Qin Zhou

List of Publications by Year
in descending order

47 papers	1,235 citations	331259 21 h-index	395343 33 g-index
49 all docs	49 docs citations	49 times ranked	1239 citing authors

#	Article	IF	Citations
1	Winter Wheat Photosynthesis and Grain Yield Responses to Spring Freeze. Agronomy Journal, 2015, 107, 1002-1010.	0.9	77
2	Parental Drought-Priming Enhances Tolerance to Post-anthesis Drought in Offspring of Wheat. Frontiers in Plant Science, 2018, 9, 261.	1.7	75
3	Embryonic exposure to corticosterone modifies aggressive behavior through alterations of the hypothalamic pituitary adrenal axis and the serotonergic system in the chicken. Hormones and Behavior, 2014, 65, 97-105.	1.0	68
4	Heat Priming Induces Trans-generational Tolerance to High Temperature Stress in Wheat. Frontiers in Plant Science, 2016, 7, 501.	1.7	65
5	Hydrogen Peroxide and Abscisic Acid Mediate Salicylic Acid-Induced Freezing Tolerance in Wheat. Frontiers in Plant Science, 2018, 9, 1137.	1.7	65
6	Genome-wide identification and characterization of the SBP-box gene family in Petunia. BMC Genomics, 2018, 19, 193.	1.2	64
7	Physiological and proteomic mechanisms of waterlogging priming improves tolerance to waterlogging stress in wheat (Triticum aestivum L.). Environmental and Experimental Botany, 2016, 132, 175-182.	2.0	59
8	Water-Extractable Arabinoxylan-Induced Changes in the Conformation and Polymerization Behavior of Gluten upon Thermal Treatment. Journal of Agricultural and Food Chemistry, 2020, 68, 4005-4016.	2.4	45
9	Salicylic acid and cold priming induce late-spring freezing tolerance by maintaining cellular redox homeostasis and protecting photosynthetic apparatus in wheat. Plant Growth Regulation, 2020, 90, 109-121.	1.8	42
10	Changes in carbon and nitrogen allocation, growth and grain yield induced by arbuscular mycorrhizal fungi in wheat (Triticum aestivum L.) subjected to a period of water deficit. Plant Growth Regulation, 2015, 75, 751-760.	1.8	40
11	Wheat plants exposed to winter warming are more susceptible to low temperature stress in the spring. Plant Growth Regulation, 2015, 77, 11-19.	1.8	38
12	Nitric Oxide and Hydrogen Peroxide Mediate Wounding-Induced Freezing Tolerance through Modifications in Photosystem and Antioxidant System in Wheat. Frontiers in Plant Science, 2017, 8, 1284.	1.7	37
13	Nitrogen topdressing timing influences the spatial distribution patterns of protein components and quality traits of flours from different pearling fractions of wheat (Triticum aestivum L.) grains. Field Crops Research, 2018, 216, 120-128.	2.3	34
14	Salt stress increases content and size of glutenin macropolymers in wheat grain. Food Chemistry, 2016, 197, 516-521.	4.2	32
15	Alleviation of Field Low-Temperature Stress in Winter Wheat by Exogenous Application of Salicylic Acid. Journal of Plant Growth Regulation, 2021, 40, 811-823.	2.8	31
16	Nitrogen topdressing timing modifies free amino acids profiles and storage protein gene expression in wheat grain. BMC Plant Biology, 2018, 18, 353.	1.6	28
17	Nitrogen topdressing timing modifies the gluten quality and grain hardness related protein levels as revealed by iTRAQ. Food Chemistry, 2019, 277, 135-144.	4.2	28
18	Simultaneous Prediction of Wheat Yield and Grain Protein Content Using Multitask Deep Learning from Time-Series Proximal Sensing. Plant Phenomics, 2022, 2022, 9757948.	2.5	28

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19	Spatial distribution patterns of protein and starch in wheat grain affect baking quality of bread and biscuit. Journal of Cereal Science, 2018, 79, 362-369.	1.8	24
20	The Role of Hydrogen Peroxide in Mediating the Mechanical Wounding-Induced Freezing Tolerance in Wheat. Frontiers in Plant Science, 2018, 9, 327.	1.7	24
21	Mechano-stimulated modifications in the chloroplast antioxidant system and proteome changes are associated with cold response in wheat. BMC Plant Biology, 2015, 15, 219.	1.6	23
22	Increasing plant density improves grain yield, protein quality and nitrogen agronomic efficiency of soft wheat cultivars with reduced nitrogen rate. Field Crops Research, 2021, 267, 108145.	2.3	23
23	Changes of transcriptome and proteome are associated with the enhanced post-anthesis high temperature tolerance induced by pre-anthesis heat priming in wheat. Plant Growth Regulation, 2016, 79, 135-145.	1.8	22
24	Effect of post-anthesis waterlogging on biosynthesis and granule size distribution of starch in wheat grains. Plant Physiology and Biochemistry, 2018, 132, 222-228.	2.8	22
25	Variations in Protein Concentration and Nitrogen Sources in Different Positions of Grain in Wheat. Frontiers in Plant Science, 2016, 7, 942.	1.7	21
26	Early Abscisic Acid Accumulation Regulates Ascorbate and Glutathione Metabolism in Soybean Leaves Under Progressive Water Stress. Journal of Plant Growth Regulation, 2016, 35, 865-876.	2.8	20
27	Relationships of protein composition, gluten structure, and dough rheological properties with short biscuits quality of soft wheat varieties. Agronomy Journal, 2020, 112, 1921-1930.	0.9	17
28	Crosstalk between hydrogen peroxide and nitric oxide mediates primingâ€induced drought tolerance in wheat. Journal of Agronomy and Crop Science, 2021, 207, 224-235.	1.7	17
29	Herbicide isoproturon aggravates the damage of low temperature stress and exogenous ascorbic acid alleviates the combined stress in wheat seedlings. Plant Growth Regulation, 2018, 84, 293-301.	1.8	15
30	Soil nitrogen balance and nitrogen utilization of winter wheat affected by straw management and nitrogen application in the Yangtze river basin of China. Archives of Agronomy and Soil Science, 2019, 65, 1-15.	1.3	15
31	Involvement of salicylic acid in cold priming-induced freezing tolerance in wheat plants. Plant Growth Regulation, 2021, 93, 117-130.	1.8	13
32	Effects of Cold and Salicylic Acid Priming on Free Proline and Sucrose Accumulation in Winter Wheat UnderÂFreezing Stress. Journal of Plant Growth Regulation, 2022, 41, 2171-2184.	2.8	12
33	Metabolomic analysis of the grain pearling fractions of six bread wheat varieties. Food Chemistry, 2022, 369, 130881.	4.2	12
34	Waterlogging and simulated acid rain after anthesis deteriorate starch quality in wheat grain. Plant Growth Regulation, 2018, 85, 257-265.	1.8	11
35	Identification and characterization of FRUITFULL-like genes from Platanus acerifolia, a basal eudicot tree. Plant Science, 2019, 280, 206-218.	1.7	11
36	An Integrated Method for Tracking and Monitoring Stomata Dynamics from Microscope Videos. Plant Phenomics, 2021, 2021, 9835961.	2.5	11

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37	Influence of starch physicochemical properties on biscuit-making quality of wheat lines with high-molecular-weight glutenin subunit (HMW-GS) absence. LWT - Food Science and Technology, 2022, 158, 113166.	2.5	11
38	Reducing nitrogen rate and increasing plant density benefit processing quality by modifying the spatial distribution of protein bodies and gluten proteins in endosperm of a soft wheat cultivar. Field Crops Research, 2020, 253, 107831.	2.3	9
39	Triadimefon Induced C and N Metabolism and Root Ultra-Structural Changes for Drought Stress Protection in Soybean at Flowering Stage. Journal of Plant Growth Regulation, 2016, 35, 222-231.	2.8	8
40	Effects of Nitrogen Fertilizer on Quality Characteristics of Wheat with the Absence of Different Individual High-Molecular-Weight Glutenin Subunits (HMW-GSs). International Journal of Molecular Sciences, 2022, 23, 2178.	1.8	8
41	Improvement of pistillate flowers yield with GA3 in heavy metals treated plants. Plant Growth Regulation, 2006, 48, 247.	1.8	7
42	Starch granule size distribution in wheat endosperm indirectly correlates to pasting property indicated by near-isogenic lines with different null-waxy alleles. Starch/Staerke, 2017, 69, 1600139.	1.1	7
43	Reducing Nitrogen Rate and Increasing Plant Density Accomplished High Yields with Satisfied Grain Quality of Soft Wheat via Modifying the Free Amino Acid Supply and Storage Protein Gene Expression. Journal of Agricultural and Food Chemistry, 2022, 70, 2146-2159.	2.4	7
44	Relationship of Starch Pasting Properties and Dough Rheology, and the Role of Starch in Determining Quality of Short Biscuit. Frontiers in Plant Science, 2022, 13, 829229.	1.7	4
45	Accumulation of Highâ€Molecularâ€Weight Glutenin Subunits in Superior and Inferior Grains of a Winter Wheat, Yangmai 158. Cereal Chemistry, 2017, 94, 508-512.	1.1	3
46	Investigation on the Molecular and Physicochemical Changes of Protein and Starch of Wheat Flour during Heating. Foods, 2021, 10, 1419.	1.9	1
47	Wheat quality under global climate change: consequences, mechanisms, and countermeasures. , 2022, , 103-135.		0