

Lei Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,845
citations

567144

15
h-index

501076

28
g-index

35
all docs

35
docs citations

35
times ranked

3617
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong contributions of local background climate to urban heat islands. <i>Nature</i> , 2014, 511, 216-219.	13.7	913
2	Observed increase in local cooling effect of deforestation at higher latitudes. <i>Nature</i> , 2011, 479, 384-387.	13.7	543
3	Urban heat islands in China enhanced by haze pollution. <i>Nature Communications</i> , 2016, 7, 12509.	5.8	286
4	Interactions between urban heat islands and heat waves. <i>Environmental Research Letters</i> , 2018, 13, 034003.	2.2	246
5	Global lake evaporation accelerated by changes in surface energy allocation in a warmer climate. <i>Nature Geoscience</i> , 2018, 11, 410-414.	5.4	164
6	Global multi-model projections of local urban climates. <i>Nature Climate Change</i> , 2021, 11, 152-157.	8.1	149
7	Cooling hot cities: a systematic and critical review of the numerical modelling literature. <i>Environmental Research Letters</i> , 2021, 16, 053007.	2.2	85
8	Toward building a transparent statistical model for improving crop yield prediction: Modeling rainfed corn in the U.S. <i>Field Crops Research</i> , 2019, 234, 55-65.	2.3	67
9	Correcting surface solar radiation of two data assimilation systems against FLUXNET observations in North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9552-9564.	1.2	60
10	Assessing the use of subgrid land model output to study impacts of land cover change. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6133-6147.	1.2	57
11	Contrasting impacts of forests on cloud cover based on satellite observations. <i>Nature Communications</i> , 2022, 13, 670.	5.8	42
12	A wedge strategy for mitigation of urban warming in future climate scenarios. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9067-9080.	1.9	39
13	Urban growth and climate adaptation. <i>Nature Climate Change</i> , 2018, 8, 1034-1034.	8.1	28
14	Large model structural uncertainty in global projections of urban heat waves. <i>Nature Communications</i> , 2021, 12, 3736.	5.8	27
15	Deforestation reshapes land-surface energy-flux partitioning. <i>Environmental Research Letters</i> , 2021, 16, 024014.	2.2	19
16	Estimating Submicron Aerosol Mixing State at the Global Scale With Machine Learning and Earth System Modeling. <i>Earth and Space Science</i> , 2021, 8, e2020EA001500.	1.1	15
17	Influence of Leaf Area Index on the Radiometric Resistance to Heat Transfer. <i>Boundary-Layer Meteorology</i> , 2016, 158, 105-123.	1.2	14
18	Building a machine learning surrogate model for wildfire activities within a global Earth system model. <i>Geoscientific Model Development</i> , 2022, 15, 1899-1911.	1.3	13

#	ARTICLE	IF	CITATIONS
19	Effect of carbon market on air pollution: Firm-level evidence in China. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106321.	5.3	13
20	Divergent responses of maize yield to precipitation in the United States. <i>Environmental Research Letters</i> , 2022, 17, 014016.	2.2	11
21	Large-scale point cloud contour extraction via 3D guided multi-conditional generative adversarial network. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 164, 97-105.	4.9	9
22	A generic risk assessment framework to evaluate historical and future climate-induced risk for rainfed corn and soybean yield in the U.S. Midwest. <i>Weather and Climate Extremes</i> , 2021, 33, 100369.	1.6	9
23	Using Information Theory to Evaluate Directional Precipitation Interactions Over the West Sahel Region in Observations and Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1463-1473.	1.2	8
24	Quantifying the structural uncertainty of the aerosol mixing state representation in a modal model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17727-17741.	1.9	8
25	Environmental Consequences of Potential Strategies for China to Prepare for Natural Gas Import Disruptions. <i>Environmental Science & Technology</i> , 2022, 56, 1183-1193.	4.6	6
26	DeepUrbanDownscale: A physics informed deep learning framework for high-resolution urban surface temperature estimation via 3D point clouds. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 106, 102650.	1.4	5
27	Machine Learning-Based Modeling of Spatio-Temporally Varying Responses of Rainfed Corn Yield to Climate, Soil, and Management in the U.S. Corn Belt. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 647999.	2.0	4
28	A global dataset on subgrid land surface climate (2015â€“2100) from the Community Earth System Model. <i>Geoscience Data Journal</i> , 2023, 10, 208-219.	1.8	3
29	The Object Enlargement of Fuzzy Concept Lattices. , 2008, , .		0