

Zhimin Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

803
citations

17
h-index

27
g-index

46
ext. papers

1,189
ext. citations

5.4
avg, IF

4.28
L-index

#	Paper	IF	Citations
44	The uncertainty of crop yield projections is reduced by improved temperature response functions. <i>Nature Plants</i> , 2017 , 3, 17102	11.5	95
43	Improving water use efficiency and grain yield of winter wheat by optimizing irrigations in the North China Plain. <i>Field Crops Research</i> , 2018 , 221, 219-227	5.5	79
42	Characteristics of canopy structure and contributions of non-leaf organs to yield in winter wheat under different irrigated conditions. <i>Field Crops Research</i> , 2011 , 123, 187-195	5.5	60
41	Reduced irrigation increases the water use efficiency and productivity of winter wheat-summer maize rotation on the North China Plain. <i>Science of the Total Environment</i> , 2018 , 618, 112-120	10.2	57
40	Micro-irrigation improves grain yield and resource use efficiency by co-locating the roots and N-fertilizer distribution of winter wheat in the North China Plain. <i>Science of the Total Environment</i> , 2018 , 643, 367-377	10.2	50
39	A reappraisal of the critical nitrogen concentration of wheat and its implications on crop modeling. <i>Field Crops Research</i> , 2014 , 164, 65-73	5.5	38
38	Meta-analysis of no-tillage effect on wheat and maize water use efficiency in China. <i>Science of the Total Environment</i> , 2018 , 635, 1372-1382	10.2	31
37	Comparative Proteome Analysis of Wheat Flag Leaves and Developing Grains Under Water Deficit. <i>Frontiers in Plant Science</i> , 2018 , 9, 425	6.2	28
36	Performance of different cropping systems across precipitation gradient in North China Plain. <i>Agricultural and Forest Meteorology</i> , 2018 , 259, 162-172	5.8	26
35	Biochar altered native soil organic carbon by changing soil aggregate size distribution and native SOC in aggregates based on an 8-year field experiment. <i>Science of the Total Environment</i> , 2020 , 708, 134829	10.2	24
34	Maize Grain Yield and Dry Matter Production Responses to Variations in Weather Conditions. <i>Agronomy Journal</i> , 2016 , 108, 196-204	2.2	24
33	Subsoiling practices change root distribution and increase post-anthesis dry matter accumulation and yield in summer maize. <i>PLoS ONE</i> , 2017 , 12, e0174952	3.7	23
32	Optimized micro-sprinkling irrigation scheduling improves grain yield by increasing the uptake and utilization of water and nitrogen during grain filling in winter wheat. <i>Agricultural Water Management</i> , 2019 , 211, 59-69	5.9	23
31	Effects of micro-sprinkling with different irrigation amount on grain yield and water use efficiency of winter wheat in the North China Plain. <i>Agricultural Water Management</i> , 2019 , 224, 105736	5.9	22
30	Effects of water deficit on breadmaking quality and storage protein compositions in bread wheat (<i>Triticum aestivum</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 4357-4368	4.3	22
29	Significance of disposable presowing irrigation in wheat in increasing water use efficiency and maintaining high yield under winter wheat-summer maize rotation in the North China Plain. <i>Agricultural Water Management</i> , 2019 , 225, 105766	5.9	17
28	Dynamic metabolome profiling reveals significant metabolic changes during grain development of bread wheat (<i>Triticum aestivum</i> L.). <i>Journal of the Science of Food and Agriculture</i> , 2016 , 96, 3731-40	4.3	17

27	Predicting micronutrients of wheat using hyperspectral imaging. <i>Food Chemistry</i> , 2021 , 343, 128473	8.5	17
26	Effect of source-sink manipulation on accumulation of micronutrients and protein in wheat grains. <i>Journal of Plant Nutrition and Soil Science</i> , 2012 , 175, 622-629	2.3	16
25	Grain Yield and Water Use Efficiency in Extremely-Late Sown Winter Wheat Cultivars under Two Irrigation Regimes in the North China Plain. <i>PLoS ONE</i> , 2016 , 11, e0153695	3.7	16
24	The contribution of spike photosynthesis to wheat yield needs to be considered in process-based crop models. <i>Field Crops Research</i> , 2020 , 257, 107931	5.5	13
23	Effects of Independent and Combined Water-Deficit and High-Nitrogen Treatments on Flag Leaf Proteomes during Wheat Grain Development. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
22	Accuracy of root modelling and its impact on simulated wheat yield and carbon cycling in soil. <i>Field Crops Research</i> , 2014 , 165, 99-110	5.5	12
21	Does maize hybrid intercropping increase yield due to border effects?. <i>Field Crops Research</i> , 2017 , 214, 283-290	5.5	10
20	Value of groundwater used for producing extra grain in North China Plain. <i>Field Crops Research</i> , 2017 , 210, 47-51	5.5	8
19	Cultivar Mixture Cropping Increased Water Use Efficiency in Winter Wheat under Limited Irrigation Conditions. <i>PLoS ONE</i> , 2016 , 11, e0158439	3.7	8
18	Spike growth affects spike fertility through the number of florets with green anthers before floret abortion in wheat. <i>Field Crops Research</i> , 2021 , 260, 108007	5.5	8
17	Effects of manure on topsoil and subsoil organic carbon depend on irrigation regimes in a 9-year wheat-maize rotation. <i>Soil and Tillage Research</i> , 2021 , 205, 104790	6.5	7
16	Limited irrigation influence on rotation yield, water use, and wheat traits. <i>Agronomy Journal</i> , 2020 , 112, 241-256	2.2	5
15	Effects of water deficit and different nitrogen fertilizer treatments on the quality of wheat for Chinese fresh white noodles and steamed bread and the composition of storage proteins. <i>Journal of the Science of Food and Agriculture</i> , 2019 , 99, 6431-6443	4.3	5
14	Optimum Water and Nitrogen Management Increases Grain Yield and Resource Use Efficiency by Optimizing Canopy Structure in Wheat. <i>Agronomy</i> , 2021 , 11, 441	3.6	5
13	Suppressed ABA signal transduction in the spike promotes sucrose use in the stem and reduces grain number in wheat under water stress. <i>Journal of Experimental Botany</i> , 2020 , 71, 7241-7256	7	4
12	Increasing seeding density under limited irrigation improves crop yield and water productivity of winter wheat by constructing a reasonable population architecture. <i>Agricultural Water Management</i> , 2021 , 253, 106951	5.9	4
11	Estimation of Above-Ground Biomass of Winter Wheat Based on Consumer-Grade Multi-Spectral UAV. <i>Remote Sensing</i> , 2022 , 14, 1251	5	4
10	Optimizing single irrigation scheme to improve water use efficiency by manipulating winter wheat sink-source relationships in Northern China Plain. <i>PLoS ONE</i> , 2018 , 13, e0193895	3.7	2

9	Effects of foliar application of micronutrients on concentration and bioavailability of zinc and iron in wheat landraces and cultivars. <i>Scientific Reports</i> , 2021 , 11, 22782	4.9	2
8	Optimizing nitrogen fertilizer application under reduced irrigation strategies for winter wheat of the north China plain. <i>Irrigation Science</i> , 2022 , 40, 255	3.1	1
7	Dry matter and nitrogen accumulation and remobilization in wheat as affected by genotype and irrigation. <i>Journal of Plant Nutrition</i> , 2017 , 40, 2279-2289	2.3	1
6	Spectroscopic Estimation of N Concentration in Wheat Organs for Assessing N Remobilization Under Different Irrigation Regimes. <i>Frontiers in Plant Science</i> , 2021 , 12, 657578	6.2	1
5	Micro-sprinkling irrigation simultaneously improves grain yield and protein concentration of winter wheat in the North China Plain. <i>Crop Journal</i> , 2021 , 9, 1397-1397	4.6	1
4	The use of manure shifts the response of α diversity and network while not β diversity of soil microbes to altered irrigation regimes. <i>Applied Soil Ecology</i> , 2022 , 174, 104423	5	1
3	SIMULATION OF SOIL WATER CONTENT FOR IRRIGATION MANAGEMENT BASED ON ON-FIELD AND CERES-WHEAT SIMULATED DATA IN WINTER WHEAT IN THE NORTH CHINA PLAIN. <i>Irrigation and Drainage</i> , 2019 , 68, 753-764	1.1	0
2	<i>Papiliotrema flavescens</i> colonized in biochars inhibits wheat crown rot and Fusarium head blight. <i>Biochar</i> , 2021 , 3, 625	10	0
1	Did Wheat Breeding Simultaneously Alter Grain Concentrations of Macro- and Micro-Nutrient Over the Past 80 Years of Cultivar Releasing in China?. <i>Frontiers in Plant Science</i> , 2022 , 13, 872781	6.2	0