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	Moonlighting Function of Phytochelatin Synthase1 in Extracellular Defense against Fungal Pathogens. Plant Physiology, 2020, 182, 1920-1932.	4.8	26
2	<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
3	YODA MAP3K kinase regulates plant immune responses conferring broadâ€spectrum disease resistance. New Phytologist, 2018, 218, 661-680.	7.3	54
4	Cellulose-Derived Oligomers Act as Damage-Associated Molecular Patterns and Trigger Defense-Like Responses. Plant Physiology, 2017, 173, 2383-2398.	4.8	198
5	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
6	Phosphorylation is required for the pathogen defense function of the Arabidopsis PEN3 ABC transporter. Plant Signaling and Behavior, 2017, 12, e1379644.	2.4	15
7	Short-Chain Chitin Oligomers: Promoters of Plant Growth. Marine Drugs, 2017, 15, 40.	4.6	72
8	Purification of High Molecular Weight Genomic DNA from Powdery Mildew for Long-Read Sequencing. Journal of Visualized Experiments, 2017, , .	0.3	14
9	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
10	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
11	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
12	Arabidopsis Heterotrimeric G-protein Regulates Cell Wall Defense and Resistance to Necrotrophic Fungi. Molecular Plant, 2012, 5, 98-114.	8.3	141
13	Visualizing Cellular Dynamics in Plantâ€“Microbe Interactions Using Fluorescent-Tagged Proteins. Methods in Molecular Biology, 2011, 712, 283-291.	0.9	4
14	Sugar transporters for intercellular exchange and nutrition of pathogens. Nature, 2010, 468, 527-532.	27.8	1,258
15	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
16	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
17	Hostâ€“pathogen warfare at the plant cell wall. Current Opinion in Plant Biology, 2009, 12, 406-413.	7.1	329
18	Callose in Biotic Stress (Pathogenesis). , 2009, , 525-562.		10

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19	Accentuation of phosphorus limitation in Geranium dissectum by nitrogen: an ecological genomics study. Global Change Biology, 2008, 14, 1877-1890.	9.5	15
20	The xenobiotic Î²â€aminobutyric acid enhances Arabidopsis thermotolerance. Plant Journal, 2008, 53, 144-156.	5.7	108
21	LZF1, a HY5â€regulated transcriptional factor, functions in Arabidopsis deâ€etiolation. Plant Journal, 2008, 54, 205-219.	5.7	153
22	Focal accumulation of defences at sites of fungal pathogen attack. Journal of Experimental Botany, 2008, 59, 3501-3508.	4.8	65
23	Genome-Wide Expression Profiling Arabidopsis at the Stage ofGolovinomyces cichoracearumHaustorium Formation Â Â. Plant Physiology, 2008, 146, 1421-1439.	4.8	79
24	Impairment of Cellulose Synthases Required for Arabidopsis Secondary Cell Wall Formation Enhances Disease Resistance. Plant Cell, 2007, 19, 890-903.	6.6	380
25	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
26	Conserved requirement for a plant host cell protein in powdery mildew pathogenesis. Nature Genetics, 2006, 38, 716-720.	21.4	430
27	Show and tell: cell biology of pathogen invasion. Current Opinion in Plant Biology, 2006, 9, 406-413.	7.1	23
28	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
29	Arabidopsis thaliana subcellular responses to compatible Erysiphe cichoracearum infections. Plant Journal, 2005, 44, 516-529.	5.7	246
30	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
31	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
32	Pre- and Postinvasion Defenses Both Contribute to Nonhost Resistance in Arabidopsis. Science, 2005, 310, 1180-1183.	12.6	753
33	Host and non-host pathogens elicit different jasmonate/ethylene responses in Arabidopsis. Plant Journal, 2004, 40, 633-646.	5.7	186
34	Mutations in PMR5 result in powdery mildew resistance and altered cell wall composition. Plant Journal, 2004, 40, 968-978.	5.7	248
35	The role of plant cell wall polysaccharide composition in disease resistance. Trends in Plant Science, 2004, 9, 203-209.	8.8	441
36	SNARE-protein-mediated disease resistance at the plant cell wall. Nature, 2003, 425, 973-977.	27.8	904

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37	Loss of a Callose Synthase Results in Salicylic Acid-Dependent Disease Resistance. Science, 2003, 301, 969-972.	12.6	615
38	An Arabidopsis Mutant Resistant to Thaxtomin A, a Cellulose Synthesis Inhibitor from Streptomyces Species[W]. Plant Cell, 2003, 15, 1781-1794.	6.6	177
39	Expression Profile Analysis of the Low-Oxygen Response in Arabidopsis Root Cultures[W]. Plant Cell, 2002, 14, 2481-2494.	6.6	362
40	PMR6, a Pectate Lyaseâ€“Like Gene Required for Powdery Mildew Susceptibility in Arabidopsis. Plant Cell, 2002, 14, 2095-2106.	6.6	326
41	Characterization of Early, Chitin-Induced Gene Expression in Arabidopsis. Molecular Plant-Microbe Interactions, 2002, 15, 963-970.	2.6	111
42	Linking molecular insight and ecological research. Trends in Ecology and Evolution, 2002, 17, 409-414.	8.7	83
43	The genomics parade of defense responses: to infinity and beyond. Current Opinion in Plant Biology, 2002, 5, 291-294.	7.1	53
44	Microarray analysis of chitin elicitation inArabidopsis thaliana. Molecular Plant Pathology, 2002, 3, 301-311.	4.2	119
45	Microarray data quality analysis: lessons from the AFGC project. Arabidopsis Functional Genomics Consortium. Plant Molecular Biology, 2002, 48, 119-132.	3.9	76
46	Microarray data quality analysis: lessons from the AFGC project. , 2002, , 119-131.		2
47	Plant gene expression profiling with DNA microarrays. Plant Physiology and Biochemistry, 2001, 39, 917-926.	5.8	50
48	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
49	Quantitative Trait Loci Analysis of Powdery Mildew Disease Resistance in the Arabidopsis thaliana Accession Kashmir-1. Genetics, 2001, 158, 1301-1309.	2.9	82
50	Chasing the dream: plant EST microarrays. Current Opinion in Plant Biology, 2000, 3, 108-116.	7.1	174
51	Plant Functional Genomics. Science, 1999, 285, 380-383.	12.6	265
52	DNA microarrays for studies of higher plants and other photosynthetic organisms. Trends in Plant Science, 1999, 4, 38-41.	8.8	88
53	Signalling pathways: A common theme in plants and animals?. Current Biology, 1997, 7, R175-R178.	3.9	49
54	Map positions of 47 Arabidopsis sequences with sequence similarity to disease resistance genes. Plant Journal, 1997, 12, 1197-1211.	5.7	102

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55	Genetic characterization of five powdery mildew disease resistance loci in Arabidopsis thaliana. Plant Journal, 1996, 9, 341-356.	5.7	232
56	Arabidopsis at 7: Still Growing like a Weed. Plant Cell, 1996, 8, 1917.	6.6	3
57	Phytoalexin Accumulation in Arabidopsis thaliana during the Hypersensitive Reaction to Pseudomonas syringae pv syringae. Plant Physiology, 1992, 98, 1304-1309.	4.8	246
58	The biochemistry and cell biology of photorespiration. Critical Reviews in Plant Sciences, 1986, 4, 121-147.	5.7	37
59	ENHANCEMENT OF NET PHOTOSYNTHESIS BY GENETIC MANIPULATION OF PHOTORESPIRATION AND RUBP CARBOXYLASE/OXYGENASE. , 1983, , 295-309.		9