Zhaohu Li

List of Publications by Year
in descending order

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121	5,083	101496	102432
papers	citations	36 h-index	66 g-index

122	122	122	5749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arabidopsis WRKY46, WRKY54 and WRKY70 Transcription Factors Are Involved in Brassinosteroid-Regulated Plant Growth and Drought Response. Plant Cell, 2017, 29, tpc.00364.2017.	3.1	286
2	Selective Autophagy of BES1 Mediated by DSK2 Balances Plant Growth and Survival. Developmental Cell, 2017, 41, 33-46.e7.	3.1	262
3	Silencing GhNDR1 and GhMKK2 compromises cotton resistance to Verticillium wilt. Plant Journal, 2011, 66, 293-305.	2.8	222
4	Nanoparticle Charge and Size Control Foliar Delivery Efficiency to Plant Cells and Organelles. ACS Nano, 2020, 14, 7970-7986.	7.3	204
5	RD26 mediates crosstalk between drought and brassinosteroid signalling pathways. Nature Communications, 2017, 8, 14573.	5.8	202
6	Optimizing irrigation scheduling for winter wheat in the North China Plain. Agricultural Water Management, 2005, 76, 8-23.	2.4	175
7	SOS1 gene overexpression increased salt tolerance in transgenic tobacco by maintaining a higher K+/Na+ ratio. Journal of Plant Physiology, 2012, 169, 255-261.	1.6	170
8	The AP2/ERF Transcription Factor TINY Modulates Brassinosteroid-Regulated Plant Growth and Drought Responses in Arabidopsis. Plant Cell, 2019, 31, 1788-1806.	3.1	153
9	Uniconazole-induced tolerance of soybean to water deficit stress in relation to changes in photosynthesis, hormones and antioxidant system. Journal of Plant Physiology, 2007, 164, 709-717.	1.6	142
10	Crop growth, light utilization and yield of relay intercropped cotton as affected by plant density and a plant growth regulator. Field Crops Research, 2014, 155, 67-76.	2.3	131
11	Coronatine alleviates salinity stress in cotton by improving the antioxidative defense system and radical-scavenging activity. Journal of Plant Physiology, 2008, 165, 375-384.	1.6	126
12	Brassinolide alleviated the adverse effect of water deficits on photosynthesis and the antioxidant of soybean (Glycine max L.). Plant Growth Regulation, 2008, 56, 257-264.	1.8	119
13	Physiological Evaluation of Drought Stress Tolerance and Recovery in Cauliflower (Brassica) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Regulation, 2012, 31, 113-123.	2.8	112
14	Expression of an <scp>A</scp>rabidopsis molybdenum cofactor sulphurase gene in soybean enhances drought tolerance and increases yield under field conditions. Plant Biotechnology Journal, 2013, 11, 747-758.	4.1	101
15	Overexpression of the AtLOS5 gene increased abscisic acid level and drought tolerance in transgenic cotton. Journal of Experimental Botany, 2012, 63, 3741-3748.	2.4	97
16	Emerging investigator series: molecular mechanisms of plant salinity stress tolerance improvement by seed priming with cerium oxide nanoparticles. Environmental Science: Nano, 2020, 7, 2214-2228.	2.2	97
17	Overexpression of Arabidopsis Molybdenum Cofactor Sulfurase Gene Confers Drought Tolerance in Maize (Zea mays L.). PLoS ONE, 2013, 8, e52126.	1.1	95
18	Regulation of cotton (GossypiumÂhirsutum) drought responses by mitogenâ€activated protein (<scp>MAP</scp>) kinase cascadeâ€mediated phosphorylation of Gh<scp>WRKY</scp>59. New Phytologist, 2017, 215, 1462-1475.	3.5	91

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19	Managing mepiquat chloride and plant density for optimal yield and quality of cotton. Field Crops Research, 2013, 149, 1-10.	2.3	85
20	Cotton Gh<scp>BAK</scp>1 Mediates Verticillium Wilt Resistance and Cell Death. Journal of Integrative Plant Biology, 2013, 55, 586-596.	4.1	84
21	Increased UVâ€B Radiation Affects the Viability, Reactive Oxygen Species Accumulation and Antioxidant Enzyme Activities in Maize (Zea mays L.) Pollen. Photochemistry and Photobiology, 2010, 86, 110-116.	1.3	73
22	Cerium oxide nanoparticles improve cotton salt tolerance by enabling better ability to maintain cytosolic K+/Na+ ratio. Journal of Nanobiotechnology, 2021, 19, 153.	4.2	71
23	Expression Profile of Early Responsive Genes Under Salt Stress in Upland Cotton (Gossypium hirsutum) Tj ETQq1 1 0.784314 rgBT /Over	1.0	70
24	Modulation of RNA Polymerase II Phosphorylation Downstream of Pathogen Perception Orchestrates Plant Immunity. Cell Host and Microbe, 2014, 16, 748-758.	5.1	70
25	Increased abscisic acid levels in transgenic maize overexpressingAtLOS5mediated root ion fluxes and leaf water status under salt stress. Journal of Experimental Botany, 2016, 67, 1339-1355.	2.4	68
26	Differential Responses of Conventional and Bt-Transgenic Cotton to Potassium Deficiency. Journal of Plant Nutrition, 2007, 30, 659-670.	0.9	67
27	Histone Lysine Methyltransferase SDG8 Is Involved in Brassinosteroid-Regulated Gene Expression in Arabidopsis thaliana. Molecular Plant, 2014, 7, 1303-1315.	3.9	64
28	The effect of mepiquat chloride on elongation of cotton (Gossypium hirsutum L.) internode is associated with low concentration of gibberellic acid. Plant Science, 2014, 225, 15-23.	1.7	63
29	Construction of a linkage map and QTL mapping for fiber quality traits in upland cotton (Gossypium) Tj ETQq1 1 0.784314 rgBT /Over	1.7	59
30	Yield components and quality of intercropped cotton in response to mepiquat chloride and plant density. Field Crops Research, 2015, 179, 63-71.	2.3	56
31	The Importance of Clâ^' Exclusion and Vacuolar Clâ^' Sequestration: Revisiting the Role of Clâ^' Transport in Plant Salt Tolerance. Frontiers in Plant Science, 2019, 10, 1418.	1.7	56
32	Inferring Roles in Defense from Metabolic Allocation of Rice Diterpenoids. Plant Cell, 2018, 30, 1119-1131.	3.1	55
33	Nanoceria seed priming enhanced salt tolerance in rapeseed through modulating ROS homeostasis and Î±-amylase activities. Journal of Nanobiotechnology, 2021, 19, 276.	4.2	47
34	NaCl salinity stress decreased Bacillus thuringiensis (Bt) protein content of transgenic Bt cotton (Gossypium hirsutum L.) seedlings. Environmental and Experimental Botany, 2006, 55, 315-320.	2.0	46
35	Modelling the structural response of cotton plants to mepiquat chloride and population density. Annals of Botany, 2014, 114, 877-887.	1.4	41
36	Phosphatase GhDs<scp>PTP</scp>3a interacts with annexin protein Gh<scp>ANN</scp>8b to reversely regulate salt tolerance in cotton (Gossypium spp.). New Phytologist, 2019, 223, 1856-1872.	3.5	39

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37	Arabidopsis LOS5/ABA3 overexpression in transgenic tobacco (Nicotiana tabacum cv. Xanthi-nc) results in enhanced drought tolerance. Plant Science, 2011, 181, 405-411.	1.7	37
38	Japanese Foxtail (Alopecurus japonicus) Resistance to Fenoxaprop and Pinoxaden in China. Weed Science, 2012, 60, 167-171.	0.8	35
39	Ethephon-regulated maize internode elongation associated with modulating auxin and gibberellin signal to alter cell wall biosynthesis and modification. Plant Science, 2020, 290, 110196.	1.7	35
40	Interdependent evolution of biosynthetic gene clusters for momilactone production in rice. Plant Cell, 2021, 33, 290-305.	3.1	34
41	Effects of Coronatine on Growth, Gas Exchange Traits, Chlorophyll Content, Antioxidant Enzymes and Lipid Peroxidation in Maize (Zea mays L.) Seedlings under Simulated Drought Stress. Plant Production Science, 2008, 11, 283-290.	0.9	33
42	Genetic Diversity of Wild Oat (Avena fatua)Populations from China and the United States. Weed Science, 2007, 55, 95-101.	0.8	29
43	RhizoChamber-Monitor: a robotic platform and software enabling characterization of root growth. Plant Methods, 2018, 14, 44.	1.9	29
44	GENOTYPIC VARIATIONS IN POTASSIUM UPTAKE AND UTILIZATION IN COTTON. Journal of Plant Nutrition, 2010, 34, 83-97.	0.9	27
45	Plant growth regulation enhanced potassium uptake and use efficiency in cotton. Field Crops Research, 2014, 163, 109-118.	2.3	27
46	Ethephon improved drought tolerance in maize seedlings by modulating cuticular wax biosynthesis and membrane stability. Journal of Plant Physiology, 2017, 214, 123-133.	1.6	27
47	Coronatineâ€induced lateralâ€root formation in cotton (Gossypium hirsutum) seedlings under potassiumâ€sufficient and â€deficient conditions in relation to auxin. Journal of Plant Nutrition and Soil Science, 2009, 172, 435-444.	1.1	25
48	Use of the beta growth function to quantitatively characterize the effects of plant density and a growth regulator on growth and biomass partitioning in cotton. Field Crops Research, 2018, 224, 28-36.	2.3	25
49	Effect of planting date and plant density on cotton traits as relating to mechanical harvesting in the Yellow River valley region of China. Field Crops Research, 2016, 198, 112-121.	2.3	24
50	Lignosulfonate Improves Photostability and Bioactivity of Abscisic Acid under Ultraviolet Radiation. Journal of Agricultural and Food Chemistry, 2018, 66, 6585-6593.	2.4	23
51	The Role of Gibberellins in Regulation of Nitrogen Uptake and Physiological Traits in Maize Responding to Nitrogen Availability. International Journal of Molecular Sciences, 2020, 21, 1824.	1.8	23
52	Nutrient Acquisition by Soybean Treated with and without Silicon under Ultraviolet-B Radiation. Journal of Plant Nutrition, 2009, 32, 1731-1743.	0.9	22
53	Dose-Dependent Effects of Coronatine on Cotton Seedling Growth Under Salt Stress. Journal of Plant Growth Regulation, 2015, 34, 651-664.	2.8	22
54	Identification of plant configurations maximizing radiation capture in relay strip cotton using a functionalâ€“structural plant model. Field Crops Research, 2016, 187, 1-11.	2.3	22

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55	A novel ABA functional analogue B2 enhances drought tolerance in wheat. Scientific Reports, 2019, 9, 2887.	1.6	21
56	Mepiquat chloride promotes cotton lateral root formation by modulating plant hormone homeostasis. BMC Plant Biology, 2019, 19, 573.	1.6	21
57	The Cotton High-Affinity K+ Transporter, GhHAK5a, Is Essential for Shoot Regulation of K+ Uptake in Root under Potassium Deficiency. Plant and Cell Physiology, 2019, 60, 888-899.	1.5	21
58	Application of Brassinosteroid Mimetics Improves Growth and Tolerance of Maize to Nicosulfuron Toxicity. Journal of Plant Growth Regulation, 2019, 38, 701-712.	2.8	21
59	Interâ€species protein trafficking endows dodder (Cuscuta pentagona) with a hostâ€specific herbicideâ€tolerant trait. New Phytologist, 2013, 198, 1017-1022.	3.5	20
60	Functional characterization of GhAKT1, a novel Shaker-like K+ channel gene involved in K+ uptake from cotton (Gossypium hirsutum). Gene, 2014, 545, 61-71.	1.0	19
61	The Phytotoxin Coronatine Induces Abscission-Related Gene Expression and Boll Ripening during Defoliation of Cotton. PLoS ONE, 2014, 9, e97652.	1.1	19
62	Phytotoxin coronatine enhances heat tolerance via maintaining photosynthetic performance in wheat based on Electrophoresis and TOF-MS analysis. Scientific Reports, 2015, 5, 13870.	1.6	19
63	Interactions of Single Mepiquat Chloride Application at Different Growth Stages with Climate, Cultivar, and Plant Population for Cotton Yield. Crop Science, 2017, 57, 1713-1724.	0.8	19
64	Saving Irrigation Water for Winter Wheat with Phosphorus Application in the North China Plain. Journal of Plant Nutrition, 2005, 28, 2001-2010.	0.9	18
65	A (conditional) role for labdaneâ€related diterpenoid natural products in rice stomatal closure. New Phytologist, 2021, 230, 698-709.	3.5	18
66	Evolution of mitochondrial gene content: loss of genes, tRNAs and introns between Gossypium harknessii and other plants. Plant Systematics and Evolution, 2013, 299, 1889-1897.	0.3	17
67	Cytoplasmic diversity of the cotton genus as revealed by chloroplast microsatellite markers. Genetic Resources and Crop Evolution, 2014, 61, 107-119.	0.8	17
68	Introducing selective agrochemical manipulation of gibberellin metabolism into a cereal crop. Nature Plants, 2020, 6, 67-72.	4.7	17
69	Dissecting the labdaneâ€related diterpenoid biosynthetic gene clusters in rice reveals directional crossâ€cluster phytotoxicity. New Phytologist, 2022, 233, 878-889.	3.5	17
70	Predicting the effects of environment and management on cotton fibre growth and quality: a functional-structural plant modelling approach. AoB PLANTS, 2014, 6, plu040-plu040.	1.2	16
71	CeO₂ Nanoparticles Seed Priming Increases Salicylic Acid Level and ROS Scavenging Ability to Improve Rapeseed Salt Tolerance. Global Challenges, 2022, 6, .	1.8	16
72	SILICON MITIGATES ULTRAVIOLET-B RADIATION STRESS ON SOYBEAN BY ENHANCING CHLOROPHYLL AND PHOTOSYNTHESIS AND REDUCING TRANSPIRATION. Journal of Plant Nutrition, 2014, 37, 837-849.	0.9	15

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73	Coronatine enhances drought tolerance in winter wheat by maintaining high photosynthetic performance. Journal of Plant Physiology, 2018, 228, 59-65.	1.6	15
74	Ethephon Improved Stalk Strength of Maize (Zea Mays L.) Mainly through Altering Internode Morphological Traits to Modulate Mechanical Properties under Field Conditions. Agronomy, 2019, 9, 186.	1.3	15
75	Parasitic plant dodder (Cuscuta spp.): A new natural Agrobacterium-to-plant horizontal gene transfer species. Science China Life Sciences, 2020, 63, 312-316.	2.3	15
76	Transcriptome Analysis Unravels Key Factors Involved in Response to Potassium Deficiency and Feedback Regulation of K+ Uptake in Cotton Roots. International Journal of Molecular Sciences, 2021, 22, 3133.	1.8	15
77	Physical limitations and challenges to Grain Security in China. Food Security, 2014, 6, 159-167.	2.4	13
78	Design, synthesis and mode of action of novel <scp>3â€‹</scp>chloroâ€6â€pyrazolyl picolinate derivatives as herbicide candidates. Pest Management Science, 2021, 77, 2252-2263.	1.7	13
79	CeO₂ nanoparticles modulate Cuâ€“Zn superoxide dismutase and lipoxygenase-IV isozyme activities to alleviate membrane oxidative damage to improve rapeseed salt tolerance. Environmental Science: Nano, 2022, 9, 1116-1132.	2.2	13
80	Thidiazuron Promotes Leaf Abscission by Regulating the Crosstalk Complexities between Ethylene, Auxin, and Cytokinin in Cotton. International Journal of Molecular Sciences, 2022, 23, 2696.	1.8	13
81	Photoprotectant improves photostability and bioactivity of abscisic acid under UV radiation. Journal of Photochemistry and Photobiology B: Biology, 2016, 158, 99-104.	1.7	12
82	Coronatine inhibits mesocotyl elongation by promoting ethylene production in etiolated maize seedlings. Plant Growth Regulation, 2020, 90, 51-61.	1.8	12
83	SILICON EFFECTS ON THE PARTITIONING OF MINERAL ELEMENTS IN SOYBEAN SEEDLINGS UNDER DROUGHT AND ULTRAVIOLET-B RADIATION. Journal of Plant Nutrition, 2014, 37, 828-836.	0.9	11
84	Cotton Yield and Potassium Use Efficiency as Affected by Potassium Fertilizer Management with Stalks Returned to Field. Crop Science, 2016, 56, 740-746.	0.8	11
85	System Analysis of MIRNAs in Maize Internode Elongation. Biomolecules, 2019, 9, 417.	1.8	11
86	Copalyl Diphosphate Synthase Mutation Improved Salt Tolerance in Maize (Zea mays. L) via Enhancing Vacuolar Na+ Sequestration and Maintaining ROS Homeostasis. Frontiers in Plant Science, 2020, 11, 457.	1.7	11
87	Fertilizer stabilizers reduce nitrous oxide emissions from agricultural soil by targeting microbial nitrogen transformations. Science of the Total Environment, 2022, 806, 151225.	3.9	11
88	Variations in Growth, Photosynthesis and Defense System Among Four Weed Species Under Increased UV-B Radiation. Journal of Integrative Plant Biology, 2007, 49, 621-627.	4.1	10
89	Nitrification inhibitor 3,4â€dimethylpyrazole phosphate (<scp>DMPP</scp>) reduces <scp>N₂O</scp> emissions by altering the soil microbial community in a wheatâ€“maize rotation on the North China Plain. European Journal of Soil Science, 2021, 72, 1270-1291.	1.8	10
90	Gibberellin biosynthesis inhibitor mepiquat chloride enhances root K+ uptake in cotton by modulating plasma membrane H+-ATPase. Journal of Experimental Botany, 2021, 72, 6659-6671.	2.4	10

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91	Construction and application of star polycation nanocarrier-based microRNA delivery system in Arabidopsis and maize. Journal of Nanobiotechnology, 2022, 20, 219.	4.2	9
92	The effects of mepiquat chloride on the lateral root initiation of cotton seedlings are associated with auxin and auxin-conjugate homeostasis. BMC Plant Biology, 2018, 18, 361.	1.6	8
93	Improved synthetic route of exo â€16,17â€dihydroâ€gibberellin A5â€13â€acetate and the bioactivity of its derivatives towards Arabidopsis thaliana. Pest Management Science, 2020, 76, 807-817.	1.7	8
94	Cellular and Subcellular Immunohistochemical Localization and Quantification of Cadmium Ions in Wheat (Triticum aestivum). PLoS ONE, 2015, 10, e0123779.	1.1	8
95	The effect of phosphate buffer solutions on uniconazole complexation with hydroxypropyl-Î²-cyclodextrin and methyl-Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 73, 193-198.	1.6	7
96	Grafting Imparts Glyphosate Resistance in Soybean. Weed Technology, 2013, 27, 412-416.	0.4	7
97	A Novel Bikinin Analogue for Arabidopsis and Rice with Superior Plant Growth-Promoting Activity. Journal of Plant Growth Regulation, 2018, 37, 166-173.	2.8	7
98	Relationships Between Plant Architecture Traits and Cotton Yield Within the Plant Height Range of 80â€“120 CM Desired for Mechanical Harvesting in the Yellow River Valley of China. Agronomy, 2019, 9, 587.	1.3	7
99	Coronatine Modulated the Generation of Reactive Oxygen Species for Regulating the Water Loss Rate in the Detaching Maize Seedlings. Agriculture (Switzerland), 2021, 11, 685.	1.4	7
100	Spike Differentiation in Winter Wheat(Triticum aestivumL.) Mulched with Plastic Films During Over-Wintering Period. Agroecology and Sustainable Food Systems, 2008, 31, 133-144.	0.9	5
101	Enhanced UVâ€B Radiation Increases Glyphosate Resistance in Velvetleaf (Abutilon theophrasti). Photochemistry and Photobiology, 2012, 88, 1428-1432.	1.3	5
102	A Novel Plant Growth Regulator Alleviates Highâ€Temperature Stress in Maize. Agronomy Journal, 2018, 110, 2350-2359.	0.9	5
103	Data-Independent Acquisition Proteomics Unravels the Effects of Iron Ions on Coronatine Synthesis in Pseudomonas syringae pv. tomato DC3000. Frontiers in Microbiology, 2020, 11, 1362.	1.5	5
104	Transcriptome dynamic landscape underlying the improvement of maize lodging resistance under coronatine treatment. BMC Plant Biology, 2021, 21, 202.	1.6	5
105	Coronatine alleviates cold stress by improving growth and modulating antioxidative defense system in rice (Oryza sativa L.) seedlings. Plant Growth Regulation, 2022, 96, 283-291.	1.8	5
106	Ethephon Reduces Maize Nitrogen Uptake but Improves Nitrogen Utilization in Zea mays L.. Frontiers in Plant Science, 2021, 12, 762736.	1.7	5
107	The fate of Cry1Ac Bt toxin during oyster mushroom (Pleurotus ostreatus) cultivation on transgenic Bt cottonseed hulls. Journal of the Science of Food and Agriculture, 2008, 88, 214-217.	1.7	4
108	An ABA Functional Analogue B2 Enhanced Salt Tolerance by Inducing the Root Elongation and Reducing Peroxidation Damage in Maize Seedlings. International Journal of Molecular Sciences, 2021, 22, 12986.	1.8	4

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109	The relationship between boll retention and defoliation of cotton at the fruiting site level. Crop Science, 2022, 62, 1333-1347.	0.8	3
110	The efficacy of chemical topping in field-grown cotton is mediated by drip irrigation amount in irrigated agricultural area. Journal of Cotton Research, 2022, 5, .	1.0	3
111	Functional and binding characterization of a single chain Fv antibody to abscisic acid and conjugated abscisic acid. Food and Agricultural Immunology, 2016, 27, 624-642.	0.7	2
112	Hapten Synthesis and Monoclonal Antibody-Based Immunoassay Development for the Analysis of Thidiazuron. Journal of Plant Growth Regulation, 2016, 35, 357-365.	2.8	2
113	Dissection of the molecular genetic architecture of the ratio of ear to plant heights in response to ethylene by a RIL population with SNPs marker in maize. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	2
114	Efficient carbon recycling and modulation of antioxidants involved in elongation of the parasitic plant dodder (Cuscuta spp.) in vitro. Plant Science, 2021, 303, 110770.	1.7	2
115	Multiple applications of mepiquat chloride enhanced development of plantâ€wide fruits from square initiation to boll opening in cotton. Crop Science, 2021, 61, 2733-2744.	0.8	2
116	Better Droplet Deposition and Internode Shortening Effects of Plant Growth Regulator EDAH on Maize Applied by Small Unmanned Aerial Vehicle Than Electric Knapsack Sprayer. Agriculture (Switzerland), 2022, 12, 404.	1.4	2
117	Contact activity of difenzoquat differs from that of paraquat. Pest Management Science, 2003, 59, 928-932.	1.7	1
118	Evaluation of the Potential of Diquat (1,1â€²-Ethylene-2,2â€²-bipyridyl) to Assist Maize Mechanical Harvesting As a Desiccant. ACS Agricultural Science and Technology, 0, , .	1.0	1
119	The potassium channel GhAKT2bD is regulated by CBLâ€“CIPK calcium signaling complexes and facilitates K ⁺ allocation in cotton. FEBS Letters, 2022, , .	1.3	1
120	Effects of dapA gene deletion on coronatine biosynthesis in Pseudomonas syringae pv. glycinea PG4180. World Journal of Microbiology and Biotechnology, 2011, 27, 325-331.	1.7	0
121	Effects of row spacing, nitrogen, and mepiquat chloride application on yield and spatioâ€temporal patterns of cotton bolls in the yellow river valley of China. Agronomy Journal, 2021, 113, 61-74.	0.9	0