De Li Liu

List of Publications by Year
in descending order

136	5,491	42	66
papers	citations	h-index	g-index
		66315	102432

138	138	138	4849
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of straw and plastic film mulching on greenhouse gas emissions in Loess Plateau, China: A field study of 2 consecutive wheat-maize rotation cycles. Science of the Total Environment, 2017, 579, 814-824.	3.9	177
2	Estimation of solar radiation in Australia from rainfall and temperature observations. Agricultural and Forest Meteorology, 2001, 106, 41-59.	1.9	166
3	Statistical downscaling of daily climate variables for climate change impact assessment over New South Wales, Australia. Climatic Change, 2012, 115, 629-666.	1.7	161
4	Effects of straw mulching and plastic film mulching on improving soil organic carbon and nitrogen fractions, crop yield and water use efficiency in the Loess Plateau, China. Agricultural Water Management, 2018, 201, 133-143.	2.4	154
5	Similarity and difference of potential evapotranspiration and reference crop evapotranspiration â€" a review. Agricultural Water Management, 2020, 232, 106043.	2.4	147
6	Machine learning-based integration of remotely-sensed drought factors can improve the estimation of agricultural drought in South-Eastern Australia. Agricultural Systems, 2019, 173, 303-316.	3.2	141
7	Climate change impacts on phenology and yields of five broadacre crops at four climatologically distinct locations in Australia. Agricultural Systems, 2015, 132, 133-144.	3.2	139
8	High resolution mapping of soil organic carbon stocks using remote sensing variables in the semi-arid rangelands of eastern Australia. Science of the Total Environment, 2018, 630, 367-378.	3.9	139
9	Adapting agriculture to climate change: a review. Theoretical and Applied Climatology, 2013, 113, 225-245.	1.3	134
10	Projections of drought characteristics in China based on a standardized precipitation and evapotranspiration index and multiple GCMs. Science of the Total Environment, 2020, 704, 135245.	3.9	126
11	Incorporating machine learning with biophysical model can improve the evaluation of climate extremes impacts on wheat yield in south-eastern Australia. Agricultural and Forest Meteorology, 2019, 275, 100-113.	1.9	125
12	Estimating soil organic carbon stocks using different modelling techniques in the semi-arid rangelands of eastern Australia. Ecological Indicators, 2018, 88, 425-438.	2.6	114
13	Climate change impact on yields and water use of wheat and maize in the North China Plain under future climate change scenarios. Agricultural Water Management, 2020, 238, 106238.	2.4	114
14	Projecting heat-related excess mortality under climate change scenarios in China. Nature Communications, 2021, 12, 1039.	5.8	102
15	Using multiâ€model ensembles of CMIP5 global climate models to reproduce observed monthly rainfall and temperature with machine learning methods in Australia. International Journal of Climatology, 2018, 38, 4891-4902.	1.5	96
16	Using an improved SWAT model to simulate hydrological responses to land use change: A case study of a catchment in tropical Australia. Journal of Hydrology, 2020, 585, 124822.	2.3	96
17	Spatial Interpolation of Daily Rainfall Data for Local Climate Impact Assessment over Greater Sydney Region. Advances in Meteorology, 2015, 2015, 1-12.	0.6	89
18	Soil carbon stocks under different pastures and pasture management in the higher rainfall areas of south-eastern Australia. Soil Research, 2010, 48, 7.	0.6	80

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19	Impact of climate change on wheat flowering time in eastern Australia. Agricultural and Forest Meteorology, 2015, 209-210, 11-21.	1.9	78
20	Autotoxicity of wheat (Triticum aestivum L.) as determined by laboratory bioassays. Plant and Soil, 2007, 296, 85-93.	1.8	76
21	Performance and relationship of four different agricultural drought indices for drought monitoring in China's mainland using remote sensing data. Science of the Total Environment, 2021, 759, 143530.	3.9	76
22	Dynamic wheat yield forecasts are improved by a hybrid approach using a biophysical model and machine learning technique. Agricultural and Forest Meteorology, 2020, 285-286, 107922.	1.9	70
23	Projecting future temperature-related mortality in three largest Australian cities. Environmental Pollution, 2016, 208, 66-73.	3.7	68
24	Crop residue incorporation can mitigate negative climate change impacts on crop yield and improve water use efficiency in a semiarid environment. European Journal of Agronomy, 2017, 85, 51-68.	1.9	68
25	Impacts of rainfall extremes on wheat yield in semi-arid cropping systems in eastern Australia. Climatic Change, 2018, 147, 555-569.	1.7	63
26	Impact of future climate change on wheat production in relation to plant-available water capacity in a semiaridenvironment. Theoretical and Applied Climatology, 2014, 115, 391-410.	1.3	62
27	Prediction of cotton yield and water demand under climate change and future adaptation measures. Agricultural Water Management, 2014, 144, 42-53.	2.4	60
28	Future projections of extreme temperature events in different sub-regions of China. Atmospheric Research, 2019, 217, 150-164.	1.8	58
29	Impact of Future Climate Change on Wheat Production: A Simulated Case for Chinaâ€™s Wheat System. Sustainability, 2018, 10, 1277.	1.6	56
30	Multi-model ensemble projections of future extreme temperature change using a statistical downscaling method in south eastern Australia. Climatic Change, 2016, 138, 85-98.	1.7	55
31	Soil water utilization with plastic mulching for a winter wheat-summer maize rotation system on the Loess Plateau of China. Agricultural Water Management, 2018, 201, 246-257.	2.4	52
32	Impacts of future climate change on water resource availability of eastern Australia: A case study of the Manning River basin. Journal of Hydrology, 2019, 573, 49-59.	2.3	52
33	Simulation of soil organic carbon under different tillage and stubble management practices using the Rothamsted carbon model. Soil and Tillage Research, 2009, 104, 65-73.	2.6	51
34	Multi-model ensemble projections of future extreme heat stress on rice across southern China. Theoretical and Applied Climatology, 2018, 133, 1107-1118.	1.3	51
35	Climate-associated rice yield change in the Northeast China Plain: A simulation analysis based on CMIP5 multi-model ensemble projection. Science of the Total Environment, 2019, 666, 126-138.	3.9	51
36	Sources of uncertainty for wheat yield projections under future climate are site-specific. Nature Food, 2020, 1, 720-728.	6.2	51

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37	Modelling the impacts of climate change on wheat yield and field water balance over the Murrayâ€“Darling Basin in Australia. Theoretical and Applied Climatology, 2011, 104, 285-300.	1.3	50
38	The best alternative for estimating reference crop evapotranspiration in different sub-regions of mainland China. Scientific Reports, 2017, 7, 5458.	1.6	50
39	Designing high-yielding maize ideotypes to adapt changing climate in the North China Plain. Agricultural Systems, 2020, 181, 102805.	3.2	50
40	Black plastic film combined with straw mulching delays senescence and increases summer maize yield in northwest China. Agricultural Water Management, 2020, 231, 106031.	2.4	48
41	Modeling impacts of mulching and climate change on crop production and N2O emission in the Loess Plateau of China. Agricultural and Forest Meteorology, 2019, 268, 86-97.	1.9	46
42	Mathematical modelling of allelopathy: II. The dynamics of allelochemicals from living plants in the environment. Ecological Modelling, 2003, 161, 53-66.	1.2	45
43	Assessment of climate change impacts on soil organic carbon and crop yield based on long-term fertilization applications in Loess Plateau, China. Plant and Soil, 2015, 390, 401-417.	1.8	45
44	Future climate change projects positive impacts on sugarcane productivity in southern China. European Journal of Agronomy, 2018, 96, 108-119.	1.9	45
45	Crop traits enabling yield gains under more frequent extreme climatic events. Science of the Total Environment, 2022, 808, 152170.	3.9	45
46	Water use efficiency and crop water balance of rainfed wheat in a semi-arid environment: sensitivity of future changes to projected climate changes and soil type. Theoretical and Applied Climatology, 2016, 123, 565-579.	1.3	44
47	Modelling soil organic carbon 1. Performance of APSIM crop and pasture modules against long-term experimental data. Geoderma, 2016, 264, 227-237.	2.3	44
48	A new technique for determining the thermal parameters of phenological development in sugarcane, including suboptimum and supra-optimum temperature regimes. Agricultural and Forest Meteorology, 1998, 90, 119-139.	1.9	43
49	Designing wheat ideotypes to cope with future changing climate in South-Eastern Australia. Agricultural Systems, 2019, 170, 9-18.	3.2	43
50	Multiâ€model ensemble of <scp>CMIP6</scp> projections for future extreme climate stress on wheat in the North China plain. International Journal of Climatology, 2021, 41, E171.	1.5	43
51	Modeling the impact of crop rotation with legume on nitrous oxide emissions from rain-fed agricultural systems in Australia under alternative future climate scenarios. Science of the Total Environment, 2018, 630, 1544-1552.	3.9	42
52	Managing wheat stubble as an effective approach to sequester soil carbon in a semi-arid environment: Spatial modelling. Geoderma, 2014, 214-215, 50-61.	2.3	41
53	Modelling and mapping soil organic carbon stocks under future climate change in south-eastern Australia. Geoderma, 2022, 405, 115442.	2.3	40
54	Modelling wheat yield change under CO2 increase, heat and water stress in relation to plant available water capacity in eastern Australia. European Journal of Agronomy, 2017, 90, 152-161.	1.9	39

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55	Future climate change impacts on grain yield and groundwater use under different cropping systems in the North China Plain. Agricultural Water Management, 2021, 246, 106685.	2.4	39
56	Modelling future climate change impacts on winter wheat yield and water use: A case study in Guanzhong Plain, northwestern China. European Journal of Agronomy, 2020, 119, 126113.	1.9	38
57	Climate change shifts forward flowering and reduces crop waterlogging stress. Environmental Research Letters, 2021, 16, 094017.	2.2	38
58	Modeling the Present and Future Incidence of Pediatric Hand, Foot, and Mouth Disease Associated with Ambient Temperature in Mainland China. Environmental Health Perspectives, 2018, 126, 047010.	2.8	37
59	Optimizing sowing window and cultivar choice can boost Chinaâ€™s maize yield under 1.5 Â°C and 2 Â°C global warming. Environmental Research Letters, 2020, 15, 024015.	2.2	37
60	Effects of different climate downscaling methods on the assessment of climate change impacts on wheat cropping systems. Climatic Change, 2017, 144, 687-701.	1.7	36
61	Future climate change likely to reduce the Australian plague locust (Chortoicetes terminifera) seasonal outbreaks. Science of the Total Environment, 2019, 668, 947-957.	3.9	36
62	Impact assessment of climate change and later-maturing cultivars on winter wheat growth and soil water deficit on the Loess Plateau of China. Climatic Change, 2016, 138, 157-171.	1.7	35
63	When does plastic-film mulching yield more for dryland maize in the Loess Plateau of China? A meta-analysis. Agricultural Water Management, 2020, 240, 106290.	2.4	34
64	Projected changes in drought across the wheat belt of southeastern Australia using a downscaled climate ensemble. International Journal of Climatology, 2019, 39, 1041-1053.	1.5	33
65	Spatio-temporal distribution of sugarcane potential yields and yield gaps in Southern China. European Journal of Agronomy, 2018, 92, 72-83.	1.9	32
66	Projecting potential evapotranspiration change and quantifying its uncertainty under future climate scenarios: A case study in southeastern Australia. Journal of Hydrology, 2020, 584, 124756.	2.3	31
67	Using large-scale climate drivers to forecast meteorological drought condition in growing season across the Australian wheatbelt. Science of the Total Environment, 2020, 724, 138162.	3.9	31
68	The effect of bias correction and climate model resolution on wheat simulations forced with a regional climate model ensemble. International Journal of Climatology, 2016, 36, 4577-4591.	1.5	26
69	National-Scale Variation and Propagation Characteristics of Meteorological, Agricultural, and Hydrological Droughts in China. Remote Sensing, 2020, 12, 3407.	1.8	26
70	A meta-analysis of the possible impact of climate change on global cotton yield based on crop simulation approaches. Agricultural Systems, 2021, 193, 103221.	3.2	26
71	Crop yield forecasting and associated optimum lead time analysis based on multi-source environmental data across China. Agricultural and Forest Meteorology, 2021, 308-309, 108558.	1.9	26
72	Quantifying future drought change and associated uncertainty in southeastern Australia with multiple potential evapotranspiration models. Journal of Hydrology, 2020, 590, 125394.	2.3	25

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73	Modelling soil organic carbon 2. Changes under a range of cropping and grazing farming systems in eastern Australia. Geoderma, 2016, 265, 164-175.	2.3	24
74	Simulating soil surface temperature under plastic film mulching during seedling emergence of spring maize with the RZâ€“SHAW and DNDC models. Soil and Tillage Research, 2020, 197, 104517.	2.6	22
75	Quantifying the interaction of water and radiation use efficiency under plastic film mulch in winter wheat. Science of the Total Environment, 2021, 794, 148704.	3.9	22
76	Influence of the accuracy of reference crop evapotranspiration on drought monitoring using standardized precipitation evapotranspiration index in mainland China. Land Degradation and Development, 2020, 31, 266-282.	1.8	21
77	Spatiotemporal variability of standardized precipitation evapotranspiration index in mainland China over 1961â€“2016. International Journal of Climatology, 2020, 40, 4781-4799.	1.5	21
78	Projecting potential spatial and temporal changes in the distribution of Plasmodium vivax and Plasmodium falciparum malaria in China with climate change. Science of the Total Environment, 2018, 627, 1285-1293.	3.9	20
79	Quantifying sources of uncertainty in projected wheat yield changes under climate change in eastern Australia. Climatic Change, 2018, 151, 259-273.	1.7	20
80	Historical and future projected frequency of extreme precipitation indicators using the optimized cumulative distribution functions in China. Journal of Hydrology, 2019, 579, 124170.	2.3	20
81	Quantifying the impacts of pre-occurred ENSO signals on wheat yield variation using machine learning in Australia. Agricultural and Forest Meteorology, 2020, 291, 108043.	1.9	20
82	Machine learning-based integration of large-scale climate drivers can improve the forecast of seasonal rainfall probability in Australia. Environmental Research Letters, 2020, 15, 084051.	2.2	20
83	Incorporating grain legumes in cereal-based cropping systems to improve profitability in southern New South Wales, Australia. Agricultural Systems, 2017, 154, 112-123.	3.2	19
84	Climate change impacts on crop water productivity and net groundwater use under a double-cropping system with intensive irrigation in the Haihe River Basin, China. Agricultural Water Management, 2022, 266, 107560.	2.4	19
85	Plastic film mulching affects the critical nitrogen dilution curve of drip-irrigated maize. Field Crops Research, 2021, 263, 108055.	2.3	18
86	Projection of the climate change effects on soil water dynamics of summer maize grown in water repellent soils using APSIM and HYDRUS-1D models. Computers and Electronics in Agriculture, 2021, 185, 106142.	3.7	18
87	Late planting has great potential to mitigate the effects of future climate change on Australian rain-fed cotton. Science of the Total Environment, 2020, 714, 136806.	3.9	17
88	Mapping future soil carbon change and its uncertainty in croplands using simple surrogates of a complex farming system model. Geoderma, 2019, 337, 311-321.	2.3	16
89	Extreme rainfall, rainfall erosivity, and hillslope erosion in Australian Alpine region and their future changes. International Journal of Climatology, 2020, 40, 1213-1227.	1.5	16
90	Sizing utility-scale photovoltaic power generation for integration into a hydropower plant considering the effects of climate change: A case study in the Longyangxia of China. Energy, 2021, 236, 121519.	4.5	16

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91	Extreme fire weather is the major driver of severe bushfires in southeast Australia. Science Bulletin, 2022, 67, 655-664.	4.3	16
92	Propagation of climate model biases to biophysical modelling can complicate assessments of climate change impact in agricultural systems. International Journal of Climatology, 2019, 39, 424-444.	1.5	15
93	A GISâ€based climate change adaptation strategy tool. International Journal of Climate Change Strategies and Management, 2011, 3, 140-155.	1.5	14
94	Optimizing Sowing Date and Planting Density Can Mitigate the Impacts of Future Climate on Maize Yield: A Case Study in the Guanzhong Plain of China. Agronomy, 2021, 11, 1452.	1.3	14
95	Future climate impacts on forest growth and implications for carbon sequestration through reforestation in southeast Australia. Journal of Environmental Management, 2022, 302, 113964.	3.8	14
96	Designing high-yielding wheat crops under late sowing: a case study in southern China. Agronomy for Sustainable Development, 2022, 42, .	2.2	14
97	Incorporating vernalization response functions into an additive phenological model for reanalysis of the flowering data of annual pasture legumes. Field Crops Research, 2007, 101, 331-342.	2.3	13
98	Ecosystem Services under Climate Change Impact Water Infrastructure in a Highly Forested Basin. Water (Switzerland), 2020, 12, 2825.	1.2	13
99	Climate change impacts on rainfed cropping production systems in the tropics and the case of smallholder farms in North-west Cambodia. Environment, Development and Sustainability, 2017, 19, 1631-1647.	2.7	12
100	Evaluating water-saving efficiency of plastic mulching in Northwest China using remote sensing and SEBAL. Agricultural Water Management, 2018, 209, 240-248.	2.4	12
101	Modelling and evaluating the impacts of climate change on three major crops in south-eastern Australia using regional climate model simulations. Theoretical and Applied Climatology, 2019, 138, 509-526.	1.3	12
102	Indirect N2O emissions from groundwater under high nitrogen-load farmland in eastern China. Environmental Pollution, 2019, 248, 238-246.	3.7	12
103	Creating New Near-Surface Air Temperature Datasets to Understand Elevation-Dependent Warming in the Tibetan Plateau. Remote Sensing, 2020, 12, 1722.	1.8	12
104	Assessing future runoff changes with different potential evapotranspiration inputs based on multi-model ensemble of CMIP5 projections. Journal of Hydrology, 2022, 612, 128042.	2.3	12
105	Management of vegetative land for more water yield under future climate conditions in the over-utilized water resources regions: A case study in the Xiongâ€™an New area. Journal of Hydrology, 2021, 600, 126563.	2.3	11
106	Assessing maize potential to mitigate the adverse effects of future rising temperature and heat stress in China. Agricultural and Forest Meteorology, 2021, 311, 108673.	1.9	11
107	Simulation of Wheat Response to Future Climate Change Based on Coupled Model Inter-Comparison Project Phase 6 Multi-Model Ensemble Projections in the North China Plain. Frontiers in Plant Science, 2022, 13, 829580.	1.7	10
108	Projecting future changes in extreme climate for maize production in the North China Plain and the role of adjusting theÂsowing date. Mitigation and Adaptation Strategies for Global Change, 2022, 27, 1.	1.0	10

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109	Effects of organic amendments and ridgeâ€"furrow mulching system on soil properties and economic benefits of wolfberry orchards on the Tibetan Plateau. Science of the Total Environment, 2022, 827, 154317.	3.9	10
110	Responses of nitrous oxide emissions from crop rotation systems to four projected future climate change scenarios on a black Vertosol in subtropical Australia. Climatic Change, 2017, 142, 545-558.	1.7	9
111	Modelling biophysical vulnerability of wheat to future climate change: A case study in the eastern Australian wheat belt. Ecological Indicators, 2020, 114, 106290.	2.6	9
112	Comparisons among four different upscaling strategies for cultivar genetic parameters in rainfed spring wheat phenology simulations with the DSSAT-CERES-Wheat model. Agricultural Water Management, 2021, 258, 107181.	2.4	9
113	Characterizing spatiotemporal rainfall changes in 1960â€"2019 for continental Australia. International Journal of Climatology, 2021, 41, E2420.	1.5	9
114	Dominant sources of uncertainty in simulating maize adaptation under future climate scenarios in China. Agricultural Systems, 2022, 199, 103411.	3.2	9
115	Potential Benefits of Potato Yield at Two Sites of Agro-Pastoral Ecotone in North China Under Future Climate Change. International Journal of Plant Production, 2020, 14, 401-414.	1.0	8
116	Future Projection for Climate Suitability of Summer Maize in the North China Plain. Agriculture (Switzerland), 2022, 12, 348.	1.4	8
117	Projecting Changes in Temperature Extremes in the Han River Basin of China Using Downscaled CMIP5 Multi-Model Ensembles. Atmosphere, 2020, 11, 424.	1.0	7
118	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. Agricultural Water Management, 2022, 266, 107570.	2.4	7
119	The implication of spatial interpolated climate data on biophysical modelling in agricultural systems. International Journal of Climatology, 2020, 40, 2870-2890.	1.5	6
120	Over-Optimistic Projected Future Wheat Yield Potential in the North China Plain: The Role of Future Climate Extremes. Agronomy, 2022, 12, 145.	1.3	6
121	Soil temperature modeling in topsoil with plastic film mulching and low spring temperatures. Archives of Agronomy and Soil Science, 2020, 66, 1936-1947.	1.3	5
122	Incorporating dynamic factors for improving a GISâ€based solar radiation model. Transactions in GIS, 2020, 24, 423-441.	1.0	5
123	Orf Virus Detection in the Saliva and Milk of Dairy Goats. Frontiers in Microbiology, 2022, 13, 837808.	1.5	4
124	Biodegradation of p-nitrophenol by Pseudomonas Aeruginosa HS-D38. , 2008, , .		3
125	Crop resilience to climate change: A study of spatio-temporal variability of sugarcane yield in a subtropical region, China. Smart Agricultural Technology, 2021, 1, 100014.	3.1	3
126	Future climate change impacts on mulched maize production in an arid irrigation area. Agricultural Water Management, 2022, 266, 107550.	2.4	3

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127	Optimal Strategy on Radiation Estimation for Calculating Universal Thermal Climate Index in Tourism Cities of China. International Journal of Environmental Research and Public Health, 2022, 19, 8111.	1.2	3
128	Bioinformatics Analysis of Methyl Parathion Hydrolase MPH and the Structure Prediction with Homology Modeling. , 2008, , .		1
129	The role of cropping system adjustment in balancing grain yield and groundwater use across a rainfall gradient in the North China Plain under future climate scenarios[*]. Irrigation and Drainage, 2022, 71, 495-509.	0.8	1
130	Assessing climate vulnerability of historical wheat yield in south-eastern Australia's wheat belt. Agricultural Systems, 2022, 196, 103340.	3.2	1
131	Weather records from recent years performed better than analogue years when merging with real-time weather measurements for dynamic within-season predictions of rainfed maize yield. Agricultural and Forest Meteorology, 2022, 315, 108810.	1.9	1
132	Homology Modeling and Activity Analysis of the HMG-CoA Reductase from Streptococcus Pneumoniae. , 2008, , .		0
133	Recombinant Expression and Biosensor Design of Mouse Brain Acetylcholinesterase by One-Step Electrochemical Deposition. , 2011, , .		0
134	Differences in Spatiotemporal Variability of Potential and Reference Crop Evapotranspirations. Water (Switzerland), 2022, 14, 988.	1.2	0
135	Quantitative Analysis of Winter Wheat Growth and Yields Responding to Climate Change in Xinjiang, China. Water (Switzerland), 2021, 13, 3624.	1.2	0
136	Deficit Irrigation at Pre-Anthesis Can Balance Wheat Yield and Water Use Efficiency under Future Climate Change in North China Plain. Biology, 2022, 11, 692.	1.3	0