Shi Xiao

List of Publications by Year
in descending order

59 papers	8,345 citations	117453 34 h-index	128067 60 g-index
61 all docs	61 docs citations	61 times ranked	17047 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Overexpression of Arabidopsis Acyl-CoA Binding Protein ACBP3 Promotes Starvation-Induced and Age-Dependent Leaf Senescence Â. Plant Cell, 2010, 22, 1463-1482.	3.1	225
3	Comparative transcriptome analysis of transporters, phytohormone and lipid metabolism pathways in response to arsenic stress in rice (Oryza sativa). New Phytologist, 2012, 195, 97-112.	3.5	193
4	COS1: An Arabidopsis coronatine insensitive1 Suppressor Essential for Regulation of Jasmonate-Mediated Plant Defense and Senescence. Plant Cell, 2004, 16, 1132-1142.	3.1	163
5	Proteogenomic analysis reveals alternative splicing and translation as part of the abscisic acid response in Arabidopsis seedlings. Plant Journal, 2017, 91, 518-533.	2.8	156
6	OsARM1, an R2R3 MYB Transcription Factor, Is Involved in Regulation of the Response to Arsenic Stress in Rice. Frontiers in Plant Science, 2017, 8, 1868.	1.7	150
7	Overexpression of the Arabidopsis 10-Kilodalton Acyl-Coenzyme A-Binding Protein ACBP6 Enhances Freezing Tolerance. Plant Physiology, 2008, 148, 304-315.	2.3	146
8	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. New Phytologist, 2017, 214, 1403-1407.	3.5	146
9	Autophagy contributes to regulation of the hypoxia response during submergence in Arabidopsis thaliana. Autophagy, 2015, 11, 2233-2246.	4.3	143
10	S-Nitrosylation Targets GSNO Reductase for Selective Autophagy during Hypoxia Responses in Plants. Molecular Cell, 2018, 71, 142-154.e6.	4.5	135
11	The AMP-Activated Protein Kinase KIN10 Is Involved in the Regulation of Autophagy in Arabidopsis. Frontiers in Plant Science, 2017, 8, 1201.	1.7	118
12	TRAF Family Proteins Regulate Autophagy Dynamics by Modulating AUTOPHAGY PROTEIN6 Stability in Arabidopsis. Plant Cell, 2017, 29, 890-911.	3.1	108
13	DIACYLGLYCEROL ACYLTRANSFERASE and DIACYLGLYCEROL KINASE Modulate Triacylglycerol and Phosphatidic Acid Production in the Plant Response to Freezing Stress. Plant Physiology, 2018, 177, 1303-1318.	2.3	108
14	Autophagy regulates glucose-mediated root meristem activity by modulating ROS production inArabidopsis. Autophagy, 2019, 15, 407-422.	4.3	102
15	Overexpression of Arabidopsis ACBP3 Enhances NPR1-Dependent Plant Resistance to Pseudomonas syringe pv tomato DC3000 Â Â. Plant Physiology, 2011, 156, 2069-2081.	2.3	101
16	Jasmonate Regulates Plant Responses to Postsubmergence Reoxygenation through Transcriptional Activation of Antioxidant Synthesis. Plant Physiology, 2017, 173, 1864-1880.	2.3	98
17	The Arabidopsis Mitochondrial Protease FtSH4 Is Involved in Leaf Senescence via Regulation of WRKY-Dependent Salicylic Acid Accumulation and Signaling. Plant Physiology, 2017, 173, 2294-2307.	2.3	98
18	Genetic Analyses of the Arabidopsis ATG1 Kinase Complex Reveal Both Kinase-Dependent and Independent Autophagic Routes during Fixed-Carbon Starvation. Plant Cell, 2019, 31, 2973-2995.	3.1	97

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19	Unsaturation of Very-Long-Chain Ceramides Protects Plant from Hypoxia-Induced Damages by Modulating Ethylene Signaling in Arabidopsis. PLoS Genetics, 2015, 11, e1005143.	1.5	86
20	Arabidopsis acylâ€‹<scp>C</scp>o<scp>A</scp>â€‹binding protein <scp>ACBP</scp>3 participates in plant response to hypoxia by modulating veryâ€‹longâ€‹chain fatty acid metabolism. Plant Journal, 2015, 81, 53-67.	2.8	84
21	Arabidopsis membrane-associated acyl-CoA-binding protein ACBP1 is involved in stem cuticle formation. Journal of Experimental Botany, 2014, 65, 5473-5483.	2.4	74
22	Autophagy in plants: Physiological roles and postâ€‹translational regulation. Journal of Integrative Plant Biology, 2021, 63, 161-179.	4.1	72
23	Mitigation of Cd accumulation in paddy rice (Oryza sativa L.) by Fe fertilization. Environmental Pollution, 2017, 231, 549-559.	3.7	68
24	Jasmonate complements the function of Arabidopsis lipoxygenase3 in salinity stress response. Plant Science, 2016, 244, 1-7.	1.7	64
25	Disruption of the Arabidopsis Defense Regulator Genes SAG101, EDS1, and PAD4 Confers Enhanced Freezing Tolerance. Molecular Plant, 2015, 8, 1536-1549.	3.9	55
26	Arabidopsis SINAT Proteins Control Autophagy by Mediating Ubiquitylation and Degradation of ATG13. Plant Cell, 2020, 32, 263-284.	3.1	53
27	Full-Length Transcript-Based Proteogenomics of Rice Improves Its Genome and Proteome Annotation. Plant Physiology, 2020, 182, 1510-1526.	2.3	53
28	OsCER1 Plays a Pivotal Role in Very-Long-Chain Alkane Biosynthesis and Affects Plastid Development and Programmed Cell Death of Tapetum in Rice (Oryza sativa L.). Frontiers in Plant Science, 2018, 9, 1217.	1.7	51
29	Alternative splicing and translation play important roles in hypoxic germination in rice. Journal of Experimental Botany, 2019, 70, 817-833.	2.4	51
30	Brassinosteroids Antagonize Jasmonate-Activated Plant Defense Responses through BRI1-EMS-SUPPRESSOR1 (BES1). Plant Physiology, 2020, 182, 1066-1082.	2.3	48
31	SINAT E3 Ubiquitin Ligases Mediate FREE1 and VPS23A Degradation to Modulate Abscisic Acid Signaling. Plant Cell, 2020, 32, 3290-3310.	3.1	46
32	Mechanisms of Fe biofortification and mitigation of Cd accumulation in rice (Oryza sativa L.) grown hydroponically with Fe chelate fertilization. Chemosphere, 2017, 175, 275-285.	4.2	42
33	Natural variation in the promoter of rice calcineurin Bâ€‹like protein10 (Os<scp>CBL</scp>10) affects flooding tolerance during seed germination among rice subspecies. Plant Journal, 2018, 94, 612-625.	2.8	42
34	New insights into the role of lipids in plant hypoxia responses. Progress in Lipid Research, 2021, 81, 101072.	5.3	37
35	SWATH-MS quantitative proteomic investigation of nitrogen starvation in Arabidopsis reveals new aspects of plant nitrogen stress responses. Journal of Proteomics, 2018, 187, 161-170.	1.2	32
36	Polyunsaturated linolenoylâ€‹CoA modulates ERFâ€‹VIIâ€‹mediated hypoxia signaling in Arabidopsis. Journal of Integrative Plant Biology, 2020, 62, 330-348.	4.1	32

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37	Phosphatidic acid modulates MPK3- and MPK6-mediated hypoxia signaling in Arabidopsis. Plant Cell, 2022, 34, 889-909.	3.1	31
38	Loss of alkaline ceramidase inhibits autophagy in Arabidopsis and plays an important role during environmental stress response. Plant, Cell and Environment, 2018, 41, 837-849.	2.8	30
39	Arabidopsis HSP70â€16 is required for flower opening under normal or mild heat stress temperatures. Plant, Cell and Environment, 2019, 42, 1190-1204.	2.8	30
40	Plasma membrane-nucleo-cytoplasmic coordination of a receptor-like cytoplasmic kinase promotes EDS1-dependent plant immunity. Nature Plants, 2022, 8, 802-816.	4.7	30
41	SINAT E3 ligases regulate the stability of the ESCRT component FREE1 in response to iron deficiency in plants. Journal of Integrative Plant Biology, 2020, 62, 1399-1417.	4.1	25
42	Long-Chain acyl-CoA Synthetase LACS2 Contributes to Submergence Tolerance by Modulating Cuticle Permeability in Arabidopsis. Plants, 2020, 9, 262.	1.6	20
43	The immune components ENHANCED DISEASE SUSCEPTIBILITY 1 and PHYTOALEXIN DEFICIENT 4 are required for cell death caused by overaccumulation of ceramides in Arabidopsis. Plant Journal, 2021, 107, 1447-1465.	2.8	19
44	Fast-Suppressor Screening for New Components in Protein Trafficking, Organelle Biogenesis and Silencing Pathway in Arabidopsis thaliana Using DEX-Inducible FREE1-RNAi Plants. Journal of Genetics and Genomics, 2015, 42, 319-330.	1.7	18
45	Biological aqua crust mitigates metal(loid) pollution and the underlying immobilization mechanisms. Water Research, 2021, 190, 116736.	5.3	17
46	Phloem unloading via the apoplastic pathway is essential for shoot distribution of root-synthesized cytokinins. Plant Physiology, 2021, 186, 2111-2123.	2.3	16
47	The receptor-like cytoplasmic kinase CDG1 negatively regulates Arabidopsis pattern-triggered immunity and is involved in AvrRpm1-induced RIN4 phosphorylation. Plant Cell, 2021, 33, 1341-1360.	3.1	15
48	Plant elicitor peptide signalling confers rice resistance to piercingâ€sucking insect herbivores and pathogens. Plant Biotechnology Journal, 2022, 20, 991-1005.	4.1	15
49	Evolution and Expression of the Membrane Attack Complex and Perforin Gene Family in the Poaceae. International Journal of Molecular Sciences, 2020, 21, 5736.	1.8	14
50	Identification and Expression of the Multidrug and Toxic Compound Extrusion (MATE) Gene Family in Capsicum annuum and Solanum tuberosum. Plants, 2020, 9, 1448.	1.6	12
51	The Î²-ketoacyl-CoA synthase KCS13 regulates the cold response in cotton by modulating lipid and oxylipin biosynthesis. Journal of Experimental Botany, 2020, 71, 5615-5630.	2.4	12
52	TRAF proteins as key regulators of plant development and stress responses. Journal of Integrative Plant Biology, 2022, 64, 431-448.	4.1	12
53	The Anaerobic Product Ethanol Promotes Autophagy-Dependent Submergence Tolerance in Arabidopsis. International Journal of Molecular Sciences, 2020, 21, 7361.	1.8	10
54	Transgenic Arabidopsis thaliana containing increased levels of ATP and sucrose is more susceptible to Pseudomonas syringae. PLoS ONE, 2017, 12, e0171040.	1.1	9

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55	The plant ESCRT component FREE1 regulates peroxisome-mediated turnover of lipid droplets in germinating Arabidopsis seedlings. Plant Cell, 2022, 34, 4255-4273.	3.1	9
56	Jasmonates modulate sphingolipid metabolism and accelerate cell death in the ceramide kinase mutant acd5. Plant Physiology, 2021, 187, 1713-1727.	2.3	8
57	Analysis of Plant Autophagy. Methods in Molecular Biology, 2017, 1662, 267-280.	0.4	7
58	Arabidopsis thaliana Plants Engineered To Produce Astaxanthin Show Enhanced Oxidative Stress Tolerance and Bacterial Pathogen Resistance. Journal of Agricultural and Food Chemistry, 2019, 67, 12590-12598.	2.4	5
59	Potential role of salicylic acid in modulating diacylglycerol homeostasis in response to freezing temperatures in Arabidopsis. Plant Signaling and Behavior, 2015, 10, e1082698.	1.2	2