

Xiying Zhang

List of Publications by Year in descending order

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71
papers

4,451
citations

109137

35
h-index

106150

65
g-index

71
all docs

71
docs citations

71
times ranked

3194
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of daily evaporation and evapotranspiration of winter wheat and maize by large-scale weighing lysimeter and micro-lysimeter. <i>Agricultural and Forest Meteorology</i> , 2002, 111, 109-120.	1.9	466
2	Effect of precipitation change on water balance and WUE of the winter wheat–summer maize rotation in the North China Plain. <i>Agricultural Water Management</i> , 2010, 97, 1139-1145.	2.4	245
3	Dry matter, harvest index, grain yield and water use efficiency as affected by water supply in winter wheat. <i>Irrigation Science</i> , 2008, 27, 1-10.	1.3	199
4	Conserving groundwater for irrigation in the North China Plain. <i>Irrigation Science</i> , 2003, 21, 159-166.	1.3	181
5	Root Phenotyping for Drought Tolerance: A Review. <i>Agronomy</i> , 2018, 8, 241.	1.3	175
6	Improved Water Use Efficiency Associated with Cultivars and Agronomic Management in the North China Plain. <i>Agronomy Journal</i> , 2005, 97, 783-790.	0.9	161
7	An improved water use efficiency of cereals under temporal and spatial deficit irrigation in north China. <i>Agricultural Water Management</i> , 2010, 97, 66-74.	2.4	158
8	Root growth and soil water utilization of winter wheat in the North China Plain. <i>Hydrological Processes</i> , 2004, 18, 2275-2287.	1.1	157
9	Root size, distribution and soil water depletion as affected by cultivars and environmental factors. <i>Field Crops Research</i> , 2009, 114, 75-83.	2.3	141
10	Water use efficiency and evapotranspiration of winter wheat and its response to irrigation regime in the north China plain. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1848-1859.	1.9	136
11	Changes in evapotranspiration over irrigated winter wheat and maize in North China Plain over three decades. <i>Agricultural Water Management</i> , 2011, 98, 1097-1104.	2.4	136
12	Effects of harvest and sowing time on the performance of the rotation of winter wheat–summer maize in the North China Plain. <i>Industrial Crops and Products</i> , 2007, 25, 239-247.	2.5	123
13	Contribution of cultivar, fertilizer and weather to yield variation of winter wheat over three decades: A case study in the North China Plain. <i>European Journal of Agronomy</i> , 2013, 50, 52-59.	1.9	115
14	Water use efficiency and associated traits in winter wheat cultivars in the North China Plain. <i>Agricultural Water Management</i> , 2010, 97, 1117-1125.	2.4	113
15	Performance of Double-Cropped Winter Wheat-Summer Maize under Minimum Irrigation in the North China Plain. <i>Agronomy Journal</i> , 2006, 98, 1620-1626.	0.9	112
16	Optimizing irrigation management for wheat to reduce groundwater depletion in the piedmont region of the Taihang Mountains in the North China Plain. <i>Agricultural Water Management</i> , 2006, 82, 25-44.	2.4	102
17	Quantifying the impact of irrigation on groundwater reserve and crop production – A case study in the North China Plain. <i>European Journal of Agronomy</i> , 2015, 70, 48-56.	1.9	100
18	Responses of yield and WUE of winter wheat to water stress during the past three decades – A case study in the North China Plain. <i>Agricultural Water Management</i> , 2017, 179, 47-54.	2.4	100

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19	Optimizing the yield of winter wheat by regulating water consumption during vegetative and reproductive stages under limited water supply. <i>Irrigation Science</i> , 2013, 31, 1103-1112.	1.3	95
20	Changes in water use efficiency and water footprint in grain production over the past 35 years: a case study in the North China Plain. <i>Journal of Cleaner Production</i> , 2016, 116, 71-79.	4.6	79
21	Impact of different cropping systems and irrigation schedules on evapotranspiration, grain yield and groundwater level in the North China Plain. <i>Agricultural Water Management</i> , 2019, 211, 202-209.	2.4	67
22	Determination of water consumption and the water-saving potential of three mulching methods in a jujube orchard. <i>European Journal of Agronomy</i> , 2012, 43, 87-95.	1.9	65
23	The effects of nitrogen supply and water regime on instantaneous WUE, time-integrated WUE and carbon isotope discrimination in winter wheat. <i>Field Crops Research</i> , 2013, 144, 236-244.	2.3	64
24	China's food security is threatened by the unsustainable use of water resources in North and Northwest China. <i>Food and Energy Security</i> , 2014, 3, 7-18.	2.0	62
25	Assessing the contribution of weather and management to the annual yield variation of summer maize using APSIM in the North China Plain. <i>Field Crops Research</i> , 2016, 194, 94-102.	2.3	61
26	Assessing the performance of different irrigation systems on winter wheat under limited water supply. <i>Agricultural Water Management</i> , 2018, 196, 133-143.	2.4	61
27	Estimation of groundwater use by crop production simulated by DSSAT-wheat and DSSAT-maize models in the piedmont region of the North China Plain. <i>Hydrological Processes</i> , 2006, 20, 2787-2802.	1.1	49
28	Effects of straw and manure management on soil and crop performance in North China Plain. <i>Catena</i> , 2020, 187, 104359.	2.2	49
29	Modelling to increase the eco-efficiency of a wheat-maize double cropping system. <i>Agriculture, Ecosystems and Environment</i> , 2015, 210, 36-46.	2.5	48
30	Climate change is expected to increase yield and water use efficiency of wheat in the North China Plain. <i>Agricultural Water Management</i> , 2019, 222, 193-203.	2.4	47
31	Responses of yield and water use efficiency to irrigation amount decided by pan evaporation for winter wheat. <i>Agricultural Water Management</i> , 2013, 129, 173-180.	2.4	45
32	Subsoil compaction and irrigation regimes affect the root-shoot relation and grain yield of winter wheat. <i>Agricultural Water Management</i> , 2015, 154, 59-67.	2.4	43
33	Optimising crop production and nitrate leaching in China: Measured and simulated effects of straw incorporation and nitrogen fertilisation. <i>European Journal of Agronomy</i> , 2016, 80, 32-44.	1.9	43
34	Acclimation to higher VPD and temperature minimized negative effects on assimilation and grain yield of wheat. <i>Agricultural and Forest Meteorology</i> , 2018, 248, 119-129.	1.9	40
35	Assessment of the sustainability of different cropping systems under three irrigation strategies in the North China Plain under climate change. <i>Agricultural Systems</i> , 2020, 178, 102745.	3.2	39
36	Selecting traits to increase winter wheat yield under climate change in the North China Plain. <i>Field Crops Research</i> , 2017, 207, 30-41.	2.3	34

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37	Application of a new method to evaluate crop water stress index. <i>Irrigation Science</i> , 2005, 24, 49-54.	1.3	32
38	Effects of different irrigation regimes on soil compaction in a winter wheat–summer maize cropping system in the North China Plain. <i>Catena</i> , 2016, 137, 70-76.	2.2	32
39	Can mulching of maize straw complement deficit irrigation to improve water use efficiency and productivity of winter wheat in North China Plain?. <i>Agricultural Water Management</i> , 2019, 213, 1-11.	2.4	32
40	Incorporating root distribution factor to evaluate soil water status for winter wheat. <i>Agricultural Water Management</i> , 2015, 153, 32-41.	2.4	31
41	Incorporation of Soil Bulk Density in Simulating Root Distribution of Winter Wheat and Maize in Two Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 638-647.	1.2	29
42	Web-based irrigation decision support system with limited inputs for farmers. <i>Agricultural Water Management</i> , 2018, 210, 279-285.	2.4	29
43	Effects of irrigation frequency under limited irrigation on root water uptake, yield and water use efficiency of winter wheat. <i>Irrigation and Drainage</i> , 2009, 58, 393-405.	0.8	28
44	Improving Winter Wheat Performance by Foliar Spray of ABA and FA Under Water Deficit Conditions. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 83-96.	2.8	28
45	Nitrogen and carbon footprints of dairy farm systems in China and New Zealand, as influenced by productivity, feed sources and mitigations. <i>Agricultural Water Management</i> , 2019, 213, 155-163.	2.4	25
46	Impact of heat-wave at high and low VPD on photosynthetic components of wheat and their recovery. <i>Environmental and Experimental Botany</i> , 2018, 147, 138-146.	2.0	23
47	Crop rotation and N application rate affecting the performance of winter wheat under deficit irrigation. <i>Agricultural Water Management</i> , 2018, 210, 330-339.	2.4	20
48	Performance of a Double Cropping System under a Continuous Minimum Irrigation Strategy. <i>Agronomy Journal</i> , 2014, 106, 281-289.	0.9	17
49	Soil Water Regime Affecting Correlation of Carbon Isotope Discrimination with Yield and Water Use Efficiency of Winter Wheat. <i>Crop Science</i> , 2016, 56, 760-772.	0.8	17
50	Optimizing irrigation to reduce N leaching and maintain high crop productivity through the manipulation of soil water storage under summer monsoon climate. <i>Field Crops Research</i> , 2021, 265, 108110.	2.3	17
51	Spatial soil water and nutrient distribution affecting the water productivity of winter wheat. <i>Agricultural Water Management</i> , 2021, 256, 107114.	2.4	17
52	Improving water use efficiency in grain production of winter wheat and summer maize in the North China Plain: a review. <i>Frontiers of Agricultural Science and Engineering</i> , 2016, 3, 25.	0.9	17
53	Sensitivity of simulated crop yield and nitrate leaching of the wheat-maize cropping system in the North China Plain to model parameters. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 25-40.	1.9	16
54	Are crop deep roots always beneficial for combating drought: A review of root structure and function, regulation and phenotyping. <i>Agricultural Water Management</i> , 2022, 271, 107781.	2.4	16

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55	Water productivity improvement in summer maize – A case study in the North China Plain from 1980 to 2019. <i>Agricultural Water Management</i> , 2021, 247, 106728.	2.4	15
56	Effect of warming and nitrogen addition on evapotranspiration and water use efficiency in a wheat-soybean/fallow rotation from 2010 to 2014. <i>Climatic Change</i> , 2016, 139, 565-578.	1.7	13
57	Root efficiency and water use regulation relating to rooting depth of winter wheat. <i>Agricultural Water Management</i> , 2022, 269, 107710.	2.4	12
58	Components of feed affecting water footprint of feedlot dairy farm systems in Northern China. <i>Journal of Cleaner Production</i> , 2018, 183, 208-219.	4.6	11
59	Dynamic changes in leaf wax n-alkanes and $\delta^{13}C$ during leaf development in winter wheat under varied irrigation experiments. <i>Organic Geochemistry</i> , 2020, 146, 104054.	0.9	11
60	Electrical capacitance estimates crop root traits best under dry conditions – a case study in cotton (<i>Gossypium hirsutum</i> L.). <i>Plant and Soil</i> , 2021, 467, 549-567.	1.8	9
61	Assessing the Impact of Air Pollution on Grain Yield of Winter Wheat - A Case Study in the North China Plain. <i>PLoS ONE</i> , 2016, 11, e0162655.	1.1	9
62	Modelling agro-environmental variables under data availability limitations and scenario managements in an alluvial region of the North China Plain. <i>Environmental Modelling and Software</i> , 2019, 111, 94-107.	1.9	8
63	Increasing the Planting Uniformity Improves the Yield of Summer Maize. <i>Agronomy Journal</i> , 2017, 109, 1463-1475.	0.9	7
64	Performance of New Released Winter Wheat Cultivars in Yield: A Case Study in the North China Plain. <i>Agronomy Journal</i> , 2016, 108, 1346-1355.	0.9	5
65	OPTIMIZED TIMING OF USING CANOPY TEMPERATURE TO SELECT HIGH-YIELDING CULTIVARS OF WINTER WHEAT UNDER DIFFERENT WATER REGIMES. <i>Experimental Agriculture</i> , 2018, 54, 257-272.	0.4	4
66	Diurnal and Seasonal Mapping of Water Deficit Index and Evapotranspiration by an Unmanned Aerial System: A Case Study for Winter Wheat in Denmark. <i>Remote Sensing</i> , 2021, 13, 2998.	1.8	4
67	Intermittent Deep Tillage on Improving Soil Physical Properties and Crop Performance in an Intensive Cropping System. <i>Agronomy</i> , 2022, 12, 688.	1.3	3
68	Performance of double cropping silage maize with plastic mulch in the North China Plain. <i>Agronomy Journal</i> , 2020, 112, 4133-4146.	0.9	1
69	Open Field Simulating Nocturnal Warming on Summer Maize Performance in the North China Plain. <i>Agronomy</i> , 2021, 11, 992.	1.3	1
70	Root matters: Lying seeds flat with the crease down improves grain yield in winter wheat under drought stress. <i>Plant and Soil</i> , 0, , 1.	1.8	1
71	Root Growth and Distribution in Relation to Different Water Levels. <i>Advances in Agricultural Systems Modeling</i> , 0, , 45-65.	0.3	0