Yang Zhao

List of Publications by Year
in descending order

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85 papers	9,137 citations	94269 37 h-index	66788 78 g-index
87 all docs	87 docs citations	87 times ranked	9323 citing authors

#	Article	IF	Citations
1	Abscisic Acid Inhibits Type 2C Protein Phosphatases via the PYR/PYL Family of START Proteins. Science, 2009, 324, 1068-1071.	6.0	2,385
2	Abscisic acid dynamics, signaling, and functions in plants. Journal of Integrative Plant Biology, 2020, 62, 25-54.	4.1	771
3	ABA receptor PYL9 promotes drought resistance and leaf senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1949-1954.	3.3	508
4	Auxin controls seed dormancy through stimulation of abscisic acid signaling by inducing ARF-mediated ABI3 activation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15485-15490.	3.3	442
5	Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. Molecular Cell, 2018, 69, 100-112.e6.	4.5	385
6	Nitric oxide negatively regulates abscisic acid signaling in guard cells by S-nitrosylation of OST1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 613-618.	3.3	318
7	Mutations in a subfamily of abscisic acid receptor genes promote rice growth and productivity. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6058-6063.	3.3	284
8	Thriving under Stress: How Plants Balance Growth and the Stress Response. Developmental Cell, 2020, 55, 529-543.	3.1	283
9	The ABA Receptor PYL8 Promotes Lateral Root Growth by Enhancing MYB77-Dependent Transcription of Auxin-Responsive Genes. Science Signaling, 2014, 7, ra53.	1.6	274
10	A Wheat Allene Oxide Cyclase Gene Enhances Salinity Tolerance via Jasmonate Signaling Â Â. Plant Physiology, 2014, 164, 1068-1076.	2.3	198
11	An ABA-mimicking ligand that reduces water loss and promotes drought resistance in plants. Cell Research, 2013, 23, 1043-1054.	5.7	167
12	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
13	Stomatal Guard Cells Co-opted an Ancient ABA-Dependent Desiccation Survival System to Regulate Stomatal Closure. Current Biology, 2015, 25, 928-935.	1.8	154
14	Arabidopsis Duodecuple Mutant of PYL ABA Receptors Reveals PYL Repression of ABA-Independent SnRK2 Activity. Cell Reports, 2018, 23, 3340-3351.e5.	2.9	153
15	A RAF-SnRK2 kinase cascade mediates early osmotic stress signaling in higher plants. Nature Communications, 2020, 11, 613.	5.8	147
16	The unique mode of action of a divergent member of the ABA-receptor protein family in ABA and stress signaling. Cell Research, 2013, 23, 1380-1395.	5.7	125
17	The ABA receptor PYL9 together with PYL8 plays an important role in regulating lateral root growth. Scientific Reports, 2016, 6, 27177.	1.6	121
18	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

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19	EAR1 Negatively Regulates ABA Signaling by Enhancing 2C Protein Phosphatase Activity. Plant Cell, 2018, 30, 815-834.	3.1	111
20	The origins and homeostasis of monocytes and tissueâ€resident macrophages in physiological situation. Journal of Cellular Physiology, 2018, 233, 6425-6439.	2.0	110
21	Chemical genetic interrogation of natural variation uncovers a molecule that is glycoactivated. Nature Chemical Biology, 2007, 3, 716-721.	3.9	103
22	RNA-binding protein regulates plant DNA methylation by controlling mRNA processing at the intronic heterochromatin-containing gene IBM1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15467-15472.	3.3	91
23	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
24	Phosphorylation of SWEET sucrose transporters regulates plant root:shoot ratio under drought. Nature Plants, 2022, 8, 68-77.	4.7	91
25	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
26	Specific but interdependent functions for <scp>A</scp> rabidopsis <scp>AGO</scp> 4 and <scp>AGO</scp> 6 in <scp>RNA</scp> â€directed <scp>DNA</scp> methylation. EMBO Journal, 2015, 34, 581-592.	3.5	90
27	mTOR masters monocytic myeloid-derived suppressor cells in mice with allografts or tumors. Scientific Reports, 2016, 6, 20250.	1.6	88
28	The SnRK2 kinases modulate miRNA accumulation in Arabidopsis. PLoS Genetics, 2017, 13, e1006753.	1.5	87
29	The immunological function of CD52 and its targeting in organ transplantation. Inflammation Research, 2017, 66, 571-578.	1.6	79
30	Interactions between soybean ABA receptors and type 2C protein phosphatases. Plant Molecular Biology, 2013, 83, 651-664.	2.0	77
31	Counteraction of ABA-Mediated Inhibition of Seed Germination and Seedling Establishment by ABA Signaling Terminator in Arabidopsis. Molecular Plant, 2020, 13, 1284-1297.	3.9	63
32	Type One Protein Phosphatase 1 and Its Regulatory Protein Inhibitor 2 Negatively Regulate ABA Signaling. PLoS Genetics, 2016, 12, e1005835.	1.5	61
33	Bacterial effectors manipulate plant abscisic acid signaling for creation of an aqueous apoplast. Cell Host and Microbe, 2022, 30, 518-529.e6.	5.1	61
34	Control of Plant Water Use by ABA Induction of Senescence and Dormancy: An Overlooked Lesson from Evolution. Plant and Cell Physiology, 2017, 58, 1319-1327.	1.5	51
35	Interaction network of core ABA signaling components in maize. Plant Molecular Biology, 2018, 96, 245-263.	2.0	51
36	The LRXs-RALFs-FER module controls plant growth and salt stress responses by modulating multiple plant hormones. National Science Review, 2021, 8, nwaa149.	4.6	50

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37	Characterization and allergic role of IL-33-induced neutrophil polarization. Cellular and Molecular Immunology, 2018, 15, 782-793.	4.8	49
38	A Novel Chemical Inhibitor of ABA Signaling Targets All ABA Receptors. Plant Physiology, 2017, 173, 2356-2369.	2.3	47
39	Impact of aging immune system on neurodegeneration and potential immunotherapies. Progress in Neurobiology, 2017, 157, 2-28.	2.8	39
40	BONZAI Proteins Control Global Osmotic Stress Responses in Plants. Current Biology, 2020, 30, 4815-4825.e4.	1.8	39
41	Targeting Neutrophils in Sepsis: From Mechanism to Translation. Frontiers in Pharmacology, 2021, 12, 644270.	1.6	39
42	Cytosolic carboxypeptidase CCP6 is required for megakaryopoiesis by modulating Mad2 polyglutamylation. Journal of Experimental Medicine, 2014, 211, 2439-2454.	4.2	32
43	Triplin, a small molecule, reveals copper ion transport in ethylene signaling from ATX1 to RAN1. PLoS Genetics, 2017, 13, e1006703.	1.5	32
44	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
45	Itâ€™s Hard to Avoid Avoidance: Uncoupling the Evolutionary Connection between Plant Growth, Productivity and Stress â€œToleranceâ€• International Journal of Molecular Sciences, 2018, 19, 3671.	1.8	29
46	Identification and validation of two major QTLs for spike compactness and length in bread wheat (Triticum aestivum L.) showing pleiotropic effects on yield-related traits. Theoretical and Applied Genetics, 2021, 134, 3625-3641.	1.8	28
47	Germostatin resistance locus 1 encodes a <scp>PHD</scp> finger protein involved in auxinâ€mediated seed dormancy and germination. Plant Journal, 2016, 85, 3-15.	2.8	27
48	Alterations in stomatal response to fluctuating light increase biomass and yield of rice under drought conditions. Plant Journal, 2020, 104, 1334-1347.	2.8	26
49	Identification and Validation of a Novel Locus Controlling Spikelet Number in Bread Wheat (Triticum) Tj ETQq1 1 0.784314 rgBT /Ove	1.7	26
50	H2O2 Inhibits ABA-Signaling Protein Phosphatase HAB1. PLoS ONE, 2014, 9, e113643.	1.1	25
51	MTOR signaling is essential for the development of thymic epithelial cells and the induction of central immune tolerance. Autophagy, 2018, 14, 505-517.	4.3	22
52	ABA signalling promotes cell totipotency in the shoot apex of germinating embryos. Journal of Experimental Botany, 2021, 72, 6418-6436.	2.4	18
53	Genetic dissection of quantitative trait loci for grain size and weight by high-resolution genetic mapping in bread wheat (Triticum aestivum L.). Theoretical and Applied Genetics, 2022, 135, 257-271.	1.8	18
54	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

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55	Fractional-order iterative learning control with initial state learning design. Nonlinear Dynamics, 2017, 90, 1257-1268.	2.7	14
56	A novel iterative learning path-tracking control for nonholonomic mobile robots against initial shifts. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771063.	1.3	14
57	TMK1-based auxin signaling regulates abscisic acid responses via phosphorylating ABI1/2 in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
58	Wip1 Deficiency Promotes Neutrophil Recruitment to the Infection Site and Improves Sepsis Outcome. Frontiers in Immunology, 2017, 8, 1023.	2.2	11
59	Control of the spatial Mandelbrot set generated in coupled map lattice. Nonlinear Dynamics, 2016, 84, 1795-1803.	2.7	10
60	Phosphatidylinositol 3-phosphate regulates SCAB1-mediated F-actin reorganization during stomatal closure in Arabidopsis. Plant Cell, 2022, 34, 477-494.	3.1	10
61	Petroleum ether extract of Chenopodium album L. prevents cell growth and induces apoptosis of human lung cancer cells. Experimental and Therapeutic Medicine, 2016, 12, 3301-3307.	0.8	9
62	Memory identification of fractional order systems: Background and theory. , 2015, , .		6
63	A PRELIMINARY STUDY ON THE FRACTAL PHENOMENON: â€œDISCONNECTED+ DISCONNECTED=CONNECTEDâ€. Fractals, 2017, 25, 1750004.	1.8	6
64	Cyanobacterial Community Structure and Isolates From Representative Hot Springs of Yunnan Province, China Using an Integrative Approach. Frontiers in Microbiology, 2022, 13, 872598.	1.5	6
65	High-resolution detection of quantitative trait loci for seven important yield-related traits in wheat (Triticum aestivum L.) using a high-density SLAF-seq genetic map. BMC Genomic Data, 2022, 23, 37.	0.7	6
66	A Chemical Genetics Method to Uncover Small Molecules for Dissecting the Mechanism of ABA Responses in Arabidopsis Seed Germination. Methods in Molecular Biology, 2011, 876, 107-116.	0.4	5
67	SCAB3 Is Required for Reorganization of Actin Filaments during Light Quality Changes. Journal of Genetics and Genomics, 2015, 42, 161-168.	1.7	5
68	The pleiotropic effects of the seed germination inhibitor germostatin. Plant Signaling and Behavior, 2016, 11, e1144000.	1.2	5
69	Identification and candidate gene mining of HvSS1, a novel qualitative locus on chromosome 6H, regulating the uppermost internode elongation in barley (Hordeum vulgare L.). Theoretical and Applied Genetics, 2021, 134, 2481-2494.	1.8	5
70	Simultaneous gene editing of three homoeoalleles in selfâ€incompatible allohexaploid grasses. Journal of Integrative Plant Biology, 2021, 63, 1410-1415.	4.1	5
71	Comparative Transcriptomics Reveals the Molecular Mechanism of the Parental Lines of Maize Hybrid Anâ€™nong876 in Response to Salt Stress. International Journal of Molecular Sciences, 2022, 23, 5231.	1.8	5
72	Complete parametric identification of fractional order Hammerstein systems. , 2014, , .		4

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73	Rosbin, a synthetic small molecule, induces A549 cells apoptosis through a ROSâ€mediated pathway. Cell Biology International, 2017, 41, 221-226.	1.4	4
74	Molecular identification of BrHAB2a, one of the two AtHAB2-like proteins in Brassica rapa, is an important component of ABA signaling. Biochemical and Biophysical Research Communications, 2018, 503, 495-500.	1.0	4
75	Screening for Arabidopsis mutants with altered Ca2+ signal response using aequorin-based Ca2+ reporter system. STAR Protocols, 2021, 2, 100558.	0.5	4
76	pH induced elastic modulus of guard cell wall in stomatal movement. Science Bulletin, 2011, 56, 3554-3557.	1.7	3
77	Information weighted consensus filtering with improved convergence rate. , 2016, , .		3
78	Path-tracking of mobile robot using feedback-aided P-type iterative learning control against initial state error. , 2017, , .		3
79	An identification based optimization of fractional-order iterative learning control. , 2014, , .		2
80	A novel small molecule, Rosline, inhibits growth and induces caspaseâ€dependent apoptosis in human lung cancer cells A549 through a reactive oxygen speciesâ€dependent mechanism. Cell Biology International, 2016, 40, 686-695.	1.4	2
81	Identification of Auxin Activity Like 1, a chemical with weak functions in auxin signaling pathway. Plant Molecular Biology, 2018, 98, 275-287.	2.0	2
82	A small molecule inhibits cell elongation by modulating cell wall polysaccharide composition in Arabidopsis. Cell Surface, 2021, 7, 100049.	1.5	2
83	Modes of Action Study of Seed Germination Inhibitor Germostatin by Forward Genetics Screening. Methods in Molecular Biology, 2018, 1795, 143-148.	0.4	1
84	A Hybrid Alter Learning Rate Learning Vector Quantization Gaussian Gravity Search Algorithm for Multi Robotsâ€™ Tasks Allocation and Route Planning. , 2019, , .		0
85	What group 2 innate lymphoid cells tell themselves: autocrine signals play essential roles in mucosal immunity. Signal Transduction and Targeted Therapy, 2021, 6, 261.	7.1	0