Shauna C Somerville

List of Publications by Year
in descending order

59	11,995	50276	149698
papers	citations	46 h-index	56 g-index

65	65	65	11554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sugar transporters for intercellular exchange and nutrition of pathogens. Nature, 2010, 468, 527-532.	27.8	1,258
2	SNARE-protein-mediated disease resistance at the plant cell wall. Nature, 2003, 425, 973-977.	27.8	904
3	A genome-wide transcriptional analysis using Arabidopsis thaliana Affymetrix gene chips determined plant responses to phosphate deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11934-11939.	7.1	834
4	Pre- and Postinvasion Defenses Both Contribute to Nonhost Resistance in Arabidopsis. Science, 2005, 310, 1180-1183.	12.6	753
5	Loss of a Callose Synthase Results in Salicylic Acid-Dependent Disease Resistance. Science, 2003, 301, 969-972.	12.6	615
6	Arabidopsis PEN3/PDR8, an ATP Binding Cassette Transporter, Contributes to Nonhost Resistance to Inappropriate Pathogens That Enter by Direct Penetration. Plant Cell, 2006, 18, 731-746.	6.6	598
7	The role of plant cell wall polysaccharide composition in disease resistance. Trends in Plant Science, 2004, 9, 203-209.	8.8	441
8	Conserved requirement for a plant host cell protein in powdery mildew pathogenesis. Nature Genetics, 2006, 38, 716-720.	21.4	430
9	Impairment of Cellulose Synthases Required for Arabidopsis Secondary Cell Wall Formation Enhances Disease Resistance. Plant Cell, 2007, 19, 890-903.	6.6	380
10	Expression Profile Analysis of the Low-Oxygen Response in Arabidopsis Root Cultures[W]. Plant Cell, 2002, 14, 2481-2494.	6.6	362
11	Hostâ€“pathogen warfare at the plant cell wall. Current Opinion in Plant Biology, 2009, 12, 406-413.	7.1	329
12	PMR6, a Pectate Lyaseâ€“Like Gene Required for Powdery Mildew Susceptibility in Arabidopsis. Plant Cell, 2002, 14, 2095-2106.	6.6	326
13	Elevated Early Callose Deposition Results in Complete Penetration Resistance to Powdery Mildew in Arabidopsis Â Â Â. Plant Physiology, 2013, 161, 1433-1444.	4.8	269
14	Plant Functional Genomics. Science, 1999, 285, 380-383.	12.6	265
15	Mutations in PMR5 result in powdery mildew resistance and altered cell wall composition. Plant Journal, 2004, 40, 968-978.	5.7	248
16	Phytoalexin Accumulation in Arabidopsis thaliana during the Hypersensitive Reaction to Pseudomonas syringae pv syringae. Plant Physiology, 1992, 98, 1304-1309.	4.8	246
17	Arabidopsis thaliana subcellular responses to compatible Erysiphe cichoracearum infections. Plant Journal, 2005, 44, 516-529.	5.7	246
18	Genetic characterization of five powdery mildew disease resistance loci in Arabidopsis thaliana. Plant Journal, 1996, 9, 341-356.	5.7	232

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19	Cell-Autonomous Expression of Barley Mla1 Confers Race-Specific Resistance to the Powdery Mildew Fungus via a Rar1-Independent Signaling Pathway. Plant Cell, 2001, 13, 337-350.	6.6	203
20	Cellulose-Derived Oligomers Act as Damage-Associated Molecular Patterns and Trigger Defense-Like Responses. Plant Physiology, 2017, 173, 2383-2398.	4.8	198
21	Loss-of-Function Mutations in Chitin Responsive Genes Show Increased Susceptibility to the Powdery Mildew Pathogen Erysiphe cichoracearum. Plant Physiology, 2005, 138, 1027-1036.	4.8	192
22	Host and non-host pathogens elicit different jasmonate/ethylene responses in Arabidopsis. Plant Journal, 2004, 40, 633-646.	5.7	186
23	An Arabidopsis Mutant Resistant to Thaxtomin A, a Cellulose Synthesis Inhibitor from Streptomyces Species[W]. Plant Cell, 2003, 15, 1781-1794.	6.6	177
24	Chasing the dream: plant EST microarrays. Current Opinion in Plant Biology, 2000, 3, 108-116.	7.1	174
25	LZF1, a HY5â€regulated transcriptional factor, functions in Arabidopsis deâ€etiolation. Plant Journal, 2008, 54, 205-219.	5.7	153
26	Arabidopsis Heterotrimeric G-protein Regulates Cell Wall Defense and Resistance to Necrotrophic Fungi. Molecular Plant, 2012, 5, 98-114.	8.3	141
27	Microarray analysis of chitin elicitation inArabidopsis thaliana. Molecular Plant Pathology, 2002, 3, 301-311.	4.2	119
28	Characterization of Early, Chitin-Induced Gene Expression in Arabidopsis. Molecular Plant-Microbe Interactions, 2002, 15, 963-970.	2.6	111
29	The xenobiotic Î²â€aminobutyric acid enhances Arabidopsis thermotolerance. Plant Journal, 2008, 53, 144-156.	5.7	108
30	Map positions of 47 Arabidopsis sequences with sequence similarity to disease resistance genes. Plant Journal, 1997, 12, 1197-1211.	5.7	102
31	The ERECTA Receptor-Like Kinase Regulates Cell Wallâ€“Mediated Resistance to Pathogens in Arabidopsis thaliana. Molecular Plant-Microbe Interactions, 2009, 22, 953-963.	2.6	100
32	ATL9, a RING Zinc Finger Protein with E3 Ubiquitin Ligase Activity Implicated in Chitin- and NADPH Oxidase-Mediated Defense Responses. PLoS ONE, 2010, 5, e14426.	2.5	94
33	Perception of conserved pathogen elicitors at the plasma membrane leads to relocalization of the Arabidopsis PEN3 transporter. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12492-12497.	7.1	91
34	DNA microarrays for studies of higher plants and other photosynthetic organisms. Trends in Plant Science, 1999, 4, 38-41.	8.8	88
35	Linking molecular insight and ecological research. Trends in Ecology and Evolution, 2002, 17, 409-414.	8.7	83
36	Quantitative Trait Loci Analysis of Powdery Mildew Disease Resistance in the Arabidopsis thaliana Accession Kashmir-1. Genetics, 2001, 158, 1301-1309.	2.9	82

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37	Genome-Wide Expression Profiling Arabidopsis at the Stage ofGolovinomyces cichoracearumHaustorium Formation Â Â. Plant Physiology, 2008, 146, 1421-1439.	4.8	79
38	EDR2 negatively regulates salicylic acid-based defenses and cell death during powdery mildew infections of Arabidopsis thaliana. BMC Plant Biology, 2007, 7, 35.	3.6	78
39	Microarray data quality analysis: lessons from the AFGC project. Arabidopsis Functional Genomics Consortium. Plant Molecular Biology, 2002, 48, 119-132.	3.9	76
40	Short-Chain Chitin Oligomers: Promoters of Plant Growth. Marine Drugs, 2017, 15, 40.	4.6	72
41	Focal accumulation of defences at sites of fungal pathogen attack. Journal of Experimental Botany, 2008, 59, 3501-3508.	4.8	65
42	Interaction of the Arabidopsis GTPase RabA4c with Its Effector PMR4 Results in Complete Penetration Resistance to Powdery Mildew Â Â. Plant Cell, 2014, 26, 3185-3200.	6.6	55
43	YODA MAP3K kinase regulates plant immune responses conferring broadâ€spectrum disease resistance. New Phytologist, 2018, 218, 661-680.	7.3	54
44	The genomics parade of defense responses: to infinity and beyond. Current Opinion in Plant Biology, 2002, 5, 291-294.	7.1	53
45	Plant gene expression profiling with DNA microarrays. Plant Physiology and Biochemistry, 2001, 39, 917-926.	5.8	50
46	Signalling pathways: A common theme in plants and animals?. Current Biology, 1997, 7, R175-R178.	3.9	49
47	The biochemistry and cell biology of photorespiration. Critical Reviews in Plant Sciences, 1986, 4, 121-147.	5.7	37
48	<scp>PMR</scp>5, an acetylation protein at the intersection of pectin biosynthesis and defense against fungal pathogens. Plant Journal, 2019, 100, 1022-1035.	5.7	34
49	An Arabidopsis Lipid Flippase Is Required for Timely Recruitment of Defenses to the Hostâ€“Pathogen Interface at the Plant Cell Surface. Molecular Plant, 2017, 10, 805-820.	8.3	30
50	Moonlighting Function of Phytochelatin Synthase1 in Extracellular Defense against Fungal Pathogens. Plant Physiology, 2020, 182, 1920-1932.	4.8	26
51	Show and tell: cell biology of pathogen invasion. Current Opinion in Plant Biology, 2006, 9, 406-413.	7.1	23
52	Accentuation of phosphorus limitation in Geranium dissectum by nitrogen: an ecological genomics study. Global Change Biology, 2008, 14, 1877-1890.	9.5	15
53	Phosphorylation is required for the pathogen defense function of the Arabidopsis PEN3 ABC transporter. Plant Signaling and Behavior, 2017, 12, e1379644.	2.4	15
54	Purification of High Molecular Weight Genomic DNA from Powdery Mildew for Long-Read Sequencing. Journal of Visualized Experiments, 2017, , .	0.3	14

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55	Callose in Biotic Stress (Pathogenesis). , 2009, , 525-562.		10
56	ENHANCEMENT OF NET PHOTOSYNTHESIS BY GENETIC MANIPULATION OF PHOTORESPIRATION AND RUBP CARBOXYLASE/OXYGENASE. , 1983, , 295-309.		9
57	Visualizing Cellular Dynamics in Plantâ€“Microbe Interactions Using Fluorescent-Tagged Proteins. Methods in Molecular Biology, 2011, 712, 283-291.	0.9	4
58	Arabidopsis at 7: Still Growing like a Weed. Plant Cell, 1996, 8, 1917.	6.6	3
59	Microarray data quality analysis: lessons from the AFGC project. , 2002, , 119-131.		2