

Jianchao Liu

List of Publications by Year in descending order

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papers

1,117
citations

430874

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943
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in Spatiotemporal Variability of Potential and Reference Crop Evapotranspirations. <i>Water</i> (Switzerland), 2022, 14, 988.	2.7	0
2	Response of wheat and maize growth-yields to meteorological and agricultural droughts based on standardized precipitation evapotranspiration indexes and soil moisture deficit indexes. <i>Agricultural Water Management</i> , 2022, 266, 107566.	5.6	19
3	Future climate change impacts on mulched maize production in an arid irrigation area. <i>Agricultural Water Management</i> , 2022, 266, 107550.	5.6	3
4	Interaction between soil water and fertilizer utilization on maize under plastic mulching in an arid irrigation region of China. <i>Agricultural Water Management</i> , 2022, 265, 107494.	5.6	7
5	Plastic film mulching affects field water balance components, grain yield, and water productivity of rainfed maize in the Loess Plateau, China: A synthetic analysis of multi-site observations. <i>Agricultural Water Management</i> , 2022, 266, 107570.	5.6	7
6	Better Drought Index between SPEI and SMDI and the Key Parameters in Denoting Drought Impacts on Spring Wheat Yields in Qinghai, China. <i>Agronomy</i> , 2022, 12, 1552.	3.0	5
7	Quantifying the compensatory effect of increased soil temperature under plastic film mulching on crop growing degree days in a wheat-maize rotation system. <i>Field Crops Research</i> , 2021, 260, 107993.	5.1	16
8	Performance and relationship of four different agricultural drought indices for drought monitoring in China's mainland using remote sensing data. <i>Science of the Total Environment</i> , 2021, 759, 143530.	8.0	76
9	Reduced root water uptake of summer maize grown in water-repellent soils simulated by HYDRUS-1D. <i>Soil and Tillage Research</i> , 2021, 209, 104925.	5.6	16
10	Projection of the climate change effects on soil water dynamics of summer maize grown in water repellent soils using APSIM and HYDRUS-1D models. <i>Computers and Electronics in Agriculture</i> , 2021, 185, 106142.	7.7	18
11	After-effects of straw and straw-derived biochar application on crop growth, yield, and soil properties in wheat (<i>Triticum aestivum</i> L.)-maize (<i>Zea mays</i> L.) rotations: A four-year field experiment. <i>Science of the Total Environment</i> , 2021, 780, 146560.	8.0	42
12	Quantifying the interaction of water and radiation use efficiency under plastic film mulch in winter wheat. <i>Science of the Total Environment</i> , 2021, 794, 148704.	8.0	22
13	Comparisons among four different upscaling strategies for cultivar genetic parameters in rainfed spring wheat phenology simulations with the DSSAT-CERES-Wheat model. <i>Agricultural Water Management</i> , 2021, 258, 107181.	5.6	9
14	Permanent wilting point plays an important role in simulating winter wheat growth under water deficit conditions. <i>Agricultural Water Management</i> , 2020, 229, 105954.	5.6	24
15	Projections of drought characteristics in China based on a standardized precipitation and evapotranspiration index and multiple GCMs. <i>Science of the Total Environment</i> , 2020, 704, 135245.	8.0	126
16	National-Scale Variation and Propagation Characteristics of Meteorological, Agricultural, and Hydrological Droughts in China. <i>Remote Sensing</i> , 2020, 12, 3407.	4.0	26
17	Simulating the Influences of Soil Water Stress on Leaf Expansion and Senescence of Winter Wheat. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108061.	4.8	20
18	Spatial-temporal distribution of winter wheat (<i>Triticum aestivum</i> L.) roots and water use efficiency under ridge-furrow dual mulching. <i>Agricultural Water Management</i> , 2020, 240, 106301.	5.6	26

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19	Estimating crop genetic parameters for DSSAT with modified PEST software. <i>European Journal of Agronomy</i> , 2020, 115, 126017.	4.1	20
20	Dynamic within-season irrigation scheduling for maize production in Northwest China: A Method Based on Weather Data Fusion and yield prediction by DSSAT. <i>Agricultural and Forest Meteorology</i> , 2020, 285-286, 107928.	4.8	17
21	Spatiotemporal variability of standardized precipitation evapotranspiration index in mainland China over 1961–2016. <i>International Journal of Climatology</i> , 2020, 40, 4781-4799.	3.5	21
22	Effects of continuous plastic mulching on crop growth in a winter wheat-summer maize rotation system on the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 385-397.	4.8	43
23	Soil water repellency decreases summer maize growth. <i>Agricultural and Forest Meteorology</i> , 2019, 266-267, 1-11.	4.8	20
24	Future projections of extreme temperature events in different sub-regions of China. <i>Atmospheric Research</i> , 2019, 217, 150-164.	4.1	58
25	Modeling impacts of mulching and climate change on crop production and N ₂ O emission in the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 86-97.	4.8	46
26	Performance of HYDRUS-1D for simulating water movement in water-repellent soils. <i>Canadian Journal of Soil Science</i> , 2018, 98, 407-420.	1.2	18
27	Soil water utilization with plastic mulching for a winter wheat-summer maize rotation system on the Loess Plateau of China. <i>Agricultural Water Management</i> , 2018, 201, 246-257.	5.6	52
28	Drought evolution, severity and trends in mainland China over 1961–2013. <i>Science of the Total Environment</i> , 2018, 616-617, 73-89.	8.0	176
29	Characteristics of Water Infiltration in Layered Water-Repellent Soils. <i>Pedosphere</i> , 2018, 28, 775-792.	4.0	21
30	Bias correction of precipitation data and its effects on aridity and drought assessment in China over 1961–2015. <i>Science of the Total Environment</i> , 2018, 639, 1015-1027.	8.0	42
31	The best alternative for estimating reference crop evapotranspiration in different sub-regions of mainland China. <i>Scientific Reports</i> , 2017, 7, 5458.	3.3	50
32	Impact assessment of climate change and later-maturing cultivars on winter wheat growth and soil water deficit on the Loess Plateau of China. <i>Climatic Change</i> , 2016, 138, 157-171.	3.6	35
33	Prediction of annual reference evapotranspiration using climatic data. <i>Agricultural Water Management</i> , 2010, 97, 300-308.	5.6	35