

Shuqun Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

9,409
citations

39
h-index

63
g-index

63
ext. papers

11,425
ext. citations

8.9
avg, IF

6.27
L-index

#	Paper	IF	Citations
58	Mitogen-activated protein kinase cascades in plants: a new nomenclature. <i>Trends in Plant Science</i> , 2002 , 7, 301-8	13.1	891
57	MAPK cascades in plant disease resistance signaling. <i>Annual Review of Phytopathology</i> , 2013 , 51, 245-66	10.8	646
56	Phosphorylation of 1-aminocyclopropane-1-carboxylic acid synthase by MPK6, a stress-responsive mitogen-activated protein kinase, induces ethylene biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2004 , 16, 3386-99	11.6	635
55	Stomatal development and patterning are regulated by environmentally responsive mitogen-activated protein kinases in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 63-73	11.6	587
54	MAPK cascades in plant defense signaling. <i>Trends in Plant Science</i> , 2001 , 6, 520-7	13.1	571
53	Phosphorylation of a WRKY transcription factor by two pathogen-responsive MAPKs drives phytoalexin biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 1639-53	11.6	483
52	Mitogen-activated protein kinases 3 and 6 are required for full priming of stress responses in Arabidopsis thaliana. <i>Plant Cell</i> , 2009 , 21, 944-53	11.6	390
51	Ancient signals: comparative genomics of plant MAPK and MAPKK gene families. <i>Trends in Plant Science</i> , 2006 , 11, 192-8	13.1	379
50	Cell death mediated by MAPK is associated with hydrogen peroxide production in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 559-65	5.4	335
49	Mitogen-activated protein kinase cascades in signaling plant growth and development. <i>Trends in Plant Science</i> , 2015 , 20, 56-64	13.1	305
48	A fungal-responsive MAPK cascade regulates phytoalexin biosynthesis in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5638-43	11.5	285
47	Phosphorylation of an ERF transcription factor by Arabidopsis MPK3/MPK6 regulates plant defense gene induction and fungal resistance. <i>Plant Cell</i> , 2013 , 25, 1126-42	11.6	255
46	Dual-level regulation of ACC synthase activity by MPK3/MPK6 cascade and its downstream WRKY transcription factor during ethylene induction in Arabidopsis. <i>PLoS Genetics</i> , 2012 , 8, e1002767	6	255
45	MEKK1 is required for flg22-induced MPK4 activation in Arabidopsis plants. <i>Plant Physiology</i> , 2007 , 143, 661-9	6.6	248
44	Chloroplast-generated reactive oxygen species are involved in hypersensitive response-like cell death mediated by a mitogen-activated protein kinase cascade. <i>Plant Journal</i> , 2007 , 51, 941-54	6.9	232
43	Regulation of floral organ abscission in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15629-34	11.5	228
42	MPK3- and MPK6-Mediated ICE1 Phosphorylation Negatively Regulates ICE1 Stability and Freezing Tolerance in Arabidopsis. <i>Developmental Cell</i> , 2017 , 43, 630-642.e4	10.2	196

41	Activation of a stress-responsive mitogen-activated protein kinase cascade induces the biosynthesis of ethylene in plants. <i>Plant Cell</i> , 2003 , 15, 2707-18	11.6	181
40	MAPK phosphorylation-induced stabilization of ACS6 protein is mediated by the non-catalytic C-terminal domain, which also contains the cis-determinant for rapid degradation by the 26S proteasome pathway. <i>Plant Journal</i> , 2008 , 54, 129-40	6.9	174
39	Mitogen-activated protein kinase 3 and 6 regulate <i>Botrytis cinerea</i> -induced ethylene production in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2010 , 64, 114-27	6.9	169
38	Activation of salicylic acid-induced protein kinase, a mitogen-activated protein kinase, induces multiple defense responses in tobacco. <i>Plant Cell</i> , 2001 , 13, 1877-89	11.6	141
37	A MAPK cascade downstream of ERECTA receptor-like protein kinase regulates <i>Arabidopsis</i> inflorescence architecture by promoting localized cell proliferation. <i>Plant Cell</i> , 2012 , 24, 4948-60	11.6	137
36	Multiple levels of tobacco WIPK activation during the induction of cell death by fungal elicitors. <i>Plant Journal</i> , 2000 , 23, 339-47	6.9	135
35	Calcium-independent activation of salicylic acid-induced protein kinase and a 40-kilodalton protein kinase by hyperosmotic stress. <i>Plant Physiology</i> , 2000 , 122, 1355-63	6.6	130
34	A chemical genetic approach demonstrates that MPK3/MPK6 activation and NADPH oxidase-mediated oxidative burst are two independent signaling events in plant immunity. <i>Plant Journal</i> , 2014 , 77, 222-34	6.9	129
33	Haplo-insufficiency of MPK3 in MPK6 mutant background uncovers a novel function of these two MAPKs in <i>Arabidopsis</i> ovule development. <i>Plant Cell</i> , 2008 , 20, 602-13	11.6	123
32	Phosphorylation of a WRKY transcription factor by MAPKs is required for pollen development and function in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2014 , 10, e1004384	6	112
31	Conveying endogenous and exogenous signals: MAPK cascades in plant growth and defense. <i>Current Opinion in Plant Biology</i> , 2018 , 45, 1-10	9.9	105
30	EDR1 physically interacts with MKK4/MKK5 and negatively regulates a MAP kinase cascade to modulate plant innate immunity. <i>PLoS Genetics</i> , 2014 , 10, e1004389	6	91
29	Active photosynthetic inhibition mediated by MPK3/MPK6 is critical to effector-triggered immunity. <i>PLoS Biology</i> , 2018 , 16, e2004122	9.7	86
28	Pathogen-Responsive MPK3 and MPK6 Reprogram the Biosynthesis of Indole Glucosinolates and Their Derivatives in <i>Arabidopsis</i> Immunity. <i>Plant Cell</i> , 2016 , 28, 1144-62	11.6	82
27	Regulation of Stomatal Immunity by Interdependent Functions of a Pathogen-Responsive MPK3/MPK6 Cascade and Abscisic Acid. <i>Plant Cell</i> , 2017 , 29, 526-542	11.6	76
26	The rice CK2 kinase regulates trafficking of phosphate transporters in response to phosphate levels. <i>Plant Cell</i> , 2015 , 27, 711-23	11.6	72
25	Two Mitogen-Activated Protein Kinases, MPK3 and MPK6, Are Required for Funicular Guidance of Pollen Tubes in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014 , 165, 528-533	6.6	63
24	Multilayered Regulation of Ethylene Induction Plays a Positive Role in <i>Arabidopsis</i> Resistance against <i>Pseudomonas syringae</i> . <i>Plant Physiology</i> , 2015 , 169, 299-312	6.6	56

23	A MAPK cascade downstream of IDA-HAE/HSL2 ligand-receptor pair in lateral root emergence. <i>Nature Plants</i> , 2019 , 5, 414-423	11.5	50
22	MPK3/MPK6 are involved in iron deficiency-induced ethylene production in Arabidopsis. <i>Frontiers in Plant Science</i> , 2015 , 6, 953	6.2	45
21	Maternal control of embryogenesis by MPK6 and its upstream MKK4/MKK5 in Arabidopsis. <i>Plant Journal</i> , 2017 , 92, 1005-1019	6.9	43
20	The Arabidopsis Pleiotropic Drug Resistance Transporters PEN3 and PDR12 Mediate Camalexin Secretion for Resistance to. <i>Plant Cell</i> , 2019 , 31, 2206-2222	11.6	39
19	Mitogen-activated protein kinases and calcium-dependent protein kinases are involved in wounding-induced ethylene biosynthesis in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2018 , 41, 134-147	8.4	39
18	Differential Phosphorylation of the Transcription Factor WRKY33 by the Protein Kinases CPK5/CPK6 and MPK3/MPK6 Cooperatively Regulates Camalexin Biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2020 , 32, 2621-2638	11.6	32
17	RACK1, scaffolding a heterotrimeric G protein and a MAPK cascade. <i>Trends in Plant Science</i> , 2015 , 20, 405-7	13.1	26
16	The YDA-MKK4/MKK5-MPK3/MPK6 Cascade Functions Downstream of the RGF1-RGI Ligand-Receptor Pair in Regulating Mitotic Activity in Root Apical Meristem. <i>Molecular Plant</i> , 2020 , 13, 1608-1623	14.4	21
15	Regulation of pollen lipid body biogenesis by MAP kinases and downstream WRKY transcription factors in Arabidopsis. <i>PLoS Genetics</i> , 2018 , 14, e1007880	6	16
14	Co-regulation of indole glucosinolates and camalexin biosynthesis by CPK5/CPK6 and MPK3/MPK6 signaling pathways. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1780-1796	8.3	15
13	A Förster resonance energy transfer sensor for live-cell imaging of mitogen-activated protein kinase activity in Arabidopsis. <i>Plant Journal</i> , 2019 , 97, 970-983	6.9	12
12	Regulation of GDSL Lipase Gene Expression by the MPK3/MPK6 Cascade and Its Downstream WRKY Transcription Factors in Immunity. <i>Molecular Plant-Microbe Interactions</i> , 2019 , 32, 673-684	3.6	11
11	CASEIN KINASE2-Dependent Phosphorylation of PHOSPHATE2 Fine-tunes Phosphate Homeostasis in Rice. <i>Plant Physiology</i> , 2020 , 183, 250-262	6.6	8
10	WRKY15 Suppresses Tracheary Element Differentiation Upstream of VND7 During Xylem Formation. <i>Plant Cell</i> , 2020 , 32, 2307-2324	11.6	8
9	Induction of ̢-aminobutyric acid plays a positive role to Arabidopsis resistance against Pseudomonas syringae. <i>Journal of Integrative Plant Biology</i> , 2020 , 62, 1797-1812	8.3	7
8	Protein phosphatase 2A alleviates cadmium toxicity by modulating ethylene production in Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2020 , 43, 1008-1022	8.4	7
7	Expression of a plastid-localized sugar transporter in the suspensor is critical to embryogenesis. <i>Plant Physiology</i> , 2021 , 185, 1021-1038	6.6	4
6	SCREAM in the making of stomata. <i>Nature Plants</i> , 2019 , 5, 648-649	11.5	3

5	Mitogen-Activated Protein Kinase Cascades in Plant Intracellular Signaling	100-136		3
4	Mitogen-Activated Protein Kinase Cascades in Plant Signaling	2018, 100-136		3
3	Sporophytic control of anther development and male fertility by glucose-6-phosphate/phosphate translocator 1 (OsGPT1) in rice. <i>Journal of Genetics and Genomics</i> , 2021, 48, 695-705		4	3
2	Assay Methods for ACS Activity and ACS Phosphorylation by MAP Kinases In Vitro and In Vivo. <i>Methods in Molecular Biology</i> , 2017, 1573, 59-71		1.4	1
1	Regulation of Arabidopsis Matrix Metalloproteinases by Mitogen-Activated Protein Kinases and Their Function in Leaf Senescence.. <i>Frontiers in Plant Science</i> , 2022, 13, 864986		6.2	