Wenhua Zhang

List of Publications by Year
in descending order

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39 papers	1,868 citations	331259 21 h-index	301761 39 g-index
41 all docs	41 docs citations	41 times ranked	2314 citing authors

#	Article	IF	Citations
1	Phosphatidic Acid Regulates Microtubule Organization by Interacting with MAP65-1 in Response to Salt Stress in Arabidopsis. Plant Cell, 2012, 24, 4555-4576.	3.1	219
2	The Rice High-Affinity Potassium Transporter1;1 Is Involved in Salt Tolerance and Regulated by an MYB-Type Transcription Factor. Plant Physiology, 2015, 168, 1076-1090.	2.3	206
3	The potassium transporter <scp>O</scp>s<scp>HAK</scp>21 functions in the maintenance of ion homeostasis and tolerance to salt stress in rice. Plant, Cell and Environment, 2015, 38, 2766-2779.	2.8	155
4	Small interfering <scp>RNA</scp>s from bidirectional transcripts of Gh<scp>MML</scp>3_A12 regulate cotton fiber development. New Phytologist, 2016, 210, 1298-1310.	3.5	124
5	Rice qGL3/OsPPKL1 Functions with the GSK3/SHAGGY-Like Kinase OsGSK3 to Modulate Brassinosteroid Signaling. Plant Cell, 2019, 31, 1077-1093.	3.1	106
6	Phosphatidic Acid Directly Regulates PINOID-Dependent Phosphorylation and Activation of the PIN-FORMED2 Auxin Efflux Transporter in Response to Salt Stress. Plant Cell, 2019, 31, 250-271.	3.1	97
7	The role of putrescine in the regulation of proteins and fatty acids of thylakoid membranes under salt stress. Scientific Reports, 2015, 5, 14390.	1.6	95
8	A phosphoinositideâ€specific phospholipase C pathway elicits stressâ€induced Ca²⁺ signals and confers salt tolerance to rice. New Phytologist, 2017, 214, 1172-1187.	3.5	85
9	Tissue-specific accumulation of pH-sensing phosphatidic acid determines plant stress tolerance. Nature Plants, 2019, 5, 1012-1021.	4.7	73
10	The mitogen-activated protein kinase cascade MKK1â€“MPK4 mediates salt signaling in rice. Plant Science, 2014, 227, 181-189.	1.7	70
11	Comparative Study of Early Cold-Regulated Proteins by Two-Dimensional Difference Gel Electrophoresis Reveals a Key Role for Phospholipase DÎ±1 in Mediating Cold Acclimation Signaling Pathway in Rice. Molecular and Cellular Proteomics, 2016, 15, 1397-1411.	2.5	50
12	Phospholipase DÎ´ negatively regulates plant thermotolerance by destabilizing cortical microtubules in Arabidopsis. Plant, Cell and Environment, 2017, 40, 2220-2235.	2.8	45
13	Quantitative dissection of lipid degradation in rice seeds during accelerated aging. Plant Growth Regulation, 2012, 66, 49-58.	1.8	41
14	Rice shaker potassium channel <scp>OsAKT2</scp> positively regulates salt tolerance and grain yield by mediating K⁺ redistribution. Plant, Cell and Environment, 2021, 44, 2951-2965.	2.8	41
15	Phospholipase D in the signaling networks of plant response to abscisic acid and reactive oxygen species. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1736, 1-9.	1.2	38
16	Phosphatidic acid promotes the activation and plasma membrane localization of MKK7 and MKK9 in response to salt stress. Plant Science, 2019, 287, 110190.	1.7	37
17	FLOURY SHRUNKEN ENDOSPERM1 Connects Phospholipid Metabolism and Amyloplast Development in Rice. Plant Physiology, 2018, 177, 698-712.	2.3	35
18	Peroxisomal CuAOÎ¶ and its product H2O2 regulate the distribution of auxin and IBA-dependent lateral root development in Arabidopsis. Journal of Experimental Botany, 2017, 68, 4851-4867.	2.4	33

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19	Phosphatidic acid directly binds with rice potassium channel OsAKT2 to inhibit its activity. Plant Journal, 2020, 102, 649-665.	2.8	30
20	Involvement of Arabidopsis phospholipase D Î´ in regulation of ROS-mediated microtubule organization and stomatal movement upon heat shock. Journal of Experimental Botany, 2020, 71, 6555-6570.	2.4	29
21	HSP70-3 Interacts with Phospholipase DÎ´ and Participates in Heat Stress Defense. Plant Physiology, 2021, 185, 1148-1165.	2.3	27
22	An endoplasmic reticulumâ€“localized cytochrome b ₅ regulates high-affinity K ⁺ transport in response to salt stress in rice. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	27
23	The rice aldehyde oxidase OsAO3 gene regulates plant growth, grain yield, and drought tolerance by participating in ABA biosynthesis. Biochemical and Biophysical Research Communications, 2021, 548, 189-195.	1.0	25
24	Genome-wide analysis and functional characterization of Acyl-CoA:diacylglycerol acyltransferase from soybean identify GmDGAT1A and 1B roles in oil synthesis in Arabidopsis seeds. Journal of Plant Physiology, 2019, 242, 153019.	1.6	24
25	Physiological characterisation and fine mapping of a salt-tolerant mutant in rice (Oryza sativa). Functional Plant Biology, 2015, 42, 1026.	1.1	22
26	The ATP-binding cassette transporter OsPDR1 regulates plant growth and pathogen resistance by affecting jasmonates biosynthesis in rice. Plant Science, 2020, 298, 110582.	1.7	17
27	Regulation of developmental and environmental signaling by interaction between microtubules and membranes in plant cells. Protein and Cell, 2016, 7, 81-88.	4.8	16
28	Arabidopsis thaliana constitutively active ROP11 interacts with the NADPH oxidase respiratory burst oxidase homologue F to regulate reactive oxygen species production in root hairs. Functional Plant Biology, 2016, 43, 221.	1.1	14
29	Overexpression of soybean GmPLDÎ³ enhances seed oil content and modulates fatty acid composition in transgenic Arabidopsis. Plant Science, 2020, 290, 110298.	1.7	14
30	Seed specifically over-expressing DGAT2A enhances oil and linoleic acid contents in soybean seeds. Biochemical and Biophysical Research Communications, 2021, 568, 143-150.	1.0	14
31	Identification and Fine Mapping of a Mutation Conferring Saltâ€Sensitivity in Rice (Oryza sativa) Tj ETQq1 1 0.784314 rgBT /O	0.8	11
32	A CC-NBS-LRR type gene GHNTR1 confers resistance to southern root-knot nematode in Nicotiana.benthamiana and Nicotiana.tabacum. European Journal of Plant Pathology, 2015, 142, 715-729.	0.8	11
33	Fine mapping of qSKC-1, a major quantitative trait locus for shoot K⁺ concentration, in rice seedlings grown under salt stress. Breeding Science, 2017, 67, 286-295.	0.9	11
34	A bHLH protein, OsBIM1, positively regulates rice leaf angle by promoting brassinosteroid signaling. Biochemical and Biophysical Research Communications, 2021, 578, 129-135.	1.0	9
35	Phosphatidic acid binds to and regulates guanine nucleotide exchange factor 8 (GEF8) activity in Arabidopsis. Functional Plant Biology, 2017, 44, 1029.	1.1	7
36	Emerging roles of phosphoinositide-associated membrane trafficking in plant stress responses. Journal of Genetics and Genomics, 2022, 49, 726-734.	1.7	4

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37	Characterization and Fine Mapping of a Rice Leafâ€Rolling Mutant Deficient in Commissural Veins. Crop Science, 2017, 57, 2595-2604.	0.8	2
38	Multiple basic amino acid residues contribute to phosphatidic acid-mediated inhibition of rice potassium channel OsAKT2. Plant Signaling and Behavior, 2020, 15, 1789818.	1.2	2
39	Molecular cloning and functional characterization of GmAAPTs from soybean (Glycine max). Plant Signaling and Behavior, 2021, 16, 1845048.	1.2	1