Yan Guo

List of Publications by Year
in descending order

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85 papers	10,893 citations	66315 42 h-index	56687 83 g-index
85 all docs	85 docs citations	85 times ranked	8188 citing authors

#	Article	IF	Citations
1	Regulation of SOS1, a plasma membrane Na+/H+ exchanger in Arabidopsis thaliana, by SOS2 and SOS3. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8436-8441.	3.3	1,046
2	Elucidating the molecular mechanisms mediating plant saltâ€stress responses. New Phytologist, 2018, 217, 523-539.	3.5	894
3	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	2.3	689
4	Unraveling salt stress signaling in plants. Journal of Integrative Plant Biology, 2018, 60, 796-804.	4.1	658
5	SCABP8/CBL10, a Putative Calcium Sensor, Interacts with the Protein Kinase SOS2 to Protect Arabidopsis Shoots from Salt Stress. Plant Cell, 2007, 19, 1415-1431.	3.1	492
6	Molecular Characterization of Functional Domains in the Protein Kinase SOS2 That Is Required for Plant Salt Tolerance. Plant Cell, 2001, 13, 1383-1400.	3.1	390
7	Arabidopsis Protein Kinase PKS5 Inhibits the Plasma Membrane H+-ATPase by Preventing Interaction with 14-3-3 Protein. Plant Cell, 2007, 19, 1617-1634.	3.1	388
8	A novel domain in the protein kinase SOS2 mediates interaction with the protein phosphatase 2C ABI2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11771-11776.	3.3	368
9	A Plasma Membrane Receptor Kinase, GHR1, Mediates Abscisic Acid- and Hydrogen Peroxide-Regulated Stomatal Movement in Arabidopsis. Plant Cell, 2012, 24, 2546-2561.	3.1	341
10	Regulation of Vacuolar Na+/H+ Exchange in Arabidopsis thaliana by the Salt-Overly-Sensitive (SOS) Pathway. Journal of Biological Chemistry, 2004, 279, 207-215.	1.6	337
11	Plasma Membrane CRPK1-Mediated Phosphorylation of 14-3-3 Proteins Induces Their Nuclear Import to Fine-Tune CBF Signaling during Cold Response. Molecular Cell, 2017, 66, 117-128.e5.	4.5	281
12	Protein kinases in plant responses to drought, salt, and cold stress. Journal of Integrative Plant Biology, 2021, 63, 53-78.	4.1	273
13	Degradation of the ABA co-receptor ABI1 by PUB12/13 U-box E3 ligases. Nature Communications, 2015, 6, 8630.	5.8	256
14	Phosphorylation of SOS3-LIKE CALCIUM BINDING PROTEIN8 by SOS2 Protein Kinase Stabilizes Their Protein Complex and Regulates Salt Tolerance in Arabidopsis Â. Plant Cell, 2009, 21, 1607-1619.	3.1	228
15	The Arabidopsis Chaperone J3 Regulates the Plasma Membrane H+-ATPase through Interaction with the PKS5 Kinase Â. Plant Cell, 2010, 22, 1313-1332.	3.1	200
16	Sumoylation of transcription factor MYB30 by the small ubiquitin-like modifier E3 ligase SIZ1 mediates abscisic acid response in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12822-12827.	3.3	193
17	Inhibition of the Arabidopsis Salt Overly Sensitive Pathway by 14-3-3 Proteins Â. Plant Cell, 2014, 26, 1166-1182.	3.1	193
18	Natural variation in CTB4a enhances rice adaptation to cold habitats. Nature Communications, 2017, 8, 14788.	5.8	192

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19	Transgenic Evaluation of Activated Mutant Alleles of SOS2 Reveals a Critical Requirement for Its Kinase Activity and C-Terminal Regulatory Domain for Salt Tolerance in Arabidopsis thaliana. Plant Cell, 2004, 16, 435-449.	3.1	163
20	Calcium-activated 14-3-3 proteins as a molecular switch in salt stress tolerance. Nature Communications, 2019, 10, 1199.	5.8	156
21	SAD2, an Importin Î²-Like Protein, Is Required for UV-B Response in Arabidopsis by Mediating MYB4 Nuclear Trafficking. Plant Cell, 2007, 19, 3805-3818.	3.1	154
22	A Chaperone Function of NO CATALASE ACTIVITY1 Is Required to Maintain Catalase Activity and for Multiple Stress Responses in Arabidopsis. Plant Cell, 2015, 27, 908-925.	3.1	139
23	MYB30 transcription factor regulates oxidative and heat stress responses through ANNEXINâ€mediated cytosolic calcium signaling in Arabidopsis. New Phytologist, 2017, 216, 163-177.	3.5	135
24	Chloroplastic biosynthesis of melatonin and its involvement in protection of plants from salt stress. Scientific Reports, 2017, 7, 41236.	1.6	133
25	The SOS2-SCaBP8 Complex Generates and Fine-Tunes an AtANN4-Dependent Calcium Signature under Salt Stress. Developmental Cell, 2019, 48, 697-709.e5.	3.1	133
26	Natural Variation in OsLG3 Increases Drought Tolerance in Rice by Inducing ROS Scavenging. Plant Physiology, 2018, 178, 451-467.	2.3	121
27	Phosphorylation of SOS3-Like Calcium-Binding Proteins by Their Interacting SOS2-Like Protein Kinases Is a Common Regulatory Mechanism in Arabidopsis Â Â. Plant Physiology, 2011, 156, 2235-2243.	2.3	116
28	SOS2-LIKE PROTEIN KINASE5, an SNF1-RELATED PROTEIN KINASE3-Type Protein Kinase, Is Important for Abscisic Acid Responses in Arabidopsis through Phosphorylation of ABSCISIC ACID-INSENSITIVE5 Â. Plant Physiology, 2015, 168, 659-676.	2.3	111
29	A probable Na+(K+)/H+ exchanger on the chloroplast envelope functions in pH homeostasis and chloroplast development in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10211-10216.	3.3	109
30	The Ca²⁺ Sensor SCaBP3/CBL7 Modulates Plasma Membrane H⁺-ATPase Activity and Promotes Alkali Tolerance in Arabidopsis. Plant Cell, 2019, 31, 1367-1384.	3.1	106
31	The calcium transporter ANNEXIN1 mediates coldâ€induced calcium signaling and freezing tolerance in plants. EMBO Journal, 2021, 40, e104559.	3.5	99
32	An Arabidopsis Plasma Membrane Proton ATPase Modulates JA Signaling and Is Exploited by the Pseudomonas syringae Effector Protein AvrB for Stomatal Invasion. Plant Cell, 2015, 27, 2032-2041.	3.1	95
33	CASEIN KINASE1-LIKE PROTEIN2 Regulates Actin Filament Stability and Stomatal Closure via Phosphorylation of Actin Depolymerizing Factor. Plant Cell, 2016, 28, 1422-1439.	3.1	91
34	The Plant-Specific Actin Binding Protein SCAB1 Stabilizes Actin Filaments and Regulates Stomatal Movement inArabidopsisÂ Â. Plant Cell, 2011, 23, 2314-2330.	3.1	90
35	The GSK3-like Kinase BIN2 Is a Molecular Switch between the Salt Stress Response and Growth Recovery in Arabidopsis thaliana. Developmental Cell, 2020, 55, 367-380.e6.	3.1	85
36	UBIQUITIN-SPECIFIC PROTEASE16 Modulates Salt Tolerance in Arabidopsis by Regulating Na+/H+ Antiport Activity and Serine Hydroxymethyltransferase Stability Â. Plant Cell, 2013, 24, 5106-5122.	3.1	83

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37	Md<scp>WRKY</scp>9 overexpression confers intensive dwarfing in the M26 rootstock of apple by directly inhibiting brassinosteroid synthetase Md<scp>DWF</scp>4 expression. New Phytologist, 2018, 217, 1086-1098.	3.5	81
38	MYB30 Is a Key Negative Regulator of Arabidopsis Photomorphogenic Development That Promotes PIF4 and PIF5 Protein Accumulation in the Light. Plant Cell, 2020, 32, 2196-2215.	3.1	67
39	The Actin-Related Protein2/3 Complex Regulates Mitochondrial-Associated Calcium Signaling during Salt Stress inArabidopsisÂ Â. Plant Cell, 2013, 25, 4544-4559.	3.1	66
40	Loci and natural alleles underlying robust roots and adaptive domestication of upland ecotype rice in aerobic conditions. PLoS Genetics, 2018, 14, e1007521.	1.5	61
41	Stability and localization of 14-3-3 proteins are involved in salt tolerance in Arabidopsis. Plant Molecular Biology, 2016, 92, 391-400.	2.0	54
42	Establishing in planta haploid inducer line by edited SiMTL in foxtail millet (Setaria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.1	51
43	Activation of catalase activity by a peroxisome-localized small heat shock protein Hsp17.6CII. Journal of Genetics and Genomics, 2017, 44, 395-404.	1.7	47
44	VAMP711 Is Required for Abscisic Acid-Mediated Inhibition of Plasma Membrane H⁺-ATPase Activity. Plant Physiology, 2018, 178, 1332-1343.	2.3	47
45	OsCIPK7 pointâ€mutation leads to conformation and kinaseâ€activity change for sensing cold response. Journal of Integrative Plant Biology, 2019, 61, 1194-1200.	4.1	46
46	The Glycosyltransferase QUA1 Regulates Chloroplast-Associated Calcium Signaling During Salt and Drought Stress in Arabidopsis. Plant and Cell Physiology, 2017, 58, pcw192.	1.5	45
47	<scp>KUP</scp> 9 maintains root meristem activity by regulating K ⁺ and auxin homeostasis in response to low K. EMBO Reports, 2020, 21, e50164.	2.0	43
48	Arabidopsis SOS3 plays an important role in salt tolerance by mediating calcium-dependent microfilament reorganization. Plant Cell Reports, 2013, 32, 139-148.	2.8	42
49	Phosphorylation of the plasma membrane H+-ATPase AHA2 by BAK1 is required for ABA-induced stomatal closure in Arabidopsis. Plant Cell, 2022, 34, 2708-2729.	3.1	40
50	The classical <scp>SOS</scp> pathway confers natural variation of salt tolerance in maize. New Phytologist, 2022, 236, 479-494.	3.5	39
51	ESCRT-I Component VPS23A Sustains Salt Tolerance by Strengthening the SOS Module in Arabidopsis. Molecular Plant, 2020, 13, 1134-1148.	3.9	37
52	MKK4-MPK3-WRKY17-mediated salicylic acid degradation increases susceptibility to Glomerella leaf spot in apple. Plant Physiology, 2021, 186, 1202-1219.	2.3	36
53	Ubiquitinâ€specific protease 24 negatively regulates abscisic acid signalling in <scp>Arabidopsis thaliana</scp>. Plant, Cell and Environment, 2016, 39, 427-440.	2.8	33
54	Dynamic changes of phosphatidylinositol and phosphatidylinositol 4-phosphate levels modulate H+-ATPase and Na+/H+ antiporter activities to maintain ion homeostasis in Arabidopsis under salt stress. Molecular Plant, 2021, 14, 2000-2014.	3.9	33

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55	Root Growth Adaptation is Mediated by PYLs ABA Receptorâ€PP2A Protein Phosphatase Complex. Advanced Science, 2020, 7, 1901455.	5.6	32
56	A bioassay-guided fractionation system to identify endogenous small molecules that activate plasma membrane H+-ATPase activity in Arabidopsis. Journal of Experimental Botany, 2017, 68, 2951-2962.	2.4	32
57	A High-Throughput Method for Screening Arabidopsis Mutants with Disordered Abiotic Stress-Induced Calcium Signal. Journal of Genetics and Genomics, 2012, 39, 225-235.	1.7	31
58	Stepwise selection of natural variations at CTB2 and CTB4a improves cold adaptation during domestication of japonica rice. New Phytologist, 2021, 231, 1056-1072.	3.5	30
59	The molecular mechanism of plasma membrane H+-ATPases in plant responses to abiotic stress. Journal of Genetics and Genomics, 2022, 49, 715-725.	1.7	30
60	Proteomic Analysis of a Rice Mutant sd58 Possessing a Novel d1 Allele of Heterotrimeric G Protein Alpha Subunit (RGA1) in Salt Stress with a Focus on ROS Scavenging. International Journal of Molecular Sciences, 2019, 20, 167.	1.8	24
61	METHIONINE SYNTHASE1 Is Involved in Chromatin Silencing by Maintaining DNA and Histone Methylation. Plant Physiology, 2019, 181, 249-261.	2.3	23
62	Identification and Molecular Characterization of HOS15-interacting Proteins in Arabidopsis thaliana. Journal of Plant Biology, 2018, 61, 336-345.	0.9	22
63	The alkaline tolerance in Arabidopsis requires stabilizing microfilament partially through inactivation of PKS5 kinase. Journal of Genetics and Genomics, 2011, 38, 307-313.	1.7	21
64	Quantitative Proteome Analysis Reveals Changes in the Protein Landscape During Grape Berry Development With a Focus on Vacuolar Transport Proteins. Frontiers in Plant Science, 2019, 10, 641.	1.7	21
65	The PYRâ€PP2Câ€CKL2 module regulates ABAâ€mediated actin reorganization during stomatal closure. New Phytologist, 2022, 233, 2168-2184.	3.5	21
66	AP3M harbors actin filament binding activity that is crucial for vacuole morphology and stomatal closure in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18132-18141.	3.3	17
67	14-3-3 Î» protein interacts with ADF1 to regulate actin cytoskeleton dynamics in Arabidopsis. Science China Life Sciences, 2015, 58, 1142-1150.	2.3	16
68	DNA methylation signature of intergenic region involves in nucleosome remodeler DDM1-mediated repression of aberrantÂgeneÂtranscriptional read-through. Journal of Genetics and Genomics, 2016, 43, 513-523.	1.7	16
69	The MdMEK2â€“MdMPK6â€“MdWRKY17 pathway stabilizes chlorophyll levels by directly regulating MdSUFB in apple under drought stress. Plant Journal, 2021, 108, 814-828.	2.8	16
70	Microfilament Dynamics is Required for Root Growth under Alkaline Stress in Arabidopsis. Journal of Integrative Plant Biology, 2010, 52, 952-958.	4.1	15
71	Plant Actin-binding Protein SCAB1 Is Dimeric Actin Cross-linker with Atypical Pleckstrin Homology Domain. Journal of Biological Chemistry, 2012, 287, 11981-11990.	1.6	15
72	Transcriptional Gene Silencing Maintained by OTS1 SUMO Protease Requires a DNA-Dependent Polymerase V-Dependent Pathway. Plant Physiology, 2017, 173, 655-667.	2.3	14

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73	Activation of ROP6 GTPase by Phosphatidylglycerol in Arabidopsis. Frontiers in Plant Science, 2018, 9, 347.	1.7	14
74	MORPHEUSâ€™ MOLECULE1 Is Required to Prevent Aberrant RNA Transcriptional Read-Through in Arabidopsis. Plant Physiology, 2010, 154, 1272-1280.	2.3	13
75	Regulation of plasma membrane H⁺-ATPase activity by the members of the V-SNARE VAMP7C family in arabidopsis thaliana. Plant Signaling and Behavior, 2019, 14, e1573097.	1.2	10
76	Phosphatidylinositol 3-phosphate regulates SCAB1-mediated F-actin reorganization during stomatal closure in Arabidopsis. Plant Cell, 2022, 34, 477-494.	3.1	10
77	Arabidopsis atypical kinase ABC1K1 is involved in red light-mediated development. Plant Cell Reports, 2016, 35, 1213-1220.	2.8	9
78	Miniature Seed6, encoding an endoplasmic reticulum signal peptidase, is critical in seed development. Plant Physiology, 2021, 185, 985-1001.	2.3	8
79	Receptor-like protein kinase BAK1 promotes K+ uptake by regulating H+-ATPase AHA2 under low potassium stress. Plant Physiology, 2022, 189, 2227-2243.	2.3	8
80	ELONGATED HYPOCOTYL 5-mediated suppression of melatonin biosynthesis is alleviated by darkness and promotes cotyledon opening. Journal of Experimental Botany, 2022, 73, 4941-4953.	2.4	6
81	SCAB3 Is Required for Reorganization of Actin Filaments during Light Quality Changes. Journal of Genetics and Genomics, 2015, 42, 161-168.	1.7	5
82	LaCl3 treatment improves Agrobacterium-mediated immature embryo genetic transformation frequency of maize. Plant Cell Reports, 2022, 41, 1439-1448.	2.8	3
83	A simple and precise method (Y2H-in-frame-seq) improves yeast two-hybrid screening with cDNA libraries. Journal of Genetics and Genomics, 2022, 49, 595-598.	1.7	2
84	Proteome Analysis of Vacuoles Isolated from Fig (Ficus carica L.) Flesh during Fruit Development. Plant and Cell Physiology, 2022, 63, 785-801.	1.5	2
85	Phosphatidic acid inhibits SCAB1-mediated F-actin bundling in Arabidopsis. Plant Signaling and Behavior, 2023, 18, .	1.2	1