Lei Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5497518/publications.pdf

Version: 2024-02-01

29 papers	2,845 citations	567281 15 h-index	501196 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. Nature, 2014, 511, 216-219.	27.8	913
2	Observed increase in local cooling effect of deforestation at higher latitudes. Nature, 2011, 479, 384-387.	27.8	543
3	Urban heat islands in China enhanced by haze pollution. Nature Communications, 2016, 7, 12509.	12.8	286
4	Interactions between urban heat islands and heat waves. Environmental Research Letters, 2018, 13, 034003.	5.2	246
5	Global lake evaporation accelerated by changes in surface energy allocation in a warmer climate. Nature Geoscience, 2018, 11, 410-414.	12.9	164
6	Global multi-model projections of local urban climates. Nature Climate Change, 2021, 11, 152-157.	18.8	149
7	Cooling hot cities: a systematic and critical review of the numerical modelling literature. Environmental Research Letters, 2021, 16, 053007.	5.2	85
8	Toward building a transparent statistical model for improving crop yield prediction: Modeling rainfed corn in the U.S. Field Crops Research, 2019, 234, 55-65.	5.1	67
9	Correcting surface solar radiation of two data assimilation systems against FLUXNET observations in North America. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9552-9564.	3.3	60
10	Assessing the use of subgrid land model output to study impacts of land cover change. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6133-6147.	3.3	57
11	Contrasting impacts of forests on cloud cover based on satellite observations. Nature Communications, 2022, 13, 670.	12.8	42
12	A wedge strategy for mitigation of urban warming in future climate scenarios. Atmospheric Chemistry and Physics, 2017, 17, 9067-9080.	4.9	39
13	Urban growth and climate adaptation. Nature Climate Change, 2018, 8, 1034-1034.	18.8	28
14	Large model structural uncertainty in global projections of urban heat waves. Nature Communications, 2021, 12, 3736.	12.8	27
15	Deforestation reshapes land-surface energy-flux partitioning. Environmental Research Letters, 2021, 16, 024014.	5.2	19
16	Estimating Submicron Aerosol Mixing State at the Global Scale With Machine Learning and Earth System Modeling. Earth and Space Science, 2021, 8, e2020EA001500.	2.6	15
17	Influence of Leaf Area Index on the Radiometric Resistance to Heat Transfer. Boundary-Layer Meteorology, 2016, 158, 105-123.	2.3	14
18	Building a machine learning surrogate model for wildfire activities within a global Earth system model. Geoscientific Model Development, 2022, 15, 1899-1911.	3.6	13

#	Article	IF	Citations
19	Effect of carbon market on air pollution: Firm-level evidence in China. Resources, Conservation and Recycling, 2022, 182, 106321.	10.8	13
20	Divergent responses of maize yield to precipitation in the United States. Environmental Research Letters, 2022, 17, 014016.	5.2	11
21	Large-scale point cloud contour extraction via 3D guided multi-conditional generative adversarial network. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 164, 97-105.	11.1	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. Weather and Climate Extremes, 2021, 33, 100369.	4.1	9
23	Using Information Theory to Evaluate Directional Precipitation Interactions Over the West Sahel Region in Observations and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1463-1473.	3.3	8
24	Quantifying the structural uncertainty of the aerosol mixing state representation in a modal model. Atmospheric Chemistry and Physics, 2021, 21, 17727-17741.	4.9	8
25	Environmental Consequences of Potential Strategies for China to Prepare for Natural Gas Import Disruptions. Environmental Science & Technology, 2022, 56, 1183-1193.	10.0	6
26	DeepUrbanDownscale: A physics informed deep learning framework for high-resolution urban surface temperature estimation via 3D point clouds. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102650.	2.8	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. Frontiers in Artificial Intelligence, 2021, 4, 647999.	3.4	4
28	A global dataset on subgrid land surface climate (2015â€“2100) from the Community Earth System Model. Geoscience Data Journal, 2023, 10, 208-219.	4.4	3
29	The Object Enlargement of Fuzzy Concept Lattices. , 2008, , .		0