

Jen Sheen

List of Publications by Year in descending order

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110
papers

37,310
citations

9786

73
h-index

25787

108
g-index

136
all docs

136
docs citations

136
times ranked

24869
citing authors

#	ARTICLE	IF	CITATIONS
1	Arabidopsis mesophyll protoplasts: a versatile cell system for transient gene expression analysis. Nature Protocols, 2007, 2, 1565-1572.	12.0	4,224
2	MAP kinase signalling cascade in Arabidopsis innate immunity. Nature, 2002, 415, 977-983.	27.8	2,407
3	SUGAR SENSING AND SIGNALING IN PLANTS: Conserved and Novel Mechanisms. Annual Review of Plant Biology, 2006, 57, 675-709.	18.7	1,919
4	Engineered GFP as a vital reporter in plants. Current Biology, 1996, 6, 325-330.	3.9	1,322
5	Multiplex and homologous recombination-mediated genome editing in Arabidopsis and Nicotiana benthamiana using guide RNA and Cas9. Nature Biotechnology, 2013, 31, 688-691.	17.5	1,280
6	A central integrator of transcription networks in plant stress and energy signalling. Nature, 2007, 448, 938-942.	27.8	1,270
7	In vitro reconstitution of an abscisic acid signalling pathway. Nature, 2009, 462, 660-664.	27.8	1,113
8	Mitogen-activated protein kinase cascades in plants: a new nomenclature. Trends in Plant Science, 2002, 7, 301-308.	8.8	1,080
9	Role of the Arabidopsis Glucose Sensor HXK1 in Nutrient, Light, and Hormonal Signaling. Science, 2003, 300, 332-336.	12.6	1,023
10	Sugar Sensing and Signaling in Plants. Plant Cell, 2002, 14, S185-S205.	6.6	946
11	Two-component circuitry in Arabidopsis cytokinin signal transduction. Nature, 2001, 413, 383-389.	27.8	857
12	A Unique Short-Chain Dehydrogenase/Reductase in Arabidopsis Glucose Signaling and Absciscic Acid Biosynthesis and Functions. Plant Cell, 2002, 14, 2723-2743.	6.6	764
13	Differential innate immune signalling via Ca ²⁺ sensor protein kinases. Nature, 2010, 464, 418-422.	27.8	750
14	Calcium Signaling through Protein Kinases. The Arabidopsis Calcium-Dependent Protein Kinase Gene Family. Plant Physiology, 2002, 129, 469-485.	4.8	722
15	Glucose-TOR signalling reprograms the transcriptome and activates meristems. Nature, 2013, 496, 181-186.	27.8	649
16	Signal Transduction in Maize and Arabidopsis Mesophyll Protoplasts. Plant Physiology, 2001, 127, 1466-1475.	4.8	621
17	Cytokinin and auxin interaction in root stem-cell specification during early embryogenesis. Nature, 2008, 453, 1094-1097.	27.8	605
18	Sugar and hormone connections. Trends in Plant Science, 2003, 8, 110-116.	8.8	557

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19	Bacterial Effectors Target the Common Signaling Partner BAK1 to Disrupt Multiple MAMP Receptor-Signaling Complexes and Impede Plant Immunity. <i>Cell Host and Microbe</i> , 2008, 4, 17-27.	11.0	498
20	Convergent energy and stress signaling. <i>Trends in Plant Science</i> , 2008, 13, 474-482.	8.8	489
21	CDPKs in immune and stress signaling. <i>Trends in Plant Science</i> , 2013, 18, 30-40.	8.8	487
22	Ancient signals: comparative genomics of plant MAPK and MAPKK gene families. <i>Trends in Plant Science</i> , 2006, 11, 192-198.	8.8	481
23	Differential regulation of EIN3 stability by glucose and ethylene signalling in plants. <i>Nature</i> , 2003, 425, 521-525.	27.8	467
24	Sugars as signaling molecules. <i>Current Opinion in Plant Biology</i> , 1999, 2, 410-418.	7.1	466
25	Dual control of nuclear EIN3 by bifurcate MAPK cascades in C2H4 signalling. <i>Nature</i> , 2008, 451, 789-795.	27.8	466
26	Plant mitogen-activated protein kinase signaling cascades. <i>Current Opinion in Plant Biology</i> , 2001, 4, 392-400.	7.1	461
27	Discovery of nitrateâ€“CPKâ€“NLP signalling in central nutrientâ€“growth networks. <i>Nature</i> , 2017, 545, 311-316.	27.8	425
28	Regulatory Functions of Nuclear Hexokinase1 Complex in Glucose Signaling. <i>Cell</i> , 2006, 127, 579-589.	28.9	398
29	Specific Bacterial Suppressors of MAMP Signaling Upstream of MAPKKK in Arabidopsis Innate Immunity. <i>Cell</i> , 2006, 125, 563-575.	28.9	386
30	Two-Component Signal Transduction Pathways in Arabidopsis. <i>Plant Physiology</i> , 2002, 129, 500-515.	4.8	384
31	Cytokinin-mediated control of leaf longevity by AHK3 through phosphorylation of ARR2 in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 814-819.	7.1	382
32	Protein kinase signaling networks in plant innate immunity. <i>Current Opinion in Plant Biology</i> , 2011, 14, 519-529.	7.1	377
33	Green-fluorescent protein as a new vital marker in plant cells. <i>Plant Journal</i> , 1995, 8, 777-784.	5.7	375
34	Analysis of <i>Arabidopsis</i> glucose insensitive mutants, <i>gin5</i> and <i>gin6</i> , reveals a central role of the plant hormone ABA in the regulation of plant vegetative development by sugar. <i>Genes and Development</i> , 2000, 14, 2085-2096.	5.9	356
35	<i>Pseudomonas syringae</i> type III effector AvrRpt2 alters <i>Arabidopsis thaliana</i> auxin physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20131-20136.	7.1	349
36	The role of hexokinase in plant sugar signal transduction and growth and development. <i>Plant Molecular Biology</i> , 2000, 44, 451-461.	3.9	335

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37	Feedback control of gene expression. <i>Photosynthesis Research</i> , 1994, 39, 427-438.	2.9	320
38	Fumonisin B1-induced Cell Death in Arabidopsis Protoplasts Requires Jasmonate-, Ethylene-, and Salicylate-Dependent Signaling Pathways. <i>Plant Cell</i> , 2000, 12, 1823-1835.	6.6	313
39	Sugar sensing in higher plants. <i>Trends in Plant Science</i> , 1997, 2, 208-214.	8.8	293
40	Involvement of Maize Dof Zinc Finger Proteins in Tissue-Specific and Light-Regulated Gene Expression. <i>Plant Cell</i> , 1998, 10, 75-89.	6.6	277
41	Suppression of auxin signal transduction by a MAPK cascade in higher plants. <i>Nature</i> , 1998, 395, 716-720.	27.8	270
42	Signal transduction in maize and Arabidopsis mesophyll protoplasts. <i>Plant Physiology</i> , 2001, 127, 1466-75.	4.8	264
43	Bifurcation of Arabidopsis NLR Immune Signaling via Ca ²⁺ -Dependent Protein Kinases. <i>PLoS Pathogens</i> , 2013, 9, e1003127.	4.7	257
44	Rapamycin and Glucose-Target of Rapamycin (TOR) Protein Signaling in Plants. <i>Journal of Biological Chemistry</i> , 2012, 287, 2836-2842.	3.4	234
45	Dynamic and diverse sugar signaling. <i>Current Opinion in Plant Biology</i> , 2016, 33, 116-125.	7.1	226
46	Emerging connections in the ethylene signaling network. <i>Trends in Plant Science</i> , 2009, 14, 270-279.	8.8	203
47	The Role of Target of Rapamycin Signaling Networks in Plant Growth and Metabolism. <i>Plant Physiology</i> , 2014, 164, 499-512.	4.8	199
48	C4GENE EXPRESSION. <i>Annual Review of Plant Biology</i> , 1999, 50, 187-217.	14.3	197
49	Master regulators in plant glucose signaling networks. <i>Journal of Plant Biology</i> , 2014, 57, 67-79.	2.1	191
50	A potent Cas9-derived gene activator for plant and mammalian cells. <i>Nature Plants</i> , 2017, 3, 930-936.	9.3	187
51	Pathogen-secreted proteases activate a novel plant immune pathway. <i>Nature</i> , 2015, 521, 213-216.	27.8	183
52	TOR signaling in plants: conservation and innovation. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	166
53	Advances in Cytokinin Signaling. <i>Science</i> , 2007, 318, 68-69.	12.6	163
54	Elicitation and suppression of microbe-associated molecular pattern-triggered immunity in plant-microbe interactions. <i>Cellular Microbiology</i> , 2007, 9, 1385-1396.	2.1	156

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55	Role of the Rice Hexokinases <i>OsHXK5</i> and <i>OsHXK6</i> as Glucose Sensors. <i>Plant Physiology</i> , 2009, 149, 745-759.	4.8	155
56	Ancient signals: comparative genomics of green plant CDPKs. <i>Trends in Plant Science</i> , 2014, 19, 79-89.	8.8	152
57	AGROBEST: an efficient Agrobacterium-mediated transient expression method for versatile gene function analyses in Arabidopsis seedlings. <i>Plant Methods</i> , 2014, 10, 19.	4.3	152
58	From The Cover: Expression of an active tobacco mitogen-activated protein kinase kinase kinase enhances freezing tolerance in transgenic maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3298-3303.	7.1	143
59	Sugar Sensing and Signaling. <i>The Arabidopsis Book</i> , 2008, 6, e0117.	0.5	142
60	Novel links in the plant TOR kinase signaling network. <i>Current Opinion in Plant Biology</i> , 2015, 28, 83-91.	7.1	132
61	Functional Analysis of Two Maize cDNAs Encoding T7-like RNA Polymerases. <i>Plant Cell</i> , 1999, 11, 911-926.	6.6	120
62	Expression and evolutionary features of the hexokinase gene family in Arabidopsis. <i>Planta</i> , 2008, 228, 411-425.	3.2	117
63	Molecular identification of phenylalanine ammonia-lyase as a substrate of a specific constitutively active Arabidopsis CDPK expressed in maize protoplasts. <i>FEBS Letters</i> , 2001, 503, 185-188.	2.8	110
64	Comprehensive Protein-Based Artificial MicroRNA Screens for Effective Gene Silencing in Plants. <i>Plant Cell</i> , 2013, 25, 1507-1522.	6.6	110
65	The <i>Pseudomonas syringae</i> effector HopF2 suppresses Arabidopsis immunity by targeting BAK1. <i>Plant Journal</i> , 2014, 77, 235-245.	5.7	110
66	Integration of nutrient, energy, light, and hormone signalling via TOR in plants. <i>Journal of Experimental Botany</i> , 2019, 70, 2227-2238.	4.8	108
67	Sugar Sensing in Higher Plants. <i>Plant Cell</i> , 1994, 6, 1665.	6.6	105
68	Default Activation and Nuclear Translocation of the Plant Cellular Energy Sensor SnRK1 Regulate Metabolic Stress Responses and Development. <i>Plant Cell</i> , 2019, 31, 1614-1632.	6.6	104
69	Protocol: a rapid and economical procedure for purification of plasmid or plant DNA with diverse applications in plant biology. <i>Plant Methods</i> , 2010, 6, 1.	4.3	91
70	TOR and RPS6 transmit light signals to enhance protein translation in deetiolating <i>Arabidopsis</i> seedlings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 12823-12828.	7.1	85
71	The N-terminal region of <i>Pseudomonas</i> type III effector AvrPtoB elicits Pto-dependent immunity and has two distinct virulence determinants. <i>Plant Journal</i> , 2007, 52, 595-614.	5.7	81
72	Phosphorelay and Transcription Control in Cytokinin Signal Transduction. <i>Science</i> , 2002, 296, 1650-1652.	12.6	80

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73	Introduction of Plasmid DNA into Cells. , 2001, Chapter 1, Unit1.8.		79
74	Intercepting Host MAPK Signaling Cascades by Bacterial Type III Effectors. Cell Host and Microbe, 2007, 1, 167-174.	11.0	77
75	The hybrid Fourâ€‹<scp>CBS</scp>â€‹Domain <scp>KIN</scp>Î²Î³ subunit functions as the canonical Î³ subunit of the plant energy sensor Sn<scp>RK</scp>1. Plant Journal, 2013, 75, 11-25.	5.7	77
76	The Use of Protoplasts to Study Innate Immune Responses. , 2007, 354, 1-10.		76
77	Stem-cell-triggered immunity through CLV3pâ€‹“FLS2 signalling. Nature, 2011, 473, 376-379.	27.8	72
78	Low Glucose Uncouples Hexokinase1-Dependent Sugar Signaling from Stress and Defense Hormone Absciscic Acid and C2H4 Responses in Arabidopsis. Plant Physiology, 2010, 152, 1180-1182.	4.8	71
79	Dynamic Nutrient Signaling Networks in Plants. Annual Review of Cell and Developmental Biology, 2021, 37, 341-367.	9.4	67
80	Maize C4 photosynthesis involves differential regulation of phosphoenolpyruvate carboxylase genes.. Plant Journal, 1992, 2, 221-232.	5.7	65
81	<i>Arabidopsis</i> Cytokinin Signaling Pathway. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, cm5.	3.9	63
82	Noncanonical ATG8â€‹“ABS3 interaction controls senescence in plants. Nature Plants, 2019, 5, 212-224.	9.3	60
83	Mesophyll-specific, light and metabolic regulation of the C4 PPCZm1 promoter in transgenic maize. Plant Molecular Biology, 2001, 45, 1-15.	3.9	46
84	Dissection of abscisic acid signal transduction pathways in barley aleurone layers. Plant Molecular Biology, 2001, 47, 437-448.	3.9	45
85	Epitope-tagged protein-based artificial miRNA screens for optimized gene silencing in plants. Nature Protocols, 2014, 9, 939-949.	12.0	45
86	Primary nitrate responses mediated by calcium signalling and diverse protein phosphorylation. Journal of Experimental Botany, 2020, 71, 4428-4441.	4.8	45
87	Molecular Mechanisms Underlying the Differential Expression of Maize Pyruvate, Orthophosphate Dikinase Genes. Plant Cell, 1991, 3, 225.	6.6	44
88	Plant sugar sensing and signaling â€‹“ a complex reality. Trends in Plant Science, 1999, 4, 250.	8.8	42
89	Cas9-Based Genome Editing in Arabidopsis and Tobacco. Methods in Enzymology, 2014, 546, 459-472.	1.0	42
90	Moving beyond translation: Glucose-TOR signaling in the transcriptional control of cell cycle. Cell Cycle, 2013, 12, 1989-1990.	2.6	41

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91	Maize C4 photosynthesis involves differential regulation of phosphoenolpyruvate carboxylase genes. <i>Plant Journal</i> , 1992, 2, 221-232.	5.7	39
92	DNA-free CRISPR-Cas9 gene editing of wild tetraploid tomato <i>Solanum peruvianum</i> using protoplast regeneration. <i>Plant Physiology</i> , 2022, 188, 1917-1930.	4.8	39
93	Model-driven discovery of calcium-related protein-phosphatase inhibition in plant guard cell signaling. <i>PLoS Computational Biology</i> , 2019, 15, e1007429.	3.2	34
94	Mitogen-activated protein kinases MPK3 and MPK6 are required for stem cell maintenance in the Arabidopsis shoot apical meristem. <i>Plant Cell Reports</i> , 2019, 38, 311-319.	5.6	31
95	Phosphorylation of d-allose by hexokinase involved in regulation of OsABF1 expression for growth inhibition in <i>Oryza sativa</i> L.. <i>Planta</i> , 2013, 237, 1379-1391.	3.2	28
96	Involvement of Maize Dof Zinc Finger Proteins in Tissue-Specific and Light-Regulated Gene Expression. <i>Plant Cell</i> , 1998, 10, 75.	6.6	21
97	Glucose Signaling Through Nuclear Hexokinase1 Complex in Arabidopsis. <i>Plant Signaling and Behavior</i> , 2007, 2, 123-124.	2.4	18
98	Transient Expression Assays for Quantifying Signaling Output. <i>Methods in Molecular Biology</i> , 2011, 876, 195-206.	0.9	18
99	Discover and Connect Cellular Signaling. <i>Plant Physiology</i> , 2010, 154, 562-566.	4.8	17
100	Endless Hide-and-Seek: Dynamic Co-evolution in Plant-Bacterium Warfare. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 105-111.	8.5	15
101	Dual CLAVATA3 peptides in Arabidopsis shoot stem cell signaling. <i>Journal of Plant Biology</i> , 2017, 60, 506-512.	2.1	15
102	Complexity in Differential Peptide Receptor Signaling: Response to Segonzac et al. and Mueller et al. Commentaries. <i>Plant Cell</i> , 2012, 24, 3177-3185.	6.6	14
103	Functional Analysis of Two Maize cDNAs Encoding T7-Like RNA Polymerases. <i>Plant Cell</i> , 1999, 11, 911.	6.6	13
104	Nuclear Actions in Innate Immune Signaling. <i>Cell</i> , 2007, 128, 821-823.	28.9	12
105	A Versatile and Efficient Plant Protoplast Platform for Genome Editing by Cas9 RNPs. <i>Frontiers in Genome Editing</i> , 2021, 3, 719190.	5.2	12
106	TOR kinase, a GPS in the complex nutrient and hormonal signaling networks to guide plant growth and development. <i>Journal of Experimental Botany</i> , 2022, 73, 7041-7054.	4.8	12
107	Maize <i>rbcS</i> Promoter Activity Depends on Sequence Elements Not Found in Dicot <i>rbcS</i> Promoters. <i>Plant Cell</i> , 1991, 3, 997.	6.6	11
108	Efficient and Economical Targeted Insertion in Plant Genomes via Protoplast Regeneration. <i>CRISPR Journal</i> , 2021, 4, 752-760.	2.9	9

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109	MAPK Assays in Arabidopsis MAMP-PRR Signal Transduction. Methods in Molecular Biology, 2017, 1578, 155-166.	0.9	5
110	The Cytokinin Side Chain Commands Shooting. Developmental Cell, 2013, 27, 371-372.	7.0	2