

# Shuqun Zhang

## List of Publications by Year in descending order

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61  
papers

12,845  
citations

57758

44  
h-index

128289

60  
g-index

63  
all docs

63  
docs citations

63  
times ranked

9250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitogen-activated protein kinase cascades in plant signaling. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 301-341.	8.5	149
2	WRKY33-mediated indolic glucosinolate metabolic pathway confers resistance against <i>Alternaria brassicicola</i> in <i>Arabidopsis</i> and <i>Brassica</i> crops. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1007-1019.	8.5	21
3	Regulation of <i>Arabidopsis</i> Matrix Metalloproteinases by Mitogen-Activated Protein Kinases and Their Function in Leaf Senescence. <i>Frontiers in Plant Science</i> , 2022, 13, 864986.	3.6	3
4	Overlapping functions of YDA and MAPKKK3/MAPKKK5 upstream of MPK3/MPK6 in plant immunity and growth/development. <i>Journal of Integrative Plant Biology</i> , 2022, 64, 1531-1542.	8.5	13
5	Sporophytic control of anther development and male fertility by glucose-6-phosphate/phosphate translocator 1 ( <i>OsGPT1</i> ) in rice. <i>Journal of Genetics and Genomics</i> , 2021, 48, 695-705.	3.9	13
6	Expression of a plastid-localized sugar transporter in the suspensor is critical to embryogenesis. <i>Plant Physiology</i> , 2021, 185, 1021-1038.	4.8	10
7	Protein phosphatase 2A alleviates cadmium toxicity by modulating ethylene production in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2020, 43, 1008-1022.	5.7	13
8	Induction of Î³-aminobutyric acid plays a positive role to <i>Arabidopsis</i> resistance against <i>Pseudomonas syringae</i> . <i>Journal of Integrative Plant Biology</i> , 2020, 62, 1797-1812.	8.5	25
9	Differential Phosphorylation of the Transcription Factor WRKY33 by the Protein Kinases CPK5/CPK6 and MPK3/MPK6 Cooperatively Regulates Camalexin Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020, 32, 2621-2638.	6.6	110
10	CASEIN KINASE2-Dependent Phosphorylation of PHOSPHATE2 Fine-tunes Phosphate Homeostasis in Rice. <i>Plant Physiology</i> , 2020, 183, 250-262.	4.8	22
11	WRKY15 Suppresses Tracheary Element Differentiation Upstream of VND7 During Xylem Formation. <i>Plant Cell</i> , 2020, 32, 2307-2324.	6.6	36
12	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.	8.3	49
13	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.	8.5	48
14	SCREAM in the making of stomata. <i>Nature Plants</i> , 2019, 5, 648-649.	9.3	5
15	The <i>Arabidopsis</i> Pleiotropic Drug Resistance Transporters PEN3 and PDR12 Mediate Camalexin Secretion for Resistance to <i>Botrytis cinerea</i> . <i>Plant Cell</i> , 2019, 31, 2206-2222.	6.6	84
16	A MAPK cascade downstream of IDA-HAE/HSL2 ligand-receptor pair in lateral root emergence. <i>Nature Plants</i> , 2019, 5, 414-423.	9.3	90
17	Regulation of GDSL Lipase Gene Expression by the MPK3/MPK6 Cascade and Its Downstream WRKY Transcription Factors in <i>Arabidopsis</i> Immunity. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 673-684.	2.6	23
18	A Förster resonance energy transfer sensor for live-cell imaging of mitogen-activated protein kinase activity in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2019, 97, 970-983.	5.7	21

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19	Mitogen-activated protein kinases and calcium-dependent protein kinases are involved in wounding-induced ethylene biosynthesis in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2018, 41, 134-147.	5.7	71
20	Regulation of pollen lipid body biogenesis by MAP kinases and downstream WRKY transcription factors in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2018, 14, e1007880.	3.5	38
21	Conveying endogenous and exogenous signals: MAPK cascades in plant growth and defense. <i>Current Opinion in Plant Biology</i> , 2018, 45, 1-10.	7.1	221
22	Active photosynthetic inhibition mediated by MPK3/MPK6 is critical to effector-triggered immunity. <i>PLoS Biology</i> , 2018, 16, e2004122.	5.6	161
23	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.	6.6	146
24	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.	0.9	1
25	Maternal control of embryogenesis by MPK6 and its upstream MKK4/MKK5 in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2017, 92, 1005-1019.	5.7	66
26	MPK3- and MPK6-Mediated ICE1 Phosphorylation Negatively Regulates ICE1 Stability and Freezing Tolerance in <i>Arabidopsis</i> . <i>Developmental Cell</i> , 2017, 43, 630-642.e4.	7.0	322
27	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, 1144-1162.	6.6	135
28	MPK3/MPK6 are involved in iron deficiency-induced ethylene production in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 953.	3.6	80
29	RACK1, scaffolding a heterotrimeric G protein and a MAPK cascade. <i>Trends in Plant Science</i> , 2015, 20, 405-407.	8.8	36
30	The Rice CK2 Kinase Regulates Trafficking of Phosphate Transporters in Response to Phosphate Levels. <i>Plant Cell</i> , 2015, 27, 711-723.	6.6	120
31	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.	4.8	87
32	Mitogen-activated protein kinase cascades in signaling plant growth and development. <i>Trends in Plant Science</i> , 2015, 20, 56-64.	8.8	428
33	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.	4.8	79
34	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.	3.5	136
35	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.	3.5	149
36	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, 222-234.	5.7	166

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37	Regulation of Ethylene Biosynthesis and Signaling by Protein Kinases and Phosphatases. <i>Molecular Plant</i> , 2014, 7, 939-942.	8.3	49
38	MAPK Cascades in Plant Disease Resistance Signaling. <i>Annual Review of Phytopathology</i> , 2013, 51, 245-266.	7.8	1,009
39	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> , 2013, 24, 4948-4960.	6.6	191
40	Phosphorylation of an ERF Transcription Factor by <i>Arabidopsis</i> MPK3/MPK6 Regulates Plant Defense Gene Induction and Fungal Resistance. <i>Plant Cell</i> , 2013, 25, 1126-1142.	6.6	362
41	Dual-Level Regulation of ACC Synthase Activity by MPK3/MPK6 Cascade and Its Downstream WRKY Transcription Factor during Ethylene Induction in <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2012, 8, e1002767.	3.5	380
42	Phosphorylation of a WRKY Transcription Factor by Two Pathogen-Responsive MAPKs Drives Phytoalexin Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 1639-1653.	6.6	674
43	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, no-no.	5.7	211
44	Mitogen-Activated Protein Kinases 3 and 6 Are Required for Full Priming of Stress Responses in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009, 21, 944-953.	6.6	458
45	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, 129-140.	5.7	212
46	Haplo-Insufficiency of <i>MPK3</i> in <i>MPK6</i> Mutant Background Uncovers a Novel Function of These Two MAPKs in <i>Arabidopsis</i> Ovule Development. <i>Plant Cell</i> , 2008, 20, 602-613.	6.6	148
47	A fungal-responsive MAPK cascade regulates phytoalexin biosynthesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5638-5643.	7.1	317
48	Regulation of floral organ abscission in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15629-15634.	7.1	296
49	MEKK1 Is Required for flg22-Induced MPK4 Activation in <i>Arabidopsis</i> Plants. <i>Plant Physiology</i> , 2007, 143, 661-669.	4.8	306
50	Stomatal Development and Patterning Are Regulated by Environmentally Responsive Mitogen-Activated Protein Kinases in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 63-73.	6.6	727
51	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, 941-954.	5.7	281
52	Ancient signals: comparative genomics of plant MAPK and MAPKK gene families. <i>Trends in Plant Science</i> , 2006, 11, 192-198.	8.8	481
53	Phosphorylation of 1-Aminocyclopropane-1-Carboxylic Acid Synthase by MPK6, a Stress-Responsive Mitogen-Activated Protein Kinase, Induces Ethylene Biosynthesis in <i>Arabidopsis</i> [W]. <i>Plant Cell</i> , 2004, 16, 3386-3399.	6.6	756
54	Activation of a Stress-Responsive Mitogen-Activated Protein Kinase Cascade Induces the Biosynthesis of Ethylene in Plants. <i>Plant Cell</i> , 2003, 15, 2707-2718.	6.6	200

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55	Cell Death Mediated by MAPK Is Associated with Hydrogen Peroxide Production in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2002, 277, 559-565.	3.4	411
56	Mitogen-activated protein kinase cascades in plants: a new nomenclature. <i>Trends in Plant Science</i> , 2002, 7, 301-308.	8.8	1,080
57	MAPK cascades in plant defense signaling. <i>Trends in Plant Science</i> , 2001, 6, 520-527.	8.8	676
58	Activation of Salicylic Acid-Induced Protein Kinase, a Mitogen-Activated Protein Kinase, Induces Multiple Defense Responses in Tobacco. <i>Plant Cell</i> , 2001, 13, 1877-1889.	6.6	149
59	Multiple levels of tobacco WIPK activation during the induction of cell death by fungal elicitors. <i>Plant Journal</i> , 2000, 23, 339-347.	5.7	149
60	Calcium-Independent Activation of Salicylic Acid-Induced Protein Kinase and a 40-Kilodalton Protein Kinase by Hyperosmotic Stress. <i>Plant Physiology</i> , 2000, 122, 1355-1364.	4.8	138
61	Mitogen-Activated Protein Kinase Cascades in Plant Intracellular Signaling. , 0, , 100-136.		3