Jian-hua Zhang

List of Publications by Year
in descending order

229	16,322	62	117
papers	citations	h-index	g-index
		18482	19749

236	236	236	13147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Abscisic Acid on Active Oxygen Species, Antioxidative Defence System and Oxidative Damage in Leaves of Maize Seedlings. Plant and Cell Physiology, 2001, 42, 1265-1273.	3.1	788
2	Water stress-induced abscisic acid accumulation triggers the increased generation of reactive oxygen species and up-regulates the activities of antioxidant enzymes in maize leaves. Journal of Experimental Botany, 2002, 53, 2401-2410.	4.8	718
3	Hormonal Changes in the Grains of Rice Subjected to Water Stress during Grain Filling. Plant Physiology, 2001, 127, 315-323.	4.8	643
4	Grain filling of cereals under soil drying. New Phytologist, 2006, 169, 223-236.	7.3	572
5	AtMKK1 mediates ABAâ€induced <i>CAT1</i> expression and H₂O₂ production via AtMPK6â€coupled signaling in Arabidopsis. Plant Journal, 2008, 54, 440-451.	5.7	374
6	Grain-filling problem in â€˜superâ€™ rice. Journal of Experimental Botany, 2010, 61, 1-5.	4.8	359
7	Nitric oxide induced by hydrogen peroxide mediates abscisic acidâ€induced activation of the mitogenâ€activated protein kinase cascade involved in antioxidant defense in maize leaves. New Phytologist, 2007, 175, 36-50.	7.3	353
8	H2O2 mediates the regulation of ABA catabolism and GA biosynthesis in Arabidopsis seed dormancy and germination. Journal of Experimental Botany, 2010, 61, 2979-2990.	4.8	352
9	Mitogen-Activated Protein Kinase Is Involved in Abscisic Acid-Induced Antioxidant Defense and Acts Downstream of Reactive Oxygen Species Production in Leaves of Maize Plants. Plant Physiology, 2006, 141, 475-487.	4.8	332
10	Effects of water stress on photosystem II photochemistry and its thermostability in wheat plants. Journal of Experimental Botany, 1999, 50, 1199-1206.	4.8	272
11	Genome encode analyses reveal the basis of convergent evolution of fleshy fruit ripening. Nature Plants, 2018, 4, 784-791.	9.3	256
12	An Alternate Wetting and Moderate Soil Drying Regime Improves Root and Shoot Growth in Rice. Crop Science, 2009, 49, 2246-2260.	1.8	253
13	Deficit irrigation and sustainable water-resource strategies in agriculture for Chinaâ€™s food security. Journal of Experimental Botany, 2015, 66, 2253-2269.	4.8	242
14	Abscisic acid accumulation modulates auxin transport in the root tip to enhance proton secretion for maintaining root growth under moderate water stress. New Phytologist, 2013, 197, 139-150.	7.3	237
15	Remobilization of Carbon Reserves Is Improved by Controlled Soilâ€Drying during Grain Filling of Wheat. Crop Science, 2000, 40, 1645-1655.	1.8	235
16	Water Deficitâ€"Induced Senescence and Its Relationship to the Remobilization of Preâ€Stored Carbon in Wheat during Grain Filling. Agronomy Journal, 2001, 93, 196-206.	1.8	230
17	Glucose-Induced Delay of Seed Germination in Rice is Mediated by the Suppression of ABA Catabolism Rather Than an Enhancement of ABA Biosynthesis. Plant and Cell Physiology, 2009, 50, 644-651.	3.1	218
18	ABA signal in rice under stress conditions. Rice, 2012, 5, 1.	4.0	215

#	Article	IF	Citations
19	Post-anthesis development of inferior and superior spikelets in rice in relation to abscisic acid and ethylene. Journal of Experimental Botany, 2006, 57, 149-160.	4.8	201
20	Grain yield, water and nitrogen use efficiencies of rice as influenced by irrigation regimes and their interaction with nitrogen rates. Field Crops Research, 2016, 193, 54-69.	5.1	201
21	Correlation of Cytokinin Levels in the Endosperms and Roots with Cell Number and Cell Division Activity during Endosperm Development in Rice. Annals of Botany, 2002, 90, 369-377.	2.9	200
22	Remobilization of carbon reserves in response to water deficit during grain filling of rice. Field Crops Research, 2001, 71, 47-55.	5.1	185
23	ABA Controls H2O2 Accumulation Through the Induction of OsCATB in Rice Leaves Under Water Stress. Plant and Cell Physiology, 2011, 52, 689-698.	3.1	182
24	Ascorbic acid and reactive oxygen species are involved in the inhibition of seed germination by abscisic acid in rice seeds. Journal of Experimental Botany, 2012, 63, 1809-1822.	4.8	181
25	Hormones in the grains and roots in relation to post-anthesis development of inferior and superior spikelets in japonica/indica hybrid rice. Plant Physiology and Biochemistry, 2009, 47, 195-204.	5.8	176
26	Activities of starch hydrolytic enzymes and sucroseâ€phosphate synthase in the stems of rice subjected to water stress during grain filling. Journal of Experimental Botany, 2001, 52, 2169-2179.	4.8	169
27	Abscisic acid and ethylene interact in wheat grains in response to soil drying during grain filling. New Phytologist, 2006, 171, 293-303.	7.3	169
28	Nitric Oxide Mediates Brassinosteroid-Induced ABA Biosynthesis Involved in Oxidative Stress Tolerance in Maize Leaves. Plant and Cell Physiology, 2011, 52, 181-192.	3.1	167
29	Regulation of expression of starch synthesis genes by ethylene and ABA in relation to the development of rice inferior and superior spikelets. Journal of Experimental Botany, 2011, 62, 3907-3916.	4.8	159
30	Proteogenomic analysis reveals alternative splicing and translation as part of the abscisic acid response in Arabidopsis seedlings. Plant Journal, 2017, 91, 518-533.	5.7	156
31	Combination of site-specific nitrogen management and alternate wetting and drying irrigation increases grain yield and nitrogen and water use efficiency in super rice. Field Crops Research, 2013, 154, 226-235.	5.1	153
32	Nitric oxideâ€induced rapid decrease of abscisic acid concentration is required in breaking seed dormancy in Arabidopsis. New Phytologist, 2009, 183, 1030-1042.	7.3	152
33	China's success in increasing per capita food production. Journal of Experimental Botany, 2011, 62, 3707-3711.	4.8	149
34	Waterâ€Saving and Highâ€Yielding Irrigation for Lowland Rice by Controlling Limiting Values of Soil Water Potential. Journal of Integrative Plant Biology, 2007, 49, 1445-1454.	8.5	136
35	Post-anthesis alternate wetting and moderate soil drying enhances activities of key enzymes in sucrose-to-starch conversion in inferior spikelets of rice. Journal of Experimental Botany, 2012, 63, 215-227.	4.8	134
36	Hormones in the grains in relation to sink strength and postanthesis development of spikelets in rice. Plant Growth Regulation, 2003, 41, 185-195.	3.4	117

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37	The Regulator of G-Protein Signaling Proteins Involved in Sugar and Abscisic Acid Signaling in Arabidopsis Seed Germination. Plant Physiology, 2006, 140, 302-310.	4.8	117
38	Response of Root Morphology to Nitrate Supply and its Contribution to Nitrogen Accumulation in Maize. Journal of Plant Nutrition, 2005, 27, 2189-2202.	1.9	108
39	Abscisic Acid is a Key Inducer of Hydrogen Peroxide Production in Leaves of Maize Plants Exposed to Water Stress. Plant and Cell Physiology, 2006, 47, 1484-1495.	3.1	105
40	Polyamines and ethylene interact in rice grains in response to soil drying during grain filling. Journal of Experimental Botany, 2013, 64, 2523-2538.	4.8	103
41	Postanthesis Moderate Wetting Drying Improves Both Quality and Quantity of Rice Yield. Agronomy Journal, 2008, 100, 726-734.	1.8	101
42	Dynamic analysis of ABA accumulation in relation to the rate of ABA catabolism in maize tissues under water deficit. Journal of Experimental Botany, 2006, 58, 211-219.	4.8	100
43	<scp>EMPTY PERICARP</scp>16 is required for mitochondrial <i>nad2</i> intron 4 <i>cis</i>â€splicing, complex I assembly and seed development in maize. Plant Journal, 2016, 85, 507-519.	5.7	97
44	Water use and yield responses of cotton to alternate partial root-zone drip irrigation in the arid area of north-west China. Irrigation Science, 2008, 26, 147-159.	2.8	93
45	Alternate wetting and moderate soil drying increases grain yield and reduces cadmium accumulation in rice grains. Journal of the Science of Food and Agriculture, 2009, 89, 1728-1736.	3.5	92
46	PIN2 is required for the adaptation of Arabidopsis roots to alkaline stress by modulating proton secretion. Journal of Experimental Botany, 2012, 63, 6105-6114.	4.8	92
47	An improved agar-plate method for studying root growth and response of Arabidopsis thaliana. Scientific Reports, 2013, 3, 1273.	3.3	91
48	A Key ABA Catabolic Gene, OsABA8ox3, Is Involved in Drought Stress Resistance in Rice. PLoS ONE, 2015, 10, e0116646.	2.5	88
49	Abscisic acid and the key enzymes and genes in sucrose-to-starch conversion in rice spikelets in response to soil drying during grain filling. Planta, 2015, 241, 1091-1107.	3.2	87
50	Unsaturation of Very-Long-Chain Ceramides Protects Plant from Hypoxia-Induced Damages by Modulating Ethylene Signaling in Arabidopsis. PLoS Genetics, 2015, 11, e1005143.	3.5	86
51	Benefits of alternate partial root-zone irrigation on growth, water and nitrogen use efficiencies modified by fertilization and soil water status in maize. Plant and Soil, 2007, 295, 279-291.	3.7	81
52	PHOSPHATE STARVATION RESPONSE transcription factors enable arbuscular mycorrhiza symbiosis. Nature Communications, 2022, 13, 477.	12.8	81
53	An Improved Crop Management Increases Grain Yield and Nitrogen and Water Use Efficiency in Rice. Crop Science, 2013, 53, 271-284.	1.8	78
54	Low ABA concentration promotes root growth and hydrotropism through relief of ABA INSENSITIVE 1-mediated inhibition of plasma membrane H ⁺ -ATPase 2. Science Advances, 2021, 7, .	10.3	78

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55	Evaluation of six potential evapotranspiration models for estimating crop potential and actual evapotranspiration in arid regions. Journal of Hydrology, 2016, 543, 450-461.	5.4	77
56	Mitogen-activated protein kinase kinase 5 (MKK5)-mediated signalling cascade regulates expression of iron superoxide dismutase gene in <i>Arabidopsis</i> under salinity stress. Journal of Experimental Botany, 2015, 66, 5971-5981.	4.8	75
57	Arabidopsis plasma membrane H+-ATPase genes AHA2 and AHA7 have distinct and overlapping roles in the modulation of root tip H+ efflux in response to low-phosphorus stress. Journal of Experimental Botany, 2017, 68, 1731-1741.	4.8	75
58	Abscisic Acid and Ethylene Interact in Rice Spikelets in Response to Water Stress During Meiosis. Journal of Plant Growth Regulation, 2007, 26, 318-328.	5.1	73
59	NRT1.1-Related NH₄⁺ Toxicity Is Associated with a Disturbed Balance between NH₄⁺ Uptake and Assimilation. Plant Physiology, 2018, 178, 1473-1488.	4.8	72
60	Involvement of polyamines in the post-anthesis development of inferior and superior spikelets in rice. Planta, 2008, 228, 137-149.	3.2	71
61	Proanthocyanidins Inhibit Seed Germination by Maintaining a High Level of Abscisic Acid in <i>Arabidopsis thaliana</i>^F. Journal of Integrative Plant Biology, 2012, 54, 663-673.	8.5	71
62	Alternate wetting and moderate drying increases rice yield and reduces methane emission in paddy field with wheat straw residue incorporation. Food and Energy Security, 2015, 4, 238-254.	4.3	71
63	Benefits of CO2 enrichment on crop plants are modified by soil water status. Plant and Soil, 2002, 238, 69-77.	3.7	68
64	Genome duplication improves rice root resistance to salt stress. Rice, 2014, 7, 15.	4.0	68
65	Exudation rate and hydraulic conductivity of maize roots are enhanced by soil drying and abscisic acid treatment. New Phytologist, 1995, 131, 329-336.	7.3	67
66	Polyamine and ethylene interactions in grain filling of superior and inferior spikelets of rice. Plant Growth Regulation, 2012, 66, 215-228.	3.4	67
67	<i>TFT6</i> and <i>TFT7</i>, two different members of tomato 14â€3â€3 gene family, play distinct roles in plant adaption to low phosphorus stress. Plant, Cell and Environment, 2012, 35, 1393-1406.	5.7	66
68	The Tomato 14-3-3 Protein TFT4 Modulates H+ Efflux, Basipetal Auxin Transport, and the PKS5-J3 Pathway in the Root Growth Response to Alkaline Stress Â Â. Plant Physiology, 2013, 163, 1817-1828.	4.8	66
69	Abscisic Acid Regulates Auxin Distribution to Mediate Maize Lateral Root Development Under Salt Stress. Frontiers in Plant Science, 2019, 10, 716.	3.6	66
70	Growth and nutrient uptake of tea under different aluminium concentrations. Journal of the Science of Food and Agriculture, 2008, 88, 1582-1591.	3.5	63
71	Postanthesis Water Deficits Enhance Grain Filling in Twoâ€Line Hybrid Rice. Crop Science, 2003, 43, 2099-2108.	1.8	62
72	<scp>C</scp>hina's food security is threatened by the unsustainable use of water resources in <scp>N</scp>orth and <scp>N</scp>orthwest <scp>C</scp>hina. Food and Energy Security, 2014, 3, 7-18.	4.3	62

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73	Grain yield and water use efficiency of super rice under soil water deficit and alternate wetting and drying irrigation. Journal of Integrative Agriculture, 2017, 16, 1028-1043.	3.5	62
74	Overexpression of rice aquaporin <i>OsPIP1;2</i> improves yield by enhancing mesophyll CO2 conductance and phloem sucrose transport. Journal of Experimental Botany, 2019, 70, 671-681.	4.8	60
75	Aerenchyma Formed Under Phosphorus Deficiency Contributes to the Reduced Root Hydraulic Conductivity in Maize Roots. Journal of Integrative Plant Biology, 2007, 49, 598-604.	8.5	59
76	Rice root morphological and physiological traits interaction with rhizosphere soil and its effect on methane emissions in paddy fields. Soil Biology and Biochemistry, 2019, 129, 191-200.	8.8	59
77	Involvement of 14-3-3 protein GRF9 in root growth and response under polyethylene glycol-induced water stress. Journal of Experimental Botany, 2015, 66, 2271-2281.	4.8	58
78	Rhizosheath formation and involvement in foxtail millet (<i>Setaria italica</i>) root growth under drought stress. Journal of Integrative Plant Biology, 2019, 61, 449-462.	8.5	58
79	Disruption of the Arabidopsis Defense Regulator Genes SAG101, EDS1, and PAD4 Confers Enhanced Freezing Tolerance. Molecular Plant, 2015, 8, 1536-1549.	8.3	55
80	Tissueâ€specific Hiâ€C analyses of rice, foxtail millet and maize suggest nonâ€canonical function of plant chromatin domains. Journal of Integrative Plant Biology, 2020, 62, 201-217.	8.5	54
81	Full-Length Transcript-Based Proteogenomics of Rice Improves Its Genome and Proteome Annotation. Plant Physiology, 2020, 182, 1510-1526.	4.8	53
82	Flood and drought tolerance in rice: opposite butÂmayÂcoexist. Food and Energy Security, 2016, 5, 76-88.	4.3	52
83	Desiccation tolerance in bryophytes: The dehydration and rehydration transcriptomes in the desiccation-tolerant bryophyte Bryum argenteum. Scientific Reports, 2017, 7, 7571.	3.3	50
84	Effects of alternate partial root-zone irrigation on soil microorganism and maize growth. Plant and Soil, 2008, 302, 45-52.	3.7	49
85	Modulation of Anti-Oxidation Ability by Proanthocyanidins during Germination of Arabidopsis thaliana Seeds. Molecular Plant, 2012, 5, 472-481.	8.3	49
86	Flavonoids are indispensable for complete male fertility in rice. Journal of Experimental Botany, 2020, 71, 4715-4728.	4.8	48
87	Effects of water stress on photosystem II photochemistry and its thermostability in wheat plants. Journal of Experimental Botany, 1999, 50, 1199-1206.	4.8	48
88	Reduced ABA Accumulation in the Root System is Caused by ABA Exudation in Upland Rice (Oryza sativa) Tj ETQq0 0 0 rgBT /Overlock 1	3.1	47
89	Comparative Analysis of Arabidopsis Ecotypes Reveals a Role for Brassinosteroids in Root Hydrotropism. Plant Physiology, 2018, 176, 2720-2736.	4.8	46
90	Rhizobium inoculation enhances copper tolerance by affecting copper uptake and regulating the ascorbate-glutathione cycle and phytochelatin biosynthesis-related gene expression in Medicago sativa seedlings. Ecotoxicology and Environmental Safety, 2018, 162, 312-323.	6.0	46

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91	Title is missing!. Plant and Soil, 2003, 254, 279-289.	3.7	45
92	Transcriptomic analysis of grain filling in rice inferior grains under moderate soil drying. Journal of Experimental Botany, 2019, 70, 1597-1611.	4.8	45
93	Hydrogen Sulfide Promotes Nodulation and Nitrogen Fixation in Soybeanâ€"Rhizobia Symbiotic System. Molecular Plant-Microbe Interactions, 2019, 32, 972-985.	2.6	42
94	Trends in rice research: 2030 and beyond. Food and Energy Security, 2023, 12, .	4.3	42
95	Cross-talks between Ca2+/CaM and H2O2 in abscisic acid-induced antioxidant defense in leaves of maize plants exposed to water stress. Plant Growth Regulation, 2008, 55, 183-198.	3.4	41
96	Copper Suppresses Abscisic Acid Catabolism and Catalase Activity, and Inhibits Seed Germination of Rice. Plant and Cell Physiology, 2014, 55, 2008-2016.	3.1	41
97	Combining alternate wetting and drying irrigation with reduced phosphorus fertilizer application reduces water use and promotes phosphorus use efficiency without yield loss in rice plants. Agricultural Water Management, 2019, 223, 105686.	5.6	41
98	Modulation of the root-sourced ABA signal along its way to the shoot in Vitis ripariaxVitis labrusca under water deficit. Journal of Experimental Botany, 2011, 62, 1731-1741.	4.8	40
99	Suppression of OsMDHAR4 enhances heat tolerance by mediating H2O2-induced stomatal closure in rice plants. Rice, 2018, 11, 38.	4.0	40
100	Title is missing!. Plant Growth Regulation, 1997, 21, 43-49.	3.4	39
101	Diurnal and seasonal variations of sap flow of <i>Caragana korshinskii</i> in the arid desert region of northâ€west China. Hydrological Processes, 2008, 22, 1197-1205.	2.6	38
102	Recruitment of specific flavonoid Bâ€ring hydroxylases for two independent biosynthesis pathways of flavoneâ€derived metabolites in grasses. New Phytologist, 2019, 223, 204-219.	7.3	38
103	PlantSPEAD: a web resource towards comparatively analysing stressâ€responsive expression of splicingâ€related proteins in plant. Plant Biotechnology Journal, 2021, 19, 227-229.	8.3	38
104	Comparison on physiological adaptation and phosphorus use efficiency of upland rice and lowland rice under alternate wetting and drying irrigation. Plant Growth Regulation, 2018, 86, 195-210.	3.4	37
105	Root-Bacteria Associations Boost Rhizosheath Formation in Moderately Dry Soil through Ethylene Responses. Plant Physiology, 2020, 183, 780-792.	4.8	37
106	Stomatal closure is induced rather by prevailing xylem abscisic acid than by accumulated amount of xylem-derived abscisic acid. Physiologia Plantarum, 1999, 106, 268-275.	5.2	36
107	Title is missing!. Plant Growth Regulation, 1999, 29, 77-86.	3.4	36
108	Role of light in the response of PSII photochemistry to salt stress in the cyanobacterium Spirulina platensis. Journal of Experimental Botany, 2000, 51, 911-917.	4.8	36

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109	Carbon Remobilization and Grain Filling in Japonica/Indica Hybrid Rice Subjected to Postanthesis Water Deficits. Agronomy Journal, 2002, 94, 102.	1.8	36
110	Agronomic and Physiological Performance of Rice under Integrative Crop Management. Agronomy Journal, 2016, 108, 117-128.	1.8	35
111	Regulation of Gene Expression in the Remobilization of Carbon Reserves in Rice Stems During Grain Filling. Plant and Cell Physiology, 2017, 58, 1391-1404.	3.1	35
112	Role of brassinosteroids in rice spikelet differentiation and degeneration under soil-drying during panicle development. BMC Plant Biology, 2019, 19, 409.	3.6	35
113	Moderate water stress in rice induces rhizosheath formation associated with abscisic acid and auxin responses. Journal of Experimental Botany, 2020, 71, 2740-2751.	4.8	35
114	Alternate wetting and drying irrigation and phosphorus rates affect grain yield and quality and heavy metal accumulation in rice. Science of the Total Environment, 2021, 752, 141862.	8.0	35
115	Involvement of the abscisic acid catabolic gene <i>CYP707A2</i> in the glucoseâ€induced delay in seed germination and postâ€germination growth of <i>Arabidopsis</i>. Physiologia Plantarum, 2011, 143, 375-384.	5.2	34
116	Reprint of â€œMorphological and physiological traits of roots and their relationships with water productivity in water-saving and drought-resistant riceâ€. Field Crops Research, 2014, 165, 36-48.	5.1	34
117	A coupled surface resistance model to estimate crop evapotranspiration in arid region of northwest China. Hydrological Processes, 2014, 28, 2312-2323.	2.6	34
118	Calciumâ€dependent protein kinase <scp>CPK</scp>28 targets the methionine adenosyltransferases for degradation by the 26S proteasome and affects ethylene biosynthesis and lignin deposition in Arabidopsis. Plant Journal, 2017, 90, 304-318.	5.7	34
119	Comparison of Structural and Functional Properties of Wheat Starch Under Different Soil Drought Conditions. Scientific Reports, 2017, 7, 12312.	3.3	34
120	Perception, transduction, and integration of nitrogen and phosphorus nutritional signals in the transcriptional regulatory network in plants. Journal of Experimental Botany, 2019, 70, 3709-3717.	4.8	34
121	Brassinosteroids function in spikelet differentiation and degeneration in rice. Journal of Integrative Plant Biology, 2019, 61, 943-963.	8.5	34
122	The ammonium/nitrate ratio is an input signal in the temperatureâ€modulated, <i><scp>SNC</scp>1</i>â€mediated and <i><scp>EDS</scp>1</i>â€dependent autoimmunity of <i>nudt6â€2Ânudt7</i>. Plant Journal, 2013, 73, 262-275.	5.7	33
123	SWATH-MS Quantitative Proteomic Investigation Reveals a Role of Jasmonic Acid during Lead Response in <i>Arabidopsis</i>. Journal of Proteome Research, 2016, 15, 3528-3539.	3.7	33
124	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.	2.4	32
125	Transpiration coefficient and ratio of transpiration to evapotranspiration of pear tree (Pyrus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 1165-1176.	2.6	31
126	Antagonism between abscisic acid and gibberellins is partially mediated by ascorbic acid during seed germination in rice. Plant Signaling and Behavior, 2012, 7, 563-565.	2.4	31

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127	AtDsPTP1 acts as a negative regulator in osmotic stress signalling during Arabidopsis seed germination and seedling establishment. Journal of Experimental Botany, 2015, 66, 1339-1353.	4.8	31
128	Comparative metabolite profiling of two switchgrass ecotypes reveals differences in drought stress responses and rhizosheath weight. Planta, 2019, 250, 1355-1369.	3.2	31
129	Alternative splicing and its regulatory role in woody plants. Tree Physiology, 2020, 40, 1475-1486.	3.1	31
130	Modulation of Root Signals in Relation to Stomatal Sensitivity to Rootâ€sourced Abscisic Acid in Droughtâ€affected Plants. Journal of Integrative Plant Biology, 2007, 49, 1410-1420.	8.5	30
131	Phylogenetic comparison of 5â€² splice site determination in central spliceosomal proteins of the <i>U1â€70K</i> gene family, in response to developmental cues and stress conditions. Plant Journal, 2020, 103, 357-378.	5.7	30
132	Growth and Major Nutrient Concentrations in Brassica campestris Supplied with Different NH4+/NO3?Ratios. Journal of Integrative Plant Biology, 2007, 49, 455-462.	8.5	29
133	Ethylene and ACC levels in developing grains are related to the poor appearance and milling quality of rice. Plant Growth Regulation, 2009, 58, 85-96.	3.4	29
134	Regulation of gene expression involved in the remobilization of rice straw carbon reserves results from moderate soil drying during grain filling. Plant Journal, 2020, 101, 604-618.	5.7	29
135	Expression of proteins in superior and inferior spikelets of rice during grain filling under different irrigation regimes. Proteomics, 2016, 16, 102-121.	2.2	28
136	Hydrogen sulfide and rhizobia synergistically regulate nitrogen (N) assimilation and remobilization during N deficiencyâ€induced senescence in soybean. Plant, Cell and Environment, 2020, 43, 1130-1147.	5.7	28
137	Drought stress and plant ecotype drive microbiome recruitment in switchgrass rhizosheath. Journal of Integrative Plant Biology, 2021, 63, 1753-1774.	8.5	28
138	A Phylogenetically Informed Comparison of GH1 Hydrolases between Arabidopsis and Rice Response to Stressors. Frontiers in Plant Science, 2017, 8, 350.	3.6	27
139	Carbohydrate, hormone and enzyme regulations of rice grain filling under post-anthesis soil drying. Environmental and Experimental Botany, 2020, 178, 104165.	4.2	27
140	<i>OsTPP1</i> regulates seed germination through the crosstalk with abscisic acid in rice. New Phytologist, 2021, 230, 1925-1939.	7.3	27
141	CARBOHYDRATE STORAGE AND UTILIZATION DURING GRAIN FILLING AS REGULATED BY NITROGEN APPLICATION IN TWO WHEAT CULTIVARS. Journal of Plant Nutrition, 2002, 25, 213-229.	1.9	26
142	Nitrogen Fertilization on Uptake of Soil Inorganic Phosphorus Fractions in the Wheat Root Zone. Soil Science Society of America Journal, 2004, 68, 1890-1895.	2.2	26
143	Regulation Mechanisms of Stomatal Oscillation. Journal of Integrative Plant Biology, 2005, 47, 1159-1172.	8.5	25
144	Mechanism Enhancing Arabidopsis Resistance to Cadmium: The Role of NRT1.5 and Proton Pump. Frontiers in Plant Science, 2018, 9, 1892.	3.6	24

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145	Involvement of OsGF14b Adaptation in the Drought Resistance of Rice Plants. Rice, 2019, 12, 82.	4.0	24
146	Xylem sap flows of irrigatedTamarix elongata Ledeb and the influence of environmental factors in the desert region of Northwest China. Hydrological Processes, 2007, 21, 1363-1369.	2.6	23
147	SWATH-MS-facilitated proteomic profiling of fruit skin between Fuji apple and a red skin bud sport mutant. BMC Plant Biology, 2019, 19, 445.	3.6	23
148	Effect of leaf water status and xylem pH on metabolism of xylem-transported abscisic acid. Plant Growth Regulation, 1997, 21, 51-58.	3.4	22
149	Class III peroxidases are activated in proanthocyanidin-deficient Arabidopsis thaliana seeds. Annals of Botany, 2013, 111, 839-847.	2.9	22
150	Coordination of root auxin with the fungus <i>Piriformospora indica</i> and bacterium <i>Bacillus cereus</i> enhances rice rhizosheath formation under soil drying. ISME Journal, 2022, 16, 801-811.	9.8	22
151	Preferential Geographic Distribution Pattern of Abiotic Stress Tolerant Rice. Rice, 2018, 11, 10.	4.0	21
152	Identification, Classification, and Functional Analysis of AP2/ERF Family Genes in the Desert Moss Bryum argenteum. International Journal of Molecular Sciences, 2018, 19, 3637.	4.1	21
153	Unravelling calcium-alleviated aluminium toxicity in Arabidopsis thaliana: Insights into regulatory mechanisms using proteomics. Journal of Proteomics, 2019, 199, 15-30.	2.4	21
154	Jasmonates alleviate spikeletâ€opening impairment caused by high temperature stress during anthesis of photoâ€thermoâ€sensitive genic male sterile rice lines. Food and Energy Security, 2020, 9, e233.	4.3	21
155	Frequent alternate wetting and drying irrigation mitigates the effect of low phosphorus on rice grain yield in a 4â€year field trial by increasing soil phosphorus release and rice root growth. Food and Energy Security, 2020, 9, e206.	4.3	21
156	Analysis of Global Methylome and Gene Expression during Carbon Reserve Mobilization in Stems under Soil Drying. Plant Physiology, 2020, 183, 1809-1824.	4.8	21
157	Hydrogen sulfide is a crucial element of the antioxidant defense system in Glycine maxâ€“Sinorhizobium fredii symbiotic root nodules. Plant and Soil, 2020, 449, 209-231.	3.7	21
158	Synergistic interaction between ABA and IAA due to moderate soil drying promotes grain filling of inferior spikelets in rice. Plant Journal, 2022, 109, 1457-1472.	5.7	20
159	Much Improved Water Use Efficiency of Rice under Nonâ€Flooded Mulching Cultivation. Journal of Integrative Plant Biology, 2007, 49, 1527-1534.	8.5	19
160	Ancestral gene duplications in mosses characterized by integrated phylogenomic analyses. Journal of Systematics and Evolution, 2022, 60, 144-159.	3.1	19
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