

Ying Liu

List of Publications by Year in descending order

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papers

1,428
citations

394421

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39
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2841
citing authors

#	ARTICLE	IF	CITATIONS
1	Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 380-390.	2.7	11
2	Sensitivity of solar irradiance to model parameters in cloud and aerosol treatments of WRF-solar. <i>Solar Energy</i> , 2022, 233, 446-460.	6.1	6
3	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 932-942.	2.7	6
4	Impacts of Large-Scale Urbanization and Irrigation on Summer Precipitation in the Mid-Atlantic Region of the United States. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
5	Impact of Vegetation Physiology and Phenology on Watershed Hydrology in a Semiarid Watershed in the Pacific Northwest in a Changing Climate. <i>Water Resources Research</i> , 2021, 57, e2020WR028394.	4.2	6
6	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033539.	3.3	19
7	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. <i>Environmental Science & Technology</i> , 2021, 55, 4357-4367.	10.0	12
8	Impact of Lateral Flow on Surface Water and Energy Budgets Over the Southern Great Plains—A Modeling Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033659.	3.3	8
9	Time Evolution and Diurnal Variability of the Parametric Sensitivity of Turbine-Height Winds in the MYNN-EDMF Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034000.	3.3	6
10	Modeling Volatility-Based Aerosol Phase State Predictions in the Amazon Rainforest. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2910-2924.	2.7	8
11	Urbanization Amplifies Nighttime Heat Stress on Warmer Days Over the US. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	29
12	Effects of Irrigation on Water, Carbon, and Nitrogen Budgets in a Semiarid Watershed in the Pacific Northwest: A Modeling Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001953.	3.8	15
13	Neglecting irrigation contributes to the simulated summertime warm-and-dry bias in the central United States. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	24
14	Understanding irrigation impacts on low-level jets over the Great Plains. <i>Climate Dynamics</i> , 2020, 55, 925-943.	3.8	7
15	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25344-25351.	7.1	49
16	Incorporating Climate Nonstationarity and Snowmelt Processes in Intensity-Duration-Frequency Analyses with Case Studies in Mountainous Areas. <i>Journal of Hydrometeorology</i> , 2019, 20, 2331-2346.	1.9	10
17	Irrigation Impact on Water and Energy Cycle During Dry Years Over the United States Using Convection-Permitting WRF and a Dynamical Recycling Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11220-11241.	3.3	34
18	Impacts of Spatial Heterogeneity and Temporal Non-Stationarity on Intensity-Duration-Frequency Estimates—A Case Study in a Mountainous California-Nevada Watershed. <i>Water (Switzerland)</i> , 2019, 11, 1296.	2.7	16

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19	Parametric and Structural Sensitivities of Turbine-Height Wind Speeds in the Boundary Layer Parameterizations in the Weather Research and Forecasting Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5951-5969.	3.3	23
20	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. <i>Nature Communications</i> , 2019, 10, 1046.	12.8	131
21	Sensitivity of Turbine-Height Wind Speeds to Parameters in the Planetary Boundary-Layer Parametrization Used in the Weather Research and Forecasting Model: Extension to Wintertime Conditions. <i>Boundary-Layer Meteorology</i> , 2019, 170, 507-518.	2.3	19
22	CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3612-3644.	3.3	62
23	Introduction to CAUSES: Description of Weather and Climate Models and Their Near-Surface Temperature Errors in 5-Day Hindcasts Near the Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2655-2683.	3.3	53
24	Predictability of Extreme Precipitation in Western U.S. Watersheds Based on Atmospheric River Occurrence, Intensity, and Duration. <i>Geophysical Research Letters</i> , 2018, 45, 11,693.	4.0	44
25	CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2888-2909.	3.3	60
26	Dust-wind interactions can intensify aerosol pollution over eastern China. <i>Nature Communications</i> , 2017, 8, 15333.	12.8	105
27	Airborne observations reveal elevational gradient in tropical forest isoprene emissions. <i>Nature Communications</i> , 2017, 8, 15541.	12.8	53
28	Impacts of interactive dust and its direct radiative forcing on interannual variations of temperature and precipitation in winter over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8761-8780.	3.3	12
29	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate stream-aquifer-land interactions (CPv1.0). <i>Geoscientific Model Development</i> , 2017, 10, 4539-4562.	3.6	25
30	Sensitivity of biogenic volatile organic compounds to land surface parameterizations and vegetation distributions in California. <i>Geoscientific Model Development</i> , 2016, 9, 1959-1976.	3.6	34
31	Changes in Sea Salt Emissions Enhance ENSO Variability. <i>Journal of Climate</i> , 2016, 29, 8575-8588.	3.2	12
32	Impacts of the East Asian Monsoon on springtime dust concentrations over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8137-8152.	3.3	16
33	Impacts of ENSO events on cloud radiative effects in preindustrial conditions: Changes in cloud fraction and their dependence on interactive aerosol emissions and concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6321-6335.	3.3	23
34	DMS role in ENSO cycle in the tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,537.	3.3	10
35	Rain-aerosol relationships influenced by wind speed. <i>Geophysical Research Letters</i> , 2016, 43, 2267-2274.	4.0	14
36	Examining the effects of anthropogenic emissions on isoprene-derived secondary organic aerosol formation during the 2013 Southern Oxidant and Aerosol Study (SOAS) at the Look Rock, Tennessee ground site. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8871-8888.	4.9	213

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37	21st century United States emissions mitigation could increase water stress more than the climate change it is mitigating. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10635-10640.	7.1	128
38	Robust spring drying in the southwestern U.S. and seasonal migration of wet/dry patterns in a warmer climate. Geophysical Research Letters, 2014, 41, 1745-1751.	4.0	64
39	Uncertainty Analysis of Runoff Simulations and Parameter Identifiability in the Community Land Model: Evidence from MOPEX Basins. Journal of Hydrometeorology, 2013, 14, 1754-1772.	1.9	55