

John M McDowell

List of Publications by Year in descending order

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54
papers

6,403
citations

126858

33
h-index

175177

52
g-index

58
all docs

58
docs citations

58
times ranked

6514
citing authors

#	ARTICLE	IF	CITATIONS
1	The Top 10 oomycete pathogens in molecular plant pathology. <i>Molecular Plant Pathology</i> , 2015, 16, 413-434.	2.0	695
2	Signatures of Adaptation to Obligate Biotrophy in the <i>Hyaloperonospora arabidopsidis</i> Genome. <i>Science</i> , 2010, 330, 1549-1551.	6.0	492
3	Intragenic Recombination and Diversifying Selection Contribute to the Evolution of Downy Mildew Resistance at the RPP8 Locus of Arabidopsis. <i>Plant Cell</i> , 1998, 10, 1861-1874.	3.1	453
4	Strong, constitutive expression of the Arabidopsis ACT2/ACT8 actin subclass in vegetative tissues. <i>Plant Journal</i> , 1996, 10, 107-121.	2.8	451
5	Signal transduction in the plant immune response. <i>Trends in Biochemical Sciences</i> , 2000, 25, 79-82.	3.7	439
6	Conserved C-Terminal Motifs Required for Avirulence and Suppression of Cell Death by <i>Phytophthora sojae</i> effector Avr1b. <i>Plant Cell</i> , 2008, 20, 1118-1133.	3.1	323
7	Plant disease resistance genes: recent insights and potential applications. <i>Trends in Biotechnology</i> , 2003, 21, 178-183.	4.9	249
8	Downy mildew (<i>Peronospora parasitica</i>) resistance genes in Arabidopsis vary in functional requirements for NDR1, EDS1, NPR1 and salicylic acid accumulation. <i>Plant Journal</i> , 2000, 22, 523-529.	2.8	228
9	Sequence-based identification of T-DNA insertion mutations in Arabidopsis: actin mutants act2-1 and act4-1. <i>Plant Journal</i> , 1995, 8, 613-622.	2.8	218
10	The Ubiquitin Ligase PUB22 Targets a Subunit of the Exocyst Complex Required for PAMP-Triggered Responses in Arabidopsis. <i>Plant Cell</i> , 2012, 24, 4703-4716.	3.1	205
11	A key role for ALD1 in activation of local and systemic defenses in Arabidopsis. <i>Plant Journal</i> , 2004, 40, 200-212.	2.8	198
12	Structure and Evolution of the Actin Gene Family in Arabidopsis thaliana. <i>Genetics</i> , 1996, 142, 587-602.	1.2	196
13	Recent insights into R gene evolution. <i>Molecular Plant Pathology</i> , 2006, 7, 437-448.	2.0	185
14	Regulation and execution of programmed cell death in response to pathogens, stress and developmental cues. <i>Current Opinion in Plant Biology</i> , 2001, 4, 561-567.	3.5	169
15	Crosstalk between the Circadian Clock and Innate Immunity in Arabidopsis. <i>PLoS Pathogens</i> , 2013, 9, e1003370.	2.1	164
16	Recent Progress in RXLR Effector Research. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 1063-1072.	1.4	164
17	Gene Expression Signatures from Three Genetically Separable Resistance Gene Signaling Pathways for Downy Mildew Resistance. <i>Plant Physiology</i> , 2004, 135, 1129-1144.	2.3	128
18	EDM2 is required for RPP7-dependent disease resistance in Arabidopsis and affects RPP7 transcript levels. <i>Plant Journal</i> , 2007, 49, 829-839.	2.8	120

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19	Two modes of pathogen recognition by plants. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8575-8576.	3.3	93
20	Signaling Pathways That Regulate the Enhanced Disease Resistance of <i>Arabidopsis</i> Defense, No Death Mutants. Molecular Plant-Microbe Interactions, 2008, 21, 1285-1296.	1.4	92
21	Homologous RXLR effectors from <i>Hyaloperonospora arabidopsidis</i> and <i>Phytophthora sojae</i> suppress immunity in distantly related plants. Plant Journal, 2012, 72, 882-893.	2.8	88
22	The <i>Arabidopsis</i> Downy Mildew Resistance Gene <i>RPP8</i> Is Induced by Pathogens and Salicylic Acid and Is Regulated by W Box cis Elements. Molecular Plant-Microbe Interactions, 2010, 23, 1303-1315.	1.4	82
23	The <i>Arabidopsis</i> ACT11 actin gene is strongly expressed in tissues of the emerging inflorescence, pollen, and developing ovules. Plant Molecular Biology, 1997, 33, 125-139.	2.0	81
24	Molecular diversity at the plant-pathogen interface. Developmental and Comparative Immunology, 2008, 32, 736-744.	1.0	78
25	The exocyst subunit <i>Exo70B1</i> is involved in the immune response of <i>Arabidopsis thaliana</i> to different pathogens and cell death. Plant Signaling and Behavior, 2013, 8, e27421.	1.2	63
26	Iron homeostasis and plant immune responses: Recent insights and translational implications. Journal of Biological Chemistry, 2020, 295, 13444-13457.	1.6	62
27	Conserved RxLR Effectors From Oomycetes <i>Hyaloperonospora arabidopsidis</i> and <i>Phytophthora sojae</i> Suppress PAMP- and Effector-Triggered Immunity in Diverse Plants. Molecular Plant-Microbe Interactions, 2018, 31, 374-385.	1.4	60
28	The <i>Arabidopsis thaliana</i> ACT4/ACT12 actin gene subclass is strongly expressed throughout pollen development. Plant Journal, 1996, 10, 189-202.	2.8	57
29	The <i>Pseudomonas syringae</i> type III effector <i>AvrRpt2</i> functions downstream or independently of SA to promote virulence on <i>Arabidopsis thaliana</i> . Plant Journal, 2004, 37, 494-504.	2.8	57
30	Genetic Analysis of Developmentally Regulated Resistance to Downy Mildew (<i>Hyaloperonospora</i>)	1.4	53
31	Effector Biology in Focus: A Primer for Computational Prediction and Functional Characterization. Molecular Plant-Microbe Interactions, 2018, 31, 22-33.	1.4	46
32	Genomes of obligate plant pathogens reveal adaptations for obligate parasitism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8921-8922.	3.3	34
33	Draft Assembly of <i>Phytophthora capsici</i> from Long-Read Sequencing Uncovers Complexity. Molecular Plant-Microbe Interactions, 2019, 32, 1559-1563.	1.4	33
34	The <i>Arabidopsis</i> PHD-finger protein EDM2 has multiple roles in balancing NLR immune receptor gene expression. PLoS Genetics, 2020, 16, e1008993.	1.5	33
35	Review: Functional linkages between amino acid transporters and plant responses to pathogens. Plant Science, 2018, 277, 79-88.	1.7	31
36	Oomycetes Used in <i>Arabidopsis</i> Research. The <i>Arabidopsis</i> Book, 2019, 17, e0188.	0.5	30

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37	A <sc>PCR</sc> assay for the quantification of growth of the oomycete pathogen <i><sc>H</sc>yaloperonospora arabidopsidis</i> in <i><sc>A</sc>rabisidopsis thaliana</i>. Molecular Plant Pathology, 2015, 16, 893-898.	2.0	25
38	Propagation, Storage, and Assays with Hyaloperonospora arabidopsidis: A Model Oomycete Pathogen of Arabidopsis. Methods in Molecular Biology, 2011, 712, 137-151.	0.4	24
39	The Arabidopsis <sc>RRM</sc> domain protein <sc>EDM</sc>3 mediates race-specific disease resistance by controlling H3K9me2-dependent alternative polyadenylation of <i><sc>RPP</sc>7</i> immune receptor transcripts. Plant Journal, 2019, 97, 646-660.	2.8	24
40	Genomic and transcriptomic insights into lifestyle transitions of a hemi-biotrophic fungal pathogen. New Phytologist, 2013, 197, 1032-1034.	3.5	19
41	Convergent evolution of disease resistance genes. Trends in Plant Science, 2004, 9, 315-317.	4.3	17
42	Application of alignment-free bioinformatics methods to identify an oomycete protein with structural and functional similarity to the bacterial AvrE effector protein. PLoS ONE, 2018, 13, e0195559.	1.1	16
43	Recent advances in understanding of fungal and oomycete effectors. Current Opinion in Plant Biology, 2022, 68, 102228.	3.5	15
44	A transposable element is domesticated for service in the plant immune system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14821-14822.	3.3	13
45	Focus on Effector-Triggered Susceptibility. Molecular Plant-Microbe Interactions, 2018, 31, 5-5.	1.4	9
46	Increased Expression of UMAMIT Amino Acid Transporters Results in Activation of Salicylic Acid Dependent Stress Response. Frontiers in Plant Science, 2020, 11, 606386.	1.7	9
47	Hyaloperonospora arabidopsidis: A Model Pathogen of Arabidopsis. , 2014, , 209-234.		8
48	Zoospore exudates from Phytophthora nicotianae affect immune responses in Arabidopsis. PLoS ONE, 2017, 12, e0180523.	1.1	6
49	Effect of light and dark on the growth and development of downy mildew pathogen <i><sc>Hyaloperonospora arabidopsidis</i>. Plant Pathology, 2020, 69, 1291-1300.	1.2	6
50	Beleaguered Immunity. Science, 2011, 334, 1354-1355.	6.0	5
51	Focus on Activation, Regulation, and Evolution of MTI and ETI. Molecular Plant-Microbe Interactions, 2019, 32, 5-5.	1.4	4
52	Conserved Expression of the Arabidopsis ACT1 and ACT3 Actin Subclass in Organ Primordia and Mature Pollen. Plant Cell, 1996, 8, 15.	3.1	2
53	A split green fluorescent protein system to enhance spatial and temporal sensitivity of translating ribosome affinity purification. Plant Journal, 2022, 111, 304-315.	2.8	2
54	Focus on Translational Research. Molecular Plant-Microbe Interactions, 2014, 27, 195-195.	1.4	0