

Michael J Holdsworth

List of Publications by Year in descending order

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94
papers

10,367
citations

30070

54
h-index

40979

93
g-index

96
all docs

96
docs citations

96
times ranked

9686
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular networks regulating Arabidopsis seed maturation, after ripening, dormancy and germination. <i>New Phytologist</i> , 2008, 179, 33-54.	7.3	794
2	Homeostatic response to hypoxia is regulated by the N-end rule pathway in plants. <i>Nature</i> , 2011, 479, 415-418.	27.8	576
3	<i>Arabidopsis</i> PYR/PYL/RCAR Receptors Play a Major Role in Quantitative Regulation of Stomatal Aperture and Transcriptional Response to Abscisic Acid. <i>Plant Cell</i> , 2012, 24, 2483-2496.	6.6	493
4	Making sense of low oxygen sensing. <i>Trends in Plant Science</i> , 2012, 17, 129-138.	8.8	465
5	Identifying traits to improve the nitrogen economy of wheat: Recent advances and future prospects. <i>Field Crops Research</i> , 2009, 114, 329-342.	5.1	316
6	Nitric Oxide Sensing in Plants Is Mediated by Proteolytic Control of Group VII ERF Transcription Factors. <i>Molecular Cell</i> , 2014, 53, 369-379.	9.7	312
7	Control of germination and lipid mobilization by COMATOSE, the Arabidopsis homologue of human ALDP. <i>EMBO Journal</i> , 2002, 21, 2912-2922.	7.8	280
8	Jasmonic Acid Levels Are Reduced in COMATOSE ATP-Binding Cassette Transporter Mutants. Implications for Transport of Jasmonate Precursors into Peroxisomes. <i>Plant Physiology</i> , 2005, 137, 835-840.	4.8	248
9	Chewing the fat: β -oxidation in signalling and development. <i>Trends in Plant Science</i> , 2006, 11, 124-132.	8.8	237
10	Interactions of the developmental regulator ABI3 with proteins identified from developing Arabidopsis seeds. <i>Plant Journal</i> , 2000, 21, 143-155.	5.7	210
11	Genome-wide network model capturing seed germination reveals coordinated regulation of plant cellular phase transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9709-9714.	7.1	210
12	Post-genomics dissection of seed dormancy and germination. <i>Trends in Plant Science</i> , 2008, 13, 7-13.	8.8	205
13	Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress. <i>Nature Communications</i> , 2019, 10, 4020.	12.8	195
14	Separate cis sequences and trans factors direct metabolic and developmental regulation of a potato tuber storage protein gene. <i>Plant Journal</i> , 1994, 5, 815-826.	5.7	176
15	Transcriptional Dynamics of Two Seed Compartments with Opposing Roles in Arabidopsis Seed Germination. <i>Plant Physiology</i> , 2013, 163, 205-215.	4.8	175
16	The N-end rule pathway promotes seed germination and establishment through removal of ABA sensitivity in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4549-4554.	7.1	172
17	Mechanical constraints imposed by 3D cellular geometry and arrangement modulate growth patterns in the <i>Arabidopsis</i> embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8685-8690.	7.1	172
18	The eukaryotic N-end rule pathway: conserved mechanisms and diverse functions. <i>Trends in Cell Biology</i> , 2014, 24, 603-611.	7.9	171

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19	Structure and expression of an ethylene-related mRNA from tomato. <i>Nucleic Acids Research</i> , 1987, 15, 731-739.	14.5	169
20	Seed after-ripening is a discrete developmental pathway associated with specific gene networks in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 53, 214-224.	5.7	166
21	SHORT-ROOT Regulates Primary, Lateral, and Adventitious Root Development in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 155, 384-398.	4.8	163
22	A thermodynamic switch modulates abscisic acid receptor sensitivity. <i>EMBO Journal</i> , 2011, 30, 4171-4184.	7.8	161
23	The Scope, Functions, and Dynamics of Posttranslational Protein Modifications. <i>Annual Review of Plant Biology</i> , 2019, 70, 119-151.	18.7	158
24	Group VII Ethylene Response Factors Coordinate Oxygen and Nitric Oxide Signal Transduction and Stress Responses in Plants. <i>Plant Physiology</i> , 2015, 169, 23-31.	4.8	156
25	Geminiviruses and RNA silencing. <i>Trends in Plant Science</i> , 2005, 10, 144-151.	8.8	153
26	Mapping genes for resistance to sprouting damage in wheat. <i>Euphytica</i> , 2002, 126, 39-45.	1.2	149
27	Transgenesis has less impact on the transcriptome of wheat grain than conventional breeding. <i>Plant Biotechnology Journal</i> , 2006, 4, 369-380.	8.3	146
28	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017, 214, 1403-1407.	7.3	146
29	Transcripts of Vp-1 homeologues are misspliced in modern wheat and ancestral species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10203-10208.	7.1	143
30	Oxygen Sensing Coordinates Photomorphogenesis to Facilitate Seedling Survival. <i>Current Biology</i> , 2015, 25, 1483-1488.	3.9	131
31	Genetic map locations for orthologous Vp1 genes in wheat and rice. <i>Theoretical and Applied Genetics</i> , 1999, 98, 281-284.	3.6	129
32	Large-Scale Identification of Gibberellin-Related Transcription Factors Defines Group VII ETHYLENE RESPONSE FACTORS as Functional DELLA Partners. <i>Plant Physiology</i> , 2014, 166, 1022-1032.	4.8	124
33	Enhanced waterlogging tolerance in barley by manipulation of expression of the N-end rule pathway E3 ligase <i>PROTEOLYSIS</i> . <i>Plant Biotechnology Journal</i> , 2016, 14, 40-50.	8.3	122
34	Mathematical modeling elucidates the role of transcriptional feedback in gibberellin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7571-7576.	7.1	119
35	The Cys-Arg/N-End Rule Pathway Is a General Sensor of Abiotic Stress in Flowering Plants. <i>Current Biology</i> , 2017, 27, 3183-3190.e4.	3.9	118
36	Molecular and genetic mechanisms regulating the transition from embryo development to germination. <i>Trends in Plant Science</i> , 1999, 4, 275-280.	8.8	107

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37	Nicotinamidase activity is important for germination. <i>Plant Journal</i> , 2007, 51, 341-351.	5.7	106
38	Peroxisomal ABC transporters. <i>FEBS Letters</i> , 2006, 580, 1139-1155.	2.8	103
39	Genotype and environment interact to control dormancy and differential expression of the VIVIPAROUS 1 homologue in embryos of <i>Avena fatua</i> . <i>Plant Journal</i> , 1997, 12, 911-920.	5.7	93
40	ABI3 emerges from the seed. <i>Trends in Plant Science</i> , 2000, 5, 418-419.	8.8	91
41	Functional Network Construction in <i>Arabidopsis</i> Using Rule-Based Machine Learning on Large-Scale Data Sets. <i>Plant Cell</i> , 2011, 23, 3101-3116.	6.6	91
42	Gene Expression Profiling Reveals Defined Functions of the ATP-Binding Cassette Transporter COMATOSE Late in Phase II of Germination. <i>Plant Physiology</i> , 2007, 143, 1669-1679.	4.8	90
43	The COMATOSE ATP-Binding Cassette Transporter Is Required for Full Fertility in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2007, 144, 1467-1480.	4.8	85
44	Oxygen-dependent proteolysis regulates the stability of angiosperm polycomb repressive complex 2 subunit VERNALIZATION2. <i>Nature Communications</i> , 2018, 9, 5438.	12.8	81
45	Every Breath You Take: New Insights into Plant and Animal Oxygen Sensing. <i>Cell</i> , 2020, 180, 22-24.	28.9	78
46	An analysis of dormancy, ABA responsiveness, after-ripening and pre-harvest sprouting in hexaploid wheat (<i>Triticum aestivum</i> L.) caryopses. <i>Journal of Experimental Botany</i> , 2010, 61, 597-607.	4.8	75
47	Hypoxia response in <i>Arabidopsis</i> roots infected by <i>Plasmodiophora brassicae</i> supports the development of clubroot. <i>BMC Plant Biology</i> , 2016, 16, 251.	3.6	71
48	Organisation and expression of a wound/ripening-related small multigene family from tomato. <i>Plant Molecular Biology</i> , 1988, 11, 81-88.	3.9	69
49	REGIA, An EU Project on Functional Genomics of Transcription Factors from <i>Arabidopsis thaliana</i> . <i>Comparative and Functional Genomics</i> , 2002, 3, 102-108.	2.0	69
50	A Regulatory Module Controlling GA-Mediated Endosperm Cell Expansion Is Critical for Seed Germination in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2019, 12, 71-85.	8.3	69
51	Promotion of Testa Rupture during Garden Cress Germination Involves Seed Compartment-Specific Expression and Activity of Pectin Methylesterases. <i>Plant Physiology</i> , 2014, 167, 200-215.	4.8	64
52	A transcriptomics resource for wheat functional genomics. <i>Plant Biotechnology Journal</i> , 2004, 2, 495-506.	8.3	60
53	Analysis of the role of COMATOSE and peroxisomal beta-oxidation in the determination of germination potential in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 2805-2814.	4.8	60
54	Distinct branches of the Nucleotide end rule pathway modulate the plant immune response. <i>New Phytologist</i> , 2019, 221, 988-1000.	7.3	59

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55	From start to finish: amino-terminal protein modifications as degradation signals in plants. <i>New Phytologist</i> , 2016, 211, 1188-1194.	7.3	53
56	The wheat <i>Phs-A1</i> pre-harvest sprouting resistance locus delays the rate of seed dormancy loss and maps 0.3 cM distal to the <i>PM19</i> genes in UK germplasm. <i>Journal of Experimental Botany</i> , 2016, 67, 4169-4178.	4.8	53
57	The plant N-degron pathways of ubiquitin-mediated proteolysis. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 70-89.	8.5	51
58	Site-specific binding of a nuclear factor to the carrot extensin gene is influenced by both ethylene and wounding. <i>Planta</i> , 1989, 179, 17-23.	3.2	47
59	The Wheat Transcriptional Activator SPA: A Seed-Specific bZIP Protein That Recognizes the GCN4-Like Motif in the Bifactorial Endosperm Box of Prolamin Genes. <i>Plant Cell</i> , 1997, 9, 171.	6.6	47
60	Identification and analysis of proteins that interact with the <i>Avena fatua</i> homologue of the maize transcription factor <i>VIMIPAROUS 1</i> . <i>Plant Journal</i> , 2000, 21, 133-142.	5.7	46
61	Terminomics reveals control of Arabidopsis seed storage proteins and proteases by the Arg/N-end rule pathway. <i>New Phytologist</i> , 2018, 218, 1106-1126.	7.3	44
62	Nucleotide sequence of an ethylene-related gene from tomato. <i>Nucleic Acids Research</i> , 1987, 15, 10600-10600.	14.5	43
63	Mutations in the Arabidopsis Peroxisomal ABC Transporter <i>COMATOSE</i> Allow Differentiation between Multiple Functions In Planta: Insights from an Allelic Series. <i>Molecular Biology of the Cell</i> , 2009, 20, 530-543.	2.1	43
64	Comparative Biology of Oxygen Sensing in Plants and Animals. <i>Current Biology</i> , 2020, 30, R362-R369.	3.9	43
65	The maize transcription factor <i>Opaque-2</i> activates a wheat glutenin promoter in plant and yeast cells. <i>Plant Molecular Biology</i> , 1995, 29, 711-720.	3.9	36
66	Transcriptional control of plant storage protein genes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1993, 342, 209-215.	4.0	33
67	Transcripts of <i>Vp-1</i> homoeologues are alternatively spliced within the Triticeae tribe. <i>Euphytica</i> , 2005, 143, 243-246.	1.2	32
68	An oxygen-sensing mechanism for angiosperm adaptation to altitude. <i>Nature</i> , 2022, 606, 565-569.	27.8	31
69	Axisymmetric indentation of curved elastic membranes by a convex rigid indenter. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 1128-1138.	2.6	30
70	Multi-omics analysis identifies genes mediating the extension of cell walls in the Arabidopsis thaliana root elongation zone. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 10.	3.7	30
71	Dormant and after-Ripened Arabidopsis thaliana Seeds are Distinguished by Early Transcriptional Differences in the Imbibed State. <i>Frontiers in Plant Science</i> , 2016, 7, 1323.	3.6	30
72	DNA-binding properties of cloned TATA-binding protein from potato tubers. <i>Plant Molecular Biology</i> , 1992, 19, 455-464.	3.9	27

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73	Barley has two peroxisomal ABC transporters with multiple functions in \hat{I}^2 -oxidation. <i>Journal of Experimental Botany</i> , 2014, 65, 4833-4847.	4.8	26
74	The PRT6 Nâ€degron pathway restricts VERNALIZATION 2 to endogenous hypoxic niches to modulate plant development. <i>New Phytologist</i> , 2021, 229, 126-139.	7.3	26
75	Sumoylation and phosphorylation: hidden and overt links. <i>Journal of Experimental Botany</i> , 2018, 69, 4583-4590.	4.8	24
76	Mitochondrial retrograde signaling through UCP1-mediated inhibition of the plant oxygen-sensing pathway. <i>Current Biology</i> , 2022, 32, 1403-1411.e4.	3.9	23
77	Genetic interactions between ABA signalling and the Arg/N-end rule pathway during Arabidopsis seedling establishment. <i>Scientific Reports</i> , 2018, 8, 15192.	3.3	20
78	Amplification and Detection of Transposon Insertion Flanking Sequences Using Fluorescent <i>Mu</i> -AFLP. <i>BioTechniques</i> , 2002, 32, 1090-1097.	1.8	19
79	Genetic control mechanisms regulating the initiation of germination. <i>Journal of Plant Physiology</i> , 2001, 158, 439-445.	3.5	17
80	Use of comparative molecular genetics to study pre harvest sprouting in wheat. <i>Euphytica</i> , 2002, 126, 27-33.	1.2	16
81	Allelic shift in cis-elements of the transcription factor <i>RAP2.12</i> underlies adaptation associated with humidity in <i>Arabidopsis thaliana</i> . <i>Science Advances</i> , 2022, 8, eabn8281.	10.3	15
82	Identification of a wound-induced inhibitor of a nuclear factor that binds the carrot extensin gene. <i>Planta</i> , 1989, 180, 74-81.	3.2	12
83	The <i>Arabidopsis thaliana</i> Nâ€recognin E3 ligase PROTEOLYSIS1 influences the immune response. <i>Plant Direct</i> , 2019, 3, e00194.	1.9	12
84	Statistical evaluation of transcriptomic data generated using the Affymetrix one-cycle, two-cycle and IVT-Express RNA labelling protocols with the <i>Arabidopsis</i> ATH1 microarray. <i>Plant Methods</i> , 2010, 6, 9.	4.3	11
85	First hints of new sensors. <i>Nature Plants</i> , 2017, 3, 767-768.	9.3	10
86	The NBDs that wouldn't die. <i>Communicative and Integrative Biology</i> , 2009, 2, 97-99.	1.4	8
87	Plant proteostasis â€ shaping the proteome: a research community aiming to understand molecular mechanisms that control protein abundance. <i>New Phytologist</i> , 2020, 227, 1028-1033.	7.3	7
88	The NBDs that wouldn't die: A cautionary tale of the use of isolated nucleotide binding domains of ABC transporters. <i>Communicative and Integrative Biology</i> , 2009, 2, 97-9.	1.4	6
89	Finite indentation of highly curved elastic shells. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170482.	2.1	5
90	Identification of Transposon-Tagged Maize Genes Displaying Homology to Arrayed cDNA Clones with the Use of Mutator Insertion Display. <i>Journal of Genome Science and Technology</i> , 2002, 1, 48-55.	0.5	3

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91	Conserved Mechanisms of Dormancy and Germination as Targets for Manipulation of Agricultural Problems. , 2006, , 11-32.		2
92	A Yeast-Based Functional Assay to Study Plant N-Degron â€™ N-Recognin Interactions. Frontiers in Plant Science, 2021, 12, 806129.	3.6	2
93	N-term 2017: Proteostasis via the N-terminus. Trends in Biochemical Sciences, 2019, 44, 293-295.	7.5	1
94	Seed Bioinformatics. Methods in Molecular Biology, 2011, 773, 403-419.	0.9	1