

Xining Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

3,259
citations

109321

35
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182427

51
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102
all docs

102
docs citations

102
times ranked

2380
citing authors

#	ARTICLE	IF	CITATIONS
1	A new solution of high-efficiency rainwater irrigation mode for water management in apple plantation: Design and application. <i>Agricultural Water Management</i> , 2022, 259, 107243.	5.6	10
2	Quantifying the importance of deep root water uptake for apple treesâ€™ hydrological and physiological performance in drylands. <i>Journal of Hydrology</i> , 2022, 606, 127471.	5.4	20
3	The efficiency of organic C sequestration in deep soils is enhanced by drier climates. <i>Geoderma</i> , 2022, 415, 115774.	5.1	6
4	Redesign of dryland apple orchards by intercropping the bioenergy crop canola (<i>Brassica napus</i>) Tj ETQq0 0,0rgBT /Oylock 10	5.6	6
5	Impacts of Interspecific Interactions on Crop Growth and Yield in Wheat (<i>Triticum aestivum</i> L.)/Maize (<i>Zea mays</i> L.) Strip Intercropping under Different Water and Nitrogen Levels. <i>Agronomy</i> , 2022, 12, 951.	3.0	4
6	Ecohydrological advantage of young apple tree-based agroforestry and its response to extreme droughts on the semiarid Loess Plateau. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108969.	4.8	9
7	Ridge cropping and furrow irrigation pattern improved spring maize (<i>Zea mays</i> L.) yield and water productivity in Hetao irrigation area of northwestern China. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 6889-6898.	3.5	2
8	Vertical variation in shallow and deep soil moisture in an apple orchard in the loess hillyâ€“gully area of north China. <i>Soil Use and Management</i> , 2021, 37, 595-606.	4.9	4
9	Impact of land management practices on water use strategy for a dryland tree plantation and subsequent responses to drought. <i>Land Degradation and Development</i> , 2021, 32, 439-452.	3.9	12
10	Measurements and modeling of hydrological responses to summer pruning in dryland apple orchards. <i>Journal of Hydrology</i> , 2021, 594, 125651.	5.4	12
11	Mulching Measures Improve Soil Moisture in Rain-Fed Jujube (<i>Ziziphus jujuba</i> Mill.) Orchards in the Loess Hilly Region of China. <i>Sustainability</i> , 2021, 13, 610.	3.2	8
12	The economicâ€“environmental trade-off of growing apple trees in the drylands of China: A conceptual framework for sustainable intensification. <i>Journal of Cleaner Production</i> , 2021, 296, 126497.	9.3	28
13	Subsurface irrigation with ceramic emitters: An effective method to improve apple yield and irrigation water use efficiency in the semiarid Loess Plateau. <i>Agriculture, Ecosystems and Environment</i> , 2021, 313, 107404.	5.3	26
14	Comparison of the rootâ€“soil water relationship of two typical revegetation species along a precipitation gradient on the Loess Plateau. <i>Environmental Research Letters</i> , 2021, 16, 064054.	5.2	5
15	Impacts of land use conversion on the response of soil respiration to precipitation in drylands: A case study with four-yearlong observations. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108426.	4.8	5
16	Evaluating the longâ€“term ecohydrological suitability of restoration efforts in a typical watershed of the Loess Plateau. <i>Hydrological Processes</i> , 2021, 35, e14362.	2.6	3
17	Water-use patterns of Chinese wolfberry (<i>Lycium barbarum</i> L.) on the Tibetan Plateau. <i>Agricultural Water Management</i> , 2021, 255, 107010.	5.6	11
18	Dynamics of interspecific water relationship in vertical and horizontal dimensions under a dryland apple- <i>Brassica</i> intercropping system: Quantifying by experiments and the 3D Hi-sAFe model. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108620.	4.8	5

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19	Spatial and Temporal Characteristics of Precipitation and Potential Influencing Factors in the Loess Plateau before and after the Implementation of the Grain for Green Project. <i>Water (Switzerland)</i> , 2021, 13, 234.	2.7	4
20	Water Deficit Modulates the CO ₂ Fertilization Effect on Plant Gas Exchange and Leaf-Level Water Use Efficiency: A Meta-Analysis. <i>Frontiers in Plant Science</i> , 2021, 12, 775477.	3.6	6
21	Yield, yield attributes and photosynthetic physiological characteristics of dryland wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 5.1 33	5.1	33
22	Target areas for harmonizing the Grain for Green Programme in China's Loess Plateau. <i>Land Degradation and Development</i> , 2020, 31, 325-333.	3.9	37
23	Age- and climate- related water use patterns of apple trees on China's Loess Plateau. <i>Journal of Hydrology</i> , 2020, 582, 124462.	5.4	41
24	New problems of food security in Northwest China: A sustainability perspective. <i>Land Degradation and Development</i> , 2020, 31, 975-989.	3.9	28
25	Effect of the fodder species canola (<i>Brassica napus</i> L.) and daylily (<i>Hemerocallis fulva</i> L.) on soil physical properties and soil water content in a rainfed orchard on the semiarid Loess Plateau, China. <i>Plant and Soil</i> , 2020, 453, 209-228.	3.7	19
26	The spatial and temporal evolution of the actual evapotranspiration based on the remote sensing method in the Loess Plateau. <i>Science of the Total Environment</i> , 2020, 708, 135111.	8.0	33
27	Rainwater collection and infiltration (RWCI) systems promote deep soil water and organic carbon restoration in water-limited sloping orchards. <i>Agricultural Water Management</i> , 2020, 242, 106400.	5.6	19
28	Recovery growth and water use of intercropped maize following wheat harvest in wheat/maize relay strip intercropping. <i>Field Crops Research</i> , 2020, 256, 107924.	5.1	21
29	Coupling evapotranspiration partitioning with water migration to identify the water consumption characteristics of wheat and maize in an intercropping system. <i>Agricultural and Forest Meteorology</i> , 2020, 290, 108034.	4.8	34
30	Seasonal effects of intercropping on tree water use strategies in semiarid plantations: Evidence from natural and labelling stable isotopes. <i>Plant and Soil</i> , 2020, 453, 229-243.	3.7	18
31	Drought responses of profile plant-available water and fine-root distributions in apple (<i>Malus pumila</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 137739. 8.0 41	8.0	41
32	Impact of conservation practices on soil hydrothermal properties and crop water use efficiency in a dry agricultural region of the tibetan plateau. <i>Soil and Tillage Research</i> , 2020, 200, 104619.	5.6	20
33	Sloping Land Use Affects Soil Moisture and Temperature in the Loess Hilly Region of China. <i>Agronomy</i> , 2020, 10, 774.	3.0	2
34	Attribution analysis of climatic and multiple anthropogenic causes of runoff change in the Loess Plateau—A case study of the Jing River Basin. <i>Land Degradation and Development</i> , 2020, 31, 1622-1640.	3.9	21
35	Soil properties of apple orchards on China's Loess Plateau. <i>Science of the Total Environment</i> , 2020, 723, 138041.	8.0	42
36	The tradeoff between soil erosion protection and water consumption in revegetation: Evaluation of new indicators and influencing factors. <i>Geoderma</i> , 2019, 347, 32-39.	5.1	18

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37	Land Use Affects Soil Moisture Response to Dramatic Short-term Rainfall Events in a Hillslope Catchment of the Chinese Loess Plateau. <i>Agronomy Journal</i> , 2019, 111, 1506-1515.	1.8	11
38	Impacts of future climate and agricultural land-use changes on regional agricultural water use in a large irrigation district of northwest China. <i>Land Degradation and Development</i> , 2019, 30, 1158-1171.	3.9	10
39	Monthly blue water footprint caps in a river basin to achieve sustainable water consumption: The role of reservoirs. <i>Science of the Total Environment</i> , 2019, 650, 891-899.	8.0	26
40	Testing of observation operators designed to estimate profile soil moisture from surface measurements. <i>Hydrological Processes</i> , 2019, 33, 575-584.	2.6	15
41	Effects of varied water regimes on root development and its relations with soil water under wheat/maize intercropping system. <i>Plant and Soil</i> , 2019, 439, 113-130.	3.7	36
42	Effects of water collection and mulching combinations on water infiltration and consumption in a semiarid rainfed orchard. <i>Journal of Hydrology</i> , 2018, 558, 432-441.	5.4	49
43	Identifying a suitable revegetation technique for soil restoration on water-limited and degraded land: Considering both deep soil moisture deficit and soil organic carbon sequestration. <i>Geoderma</i> , 2018, 319, 61-69.	5.1	106
44	Study on Water Suitability of Apple Plantations in the Loess Plateau under Climate Change. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2504.	2.6	7
45	Estimation of Actual Evapotranspiration in a Semiarid Region Based on GRACE Gravity Satellite Data—A Case Study in Loess Plateau. <i>Remote Sensing</i> , 2018, 10, 2032.	4.0	5
46	Revegetation modifies patterns of temporal soil respiration responses to extreme-drying-and-rewetting in a semiarid ecosystem. <i>Plant and Soil</i> , 2018, 433, 227-241.	3.7	9
47	Vegetative filter strips—Effect of vegetation type and shape of strip on runoff and sediment trapping. <i>Land Degradation and Development</i> , 2018, 29, 3917-3927.	3.9	7
48	Exotic shrub species (<i>Caragana korshinskii</i>) is more resistant to extreme natural drought than native species (<i>Artemisia gmelinii</i>) in a semiarid revegetated ecosystem. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 207-216.	4.8	57
49	Application Rate Influences the Soil and Water Conservation Effectiveness of Mulching with Chipped Branches. <i>Soil Science Society of America Journal</i> , 2018, 82, 447-454.	2.2	12
50	Seasonal water use patterns of rainfed jujube trees in stands of different ages under semiarid Plantations in China. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 392-401.	5.3	49
51	Extreme natural drought enhances interspecific facilitation in semiarid agroforestry systems. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 444-453.	5.3	52
52	Soil water and root distribution of apple tree (<i>Malus pumila</i> Mill) stands in relation to stand age and rainwater collection and infiltration system (RWCI) in a hilly region of the Loess Plateau, China. <i>Catena</i> , 2018, 170, 324-334.	5.0	57
53	Soil Water Content and Root Patterns in a Rainfed Jujube Plantation across Stand Ages on the Loess Plateau of China. <i>Land Degradation and Development</i> , 2017, 28, 207-216.	3.9	50
54	Variations of Soil Organic Carbon Following Land Use Change on Deep Loess Hillslopes in China. <i>Land Degradation and Development</i> , 2017, 28, 1902-1912.	3.9	58

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55	Effect of plant cover type on soil water budget and tree photosynthesis in jujube orchards. <i>Agricultural Water Management</i> , 2017, 184, 135-144.	5.6	15
56	Spatial distribution of soil moisture and fine roots in rain-fed apple orchards employing a Rainwater Collection and Infiltration (RWCI) system on the Loess Plateau of China. <i>Agricultural Water Management</i> , 2017, 184, 170-177.	5.6	54
57	Dynamics of runoff and sediment trapping performance of vegetative filter strips: Run-on experiments and modeling. <i>Science of the Total Environment</i> , 2017, 593-594, 54-64.	8.0	31
58	Temporal and spatial evolution of the standardized precipitation evapotranspiration index (SPEI) in the Loess Plateau under climate change from 2001 to 2050. <i>Science of the Total Environment</i> , 2017, 595, 191-200.	8.0	142
59	Actual ET modelling based on the Budyko framework and the sustainability of vegetation water use in the loess plateau. <i>Science of the Total Environment</i> , 2017, 579, 1550-1559.	8.0	57
60	Border row effects on light interception in wheat/maize strip intercropping systems. <i>Field Crops Research</i> , 2017, 214, 1-13.	5.1	57
61	Soil water effects of agroforestry in rainfed jujube (<i>Ziziphus jujube</i> Mill.) orchards on loess hillslopes in Northwest China. <i>Agriculture, Ecosystems and Environment</i> , 2017, 247, 343-351.	5.3	52
62	Simulation Study of the Impact of Permanent Groundcover on Soil and Water Changes in Jujube Orchards on Sloping Ground. <i>Land Degradation and Development</i> , 2016, 27, 946-954.	3.9	25
63	Spatial and temporal trends in climatic variables in arid areas of northwest China. <i>International Journal of Climatology</i> , 2016, 36, 4118-4129.	3.5	12
64	Simulated Study on Effects of Ground Managements on Soil Water and Available Nutrients in Jujube Orchards. <i>Land Degradation and Development</i> , 2016, 27, 35-42.	3.9	52
65	Effects of large gullies on catchment-scale soil moisture spatial behaviors: A case study on the Loess Plateau of China. <i>Geoderma</i> , 2016, 261, 1-10.	5.1	62
66	Development and evaluation of a physically based multiscalar drought index: The Standardized Moisture Anomaly Index. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,575.	3.3	59
67	Catchment-scale variability of absolute versus temporal anomaly soil moisture: Time-invariant part not always plays the leading role. <i>Journal of Hydrology</i> , 2015, 529, 1669-1678.	5.4	23
68	Radiation interception and utilization by wheat/maize strip intercropping systems. <i>Agricultural and Forest Meteorology</i> , 2015, 204, 58-66.	4.8	71
69	An evaluation of the water utilization and grain production of irrigated and rain-fed croplands in China. <i>Science of the Total Environment</i> , 2015, 529, 10-20.	8.0	73
70	Evaluation of crop production, trade, and consumption from the perspective of water resources: A case study of the Hetao irrigation district, China, for 1960â€“2010. <i>Science of the Total Environment</i> , 2015, 505, 1174-1181.	8.0	39
71	Water productivity evaluation for grain crops in irrigated regions of China. <i>Ecological Indicators</i> , 2015, 55, 107-117.	6.3	28
72	Water use and crop coefficient of the wheatâ€“maize strip intercropping system for an arid region in northwestern China. <i>Agricultural Water Management</i> , 2015, 161, 77-85.	5.6	26

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73	Effects of water limitation on yield advantage and water use in wheat (<i>Triticum aestivum</i> L.)/maize (<i>Zea mays</i> L.) intercropping system in the Loess Plateau of China. <i>Journal of Agricultural Science</i> , 2014, 154, 1-10.	10.7843	1451
74	Maize-Soybean Intercropping Interactions Above and Below Ground. <i>Crop Science</i> , 2014, 54, 914-922.	1.8	61
75	Assessing the spatial and temporal variation of the rainwater harvesting potential (1971-2010) on the Chinese Loess Plateau using the VIC model. <i>Hydrological Processes</i> , 2014, 28, 534-544.	2.6	39
76	Comparison of classification methods for the divisions of wet/dry climate regions in Northwest China. <i>International Journal of Climatology</i> , 2014, 34, 2163-2174.	3.5	13
77	Spatiotemporal analysis of climate variability (1971-2010) in spring and summer on the Loess Plateau, China. <i>Hydrological Processes</i> , 2014, 28, 1689-1702.	2.6	32
78	GANN models for reference evapotranspiration estimation developed with weather data from different climatic regions. <i>Theoretical and Applied Climatology</i> , 2014, 116, 481-489.	2.8	21
79	Effects of permanent ground cover on soil moisture in jujube orchards under sloping ground: A simulation study. <i>Agricultural Water Management</i> , 2014, 138, 68-77.	5.6	27
80	Statistical analyses and controls of root-zone soil moisture in a large gully of the Loess Plateau. <i>Environmental Earth Sciences</i> , 2014, 71, 4801-4809.	2.7	16
81	Water Footprint of Grain Product in Irrigated Farmland of China. <i>Water Resources Management</i> , 2014, 28, 2213-2227.	3.9	39
82	Effects of vegetation cover of natural grassland on runoff and sediment yield in loess hilly region of China. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 497-503.	3.5	26
83	Impacts of changing cropping pattern on virtual water flows related to crops transfer: a case study for the Hetao irrigation district, China. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 2992-3000.	3.5	26
84	Growth, yield, and nitrogen use in the wheat/maize intercropping system in an arid region of northwestern China. <i>Field Crops Research</i> , 2014, 167, 19-30.	5.1	64
85	Changes of soil hydraulic properties under early-stage natural vegetation recovering on the Loess Plateau of China. <i>Catena</i> , 2014, 113, 386-391.	5.0	56
86	Meteorological drought over the Chinese Loess Plateau: 1971-2010. <i>Natural Hazards</i> , 2013, 67, 951-961.	3.4	21
87	A drought hazard assessment index based on the VIC-PDSI model and its application on the Loess Plateau, China. <i>Theoretical and Applied Climatology</i> , 2013, 114, 125-138.	2.8	25
88	Estimation of spatial soil moisture averages in a large gully of the Loess Plateau of China through statistical and modeling solutions. <i>Journal of Hydrology</i> , 2013, 486, 466-478.	5.4	52
89	Changes in vegetation condition in areas with different gradients (1980-2010) on the Loess Plateau, China. <i>Environmental Earth Sciences</i> , 2013, 68, 2427-2438.	2.7	105
90	The impacts of interannual climate variability and agricultural inputs on water footprint of crop production in an irrigation district of China. <i>Science of the Total Environment</i> , 2013, 444, 498-507.	8.0	136

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91	Runoff and sediment yield under simulated rainfall on hillslopes in the Loess Plateau of China. <i>Soil Research</i> , 2013, 51, 50.	1.1	39
92	Estimating the spatial means and variability of root-zone soil moisture in gullies using measurements from nearby uplands. <i>Journal of Hydrology</i> , 2013, 476, 28-41.	5.4	43
93	Effects of atmospheric ammonia enrichment and nitrogen status on the growth of maize. <i>Soil Science and Plant Nutrition</i> , 2012, 58, 32-40.	1.9	4
94	Water-saving Crop Planning Using Multiple Objective Chaos Particle Swarm Optimization for Sustainable Agricultural and Soil Resources Development. <i>Clean - Soil, Air, Water</i> , 2012, 40, 1376-1384.	1.1	19
95	Projection Pursuit Evaluation Model: Optimizing Scheme of Crop Planning for Agricultural Sustainable Development and Soil Resources Utilization. <i>Clean - Soil, Air, Water</i> , 2012, 40, 592-598.	1.1	2
96	Estimating spatial mean soil water contents of sloping jujube orchards using temporal stability. <i>Agricultural Water Management</i> , 2011, 102, 66-73.	5.6	73
97	Soil moisture variability along transects over a well-developed gully in the Loess Plateau, China. <i>Catena</i> , 2011, 87, 357-367.	5.0	107
98	Impact of climate change and irrigation technology advancement on agricultural water use in China. <i>Climatic Change</i> , 2010, 100, 797-805.	3.6	53
99	Effects of Elevated Ammonia Concentration and Nitrogen Status on the Growth and Yield of Winter Wheat. <i>Agronomy Journal</i> , 2010, 102, 1194-1200.	1.8	2