrhizaâ€inducible promoters to label organelles, membranes and cytoskeletal elements in <i>Medicago truncatula</i>. Plant Journal, 2014, 80, 1151-1163.	5.7	121
30	Gene Silencing in Medicago truncatula Roots Using RNAi. Methods in Molecular Biology, 2013, 1069, 163-177.	0.9	10
31	DELLA proteins regulate arbuscule formation in arbuscular mycorrhizal symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E5025-34.	7.1	266
32	Polar localization of a symbiosis-specific phosphate transporter is mediated by a transient reorientation of secretion. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E665-72.	7.1	164
33	Cellular programs for arbuscular mycorrhizal symbiosis. Current Opinion in Plant Biology, 2012, 15, 691-698.	7.1	151
34	Diversity of morphology and function in arbuscular mycorrhizal symbioses in Brachypodium distachyon. Planta, 2012, 236, 851-865.	3.2	85
35	The halfâ€size ABC transporters STR1 and STR2 are indispensable for mycorrhizal arbuscule formation in rice. Plant Journal, 2012, 69, 906-920.	5.7	131
36	Arsenate induces the expression of fungal genes involved in As transport in arbuscular mycorrhiza. Fungal Biology, 2011, 115, 1197-1209.	2.5	58

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37	<i>Medicago truncatula mtpt4</i> mutants reveal a role for nitrogen in the regulation of arbuscule degeneration in arbuscular mycorrhizal symbiosis. Plant Journal, 2011, 68, 954-965.	5.7	103
38	Genetic variation for root architecture, nutrient uptake and mycorrhizal colonisation in Medicago truncatula accessions. Plant and Soil, 2010, 336, 113-128.	3.7	13
39	<i>Medicago truncatula</i> Vapyrin is a novel protein required for arbuscular mycorrhizal symbiosis. Plant Journal, 2010, 61, 482-494.	5.7	198
40	Two <i>Medicago truncatula</i> Half-ABC Transporters Are Essential for Arbuscule Development in Arbuscular Mycorrhizal Symbiosis. Plant Cell, 2010, 22, 1483-1497.	6.6	223
41	Phosphate Transporters in Arbuscular Mycorrhizal Symbiosis. , 2010, , 117-135.		12
42	Reprogramming Plant Cells for Endosymbiosis. Science, 2009, 324, 753-754.	12.6	160
43	Live-Cell Imaging Reveals Periarbuscular Membrane Domains and Organelle Location in <i>Medicago truncatula</i> Roots during Arbuscular Mycorrhizal Symbiosis Â Â. Plant Physiology, 2009, 151, 809-819.	4.8	215
44	Medicago truncatula and Glomus intraradices gene expression in cortical cells harboring arbuscules in the arbuscular mycorrhizal symbiosis. BMC Plant Biology, 2009, 9, 10.	3.6	277
45	Laser microdissection and its application to analyze gene expression in arbuscular mycorrhizal symbiosis. Pest Management Science, 2009, 65, 504-511.	3.4	45
46	Novel plant and fungal AGP-like proteins in the Medicago truncatulaâ€"Glomus intraradices arbuscular mycorrhizal symbiosis. Mycorrhiza, 2008, 18, 403-412.	2.8	17
47	The <i>Medicago truncatula</i> ortholog of Arabidopsis EIN2, <i>sickle</i>, is a negative regulator of symbiotic and pathogenic microbial associations. Plant Journal, 2008, 55, 580-595.	5.7	272
48	Closely Related Members of the Medicago truncatula PHT1 Phosphate Transporter Gene Family Encode Phosphate Transporters with Distinct Biochemical Activities. Journal of Biological Chemistry, 2008, 283, 24673-24681.	3.4	87
49	A Medicago truncatula phosphate transporter indispensable for the arbuscular mycorrhizal symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1720-1725.	7.1	634
50	Phosphate in the arbuscular mycorrhizal symbiosis: transport properties and regulatory roles. Plant, Cell and Environment, 2007, 30, 310-322.	5.7	339
51	Arbuscular mycorrhizal symbiosis is accompanied by local and systemic alterations in gene expression and an increase in disease resistance in the shoots. Plant Journal, 2007, 50, 529-544.	5.7	430
52	Loss ofAt4function impacts phosphate distribution between the roots and the shoots during phosphate starvation. Plant Journal, 2006, 45, 712-726.	5.7	205
53	Defensin gene family in Medicago truncatula: structure, expression and induction by signal molecules. Plant Molecular Biology, 2005, 58, 385-399.	3.9	73
54	RNA Interference Identifies a Calcium-Dependent Protein Kinase Involved in Medicago truncatula Root Development. Plant Cell, 2005, 17, 2911-2921.	6.6	147

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55	SIGNALING IN THE ARBUSCULAR MYCORRHIZAL SYMBIOSIS. Annual Review of Microbiology, 2005, 59, 19-42.	7.3	647
56	Expression of a xyloglucan endotransglucosylase/hydrolase gene, Mt-XTH1, from Medicago truncatula is induced systemically in mycorrhizal roots. Gene, 2005, 345, 191-197.	2.2	53
57	Phosphate transport inArabidopsis: Pht1;1 and Pht1;4 play a major role in phosphate acquisition from both low- and high-phosphate environments. Plant Journal, 2004, 39, 629-642.	5.7	719
58	cDNA arrays as a tool to identify mycorrhiza-regulated genes: identification of mycorrhiza-induced genes that encode or generate signaling molecules implicated in the control of root growth. Canadian Journal of Botany, 2004, 82, 1177-1185.	1.1	32
59	A phosphate transporter from Medicago truncatula is expressed in the photosynthetic tissues of the plant and located in the chloroplast envelope. New Phytologist, 2003, 157, 291-302.	7.3	46
60	Transcript Profiling Coupled with Spatial Expression Analyses Reveals Genes Involved in Distinct Developmental Stages of an Arbuscular Mycorrhizal Symbiosis [W]. Plant Cell, 2003, 15, 2106-2123.	6.6	309
61	A Phosphate Transporter from Medicago truncatula Involved in the Acquisition of Phosphate Released by Arbuscular Mycorrhizal Fungi. Plant Cell, 2002, 14, 2413-2429.	6.6	733
62	A Chloroplast Phosphate Transporter, PHT2;1, Influences Allocation of Phosphate within the Plant and Phosphate-Starvation Responses. Plant Cell, 2002, 14, 1751-1766.	6.6	310
63	A Phosphate Transporter Gene from the Extra-Radical Mycelium of an Arbuscular Mycorrhizal Fungus Glomus intraradices Is Regulated in Response to Phosphate in the Environment. Molecular Plant-Microbe Interactions, 2001, 14, 1140-1148.	2.6	261
64	Microtubule organization in root cells ofMedicago truncatula during development of an arbuscular mycorrhizal symbiosis withGlomus versiforme. Protoplasma, 2001, 217, 154-165.	2.1	76
65	The spatial expression patterns of a phosphate transporter (MtPT1) from Medicago truncatula indicate a role in phosphate transport at the root/soil interface. Plant Journal, 2001, 25, 281-293.	5.7	176
66	Biotrophic interfaces and nutrient transport in plant/fungal symbioses. Journal of Experimental Botany, 1999, 50, 1013-1022.	4.8	84
67	Construction and characterization of genomic libraries of two endomycorrhizal fungi: Glomus versiforme and Gigaspora margarita. Mycological Research, 1999, 103, 955-960.	2.5	29
68	MOLECULAR AND CELLULAR ASPECTS OF THE ARBUSCULAR MYCORRHIZAL SYMBIOSIS. Annual Review of Plant Biology, 1999, 50, 361-389.	14.3	397
69	The Down-Regulation of Mt4-Like Genes by Phosphate Fertilization Occurs Systemically and Involves Phosphate Translocation to the Shoots1. Plant Physiology, 1999, 119, 241-248.	4.8	229
70	Novel Genes Induced During an Arbuscular Mycorrhizal (AM) Symbiosis Formed Between Medicago truncatula and Glomus versiforme. Molecular Plant-Microbe Interactions, 1999, 12, 171-181.	2.6	78
71	Development of the arbuscular mycorrhizal symbiosis. Current Opinion in Plant Biology, 1998, 1, 360-365.	7.1	59
72	Characterization of the Mt4 gene from Medicago truncatula. Gene, 1998, 216, 47-53.	2.2	45

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73	Cloning and Characterization of Two Phosphate Transporters from Medicago truncatula Roots: Regulation in Response to Phosphate and to Colonization by Arbuscular Mycorrhizal (AM) Fungi. Molecular Plant-Microbe Interactions, 1998, 11, 14-22.	2.6	264
74	The arbuscular mycorrhizal symbiosis: an underground association. Trends in Plant Science, 1997, 2, 54-60.	8.8	155
75	A novel gene whose expression in Medicago truncatula roots is suppressed in response to colonization by vesicular-arbuscular mycorrhizal (VAM) fungi and to phosphate nutrition. , 1997, 34, 199-208.		113
76	The Arbuscular Mycorrhizal Symbiosis. , 1997, , 1-34.		14
77	A sugar transporter from Medicago truncatula: altered expression pattern in roots during vesicular-arbuscular (VA) mycorrhizal associations. Plant Journal, 1996, 9, 491-503.	5.7	192
78	A phosphate transporter from the mycorrhizal fungus Glomus versiforme. Nature, 1995, 378, 626-629.	27.8	575
79	Spatial patterns of expression of flavonoid/isoflavonoid pathway genes during interactions between roots of Medicago truncatula and the mycorrhizal fungus Glomus versiforme. Plant Journal, 1994, 6, 9-20.	5.7	207
80	Isoflavonoid Accumulation and Expression of Defense Gene Transcripts During the Establishment of Vesicular-Arbuscular Mycorrhizal Associations in Roots of<i>Medicago truncatula</i>. Molecular Plant-Microbe Interactions, 1993, 6, 643.	2.6	244