Ying Liu

List of Publications by Year in descending order

39 papers	1,428 citations	394421 19 h-index	330143 37 g-index
39 all docs	39 docs citations	39 times ranked	2841 citing authors

#	Article	IF	Citations
1	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. Atmospheric Chemistry and Physics, 2015, 15, 8871-8888.	4.9	213
2	Urban pollution greatly enhances formation of natural aerosols over the Amazon rainforest. Nature Communications, 2019, 10, 1046.	12.8	131
3	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
4	Dust-wind interactions can intensify aerosol pollution over eastern China. Nature Communications, 2017, 8, 15333.	12.8	105
5	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
6	CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3612-3644.	3.3	62
7	CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2888-2909.	3.3	60
8	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
9	Airborne observations reveal elevational gradient in tropical forest isoprene emissions. Nature Communications, 2017, 8, 15541.	12.8	53
10	Introduction to CAUSES: Description of Weather and Climate Models and Their Nearâ€Surface Temperature Errors in 5Âday Hindcasts Near the Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2655-2683.	3.3	53
11	High concentration of ultrafine particles in the Amazon free troposphere produced by organic new particle formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25344-25351.	7.1	49
12	Predictability of Extreme Precipitation in Western U.S. Watersheds Based on Atmospheric River Occurrence, Intensity, and Duration. Geophysical Research Letters, 2018, 45, 11,693.	4.0	44
13	Sensitivity of biogenic volatile organic compounds to land surface parameterizations and vegetation distributions in California. Geoscientific Model Development, 2016, 9, 1959-1976.	3.6	34
14	Irrigation Impact on Water and Energy Cycle During Dry Years Over the United States Using Convectionâ€Permitting WRF and a Dynamical Recycling Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11220-11241.	3.3	34
15	Urbanization Amplifies Nighttime Heat Stress on Warmer Days Over the US. Geophysical Research Letters, 2021, 48, .	4.0	29
16	Coupling a three-dimensional subsurface flow and transport model with a land surface model to simulate streamâ€“aquiferâ€“land interactions (CPÂv1.0). Geoscientific Model Development, 2017, 10, 4539-4562.	3.6	25
17	Neglecting irrigation contributes to the simulated summertime warm-and-dry bias in the central United States. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	24
18	Impacts of ENSO events on cloud radiative effects in preindustrial conditions: Changes in cloud fraction and their dependence on interactive aerosol emissions and concentrations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6321-6335.	3.3	23

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19	Parametric and Structural Sensitivities of Turbineâ€Height Wind Speeds in the Boundary Layer Parameterizations in the Weather Research and Forecasting Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5951-5969.	3.3	23
20	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. Boundary-Layer Meteorology, 2019, 170, 507-518.	2.3	19
21	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033539.	3.3	19
22	Impacts of the East Asian Monsoon on springtime dust concentrations over China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8137-8152.	3.3	16
23	Impacts of Spatial Heterogeneity and Temporal Non-Stationarity on Intensity-Duration-Frequency Estimatesâ€"A Case Study in a Mountainous California-Nevada Watershed. Water (Switzerland), 2019, 11, 1296.	2.7	16
24	Effects of Irrigation on Water, Carbon, and Nitrogen Budgets in a Semiarid Watershed in the Pacific Northwest: A Modeling Study. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001953.	3.8	15
25	Rainâ€aerosol relationships influenced by wind speed. Geophysical Research Letters, 2016, 43, 2267-2274.	4.0	14
26	Changes in Sea Salt Emissions Enhance ENSO Variability. Journal of Climate, 2016, 29, 8575-8588.	3.2	12
27	Impacts of interactive dust and its direct radiative forcing on interannual variations of temperature and precipitation in winter over East Asia. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8761-8780.	3.3	12
28	Impact of Urban Pollution on Organic-Mediated New-Particle Formation and Particle Number Concentration in the Amazon Rainforest. Environmental Science & Technology, 2021, 55, 4357-4367.	10.0	12
29	Tight Coupling of Surface and In-Plant Biochemistry and Convection Governs Key Fine Particulate Components over the Amazon Rainforest. ACS Earth and Space Chemistry, 2022, 6, 380-390.	2.7	11
30	DMS role in ENSO cycle in the tropics. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,537.	3.3	10
31	Incorporating Climate Nonstationarity and Snowmelt Processes in Intensityâ€"Durationâ€"Frequency Analyses with Case Studies in Mountainous Areas. Journal of Hydrometeorology, 2019, 20, 2331-2346.	1.9	10
32	Impact of Lateral Flow on Surface Water and Energy Budgets Over the Southern Great Plainsâ€"A Modeling Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033659.	3.3	8
33	Modeling Volatility-Based Aerosol Phase State Predictions in the Amazon Rainforest. ACS Earth and Space Chemistry, 2021, 5, 2910-2924.	2.7	8
34	Understanding irrigation impacts on low-level jets over the Great Plains. Climate Dynamics, 2020, 55, 925-943.	3.8	7
35	Impact of Vegetation Physiology and Phenology on Watershed Hydrology in a Semiarid Watershed in the Pacific Northwest in a Changing Climate. Water Resources Research, 2021, 57, e2020WR028394.	4.2	6
36	Time Evolution and Diurnal Variability of the Parametric Sensitivity of Turbineâ€Height Winds in the MYNNâ€EDMF Parameterization. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034000.	3.3	6

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37	Sensitivity of solar irradiance to model parameters in cloud and aerosol treatments of WRF-solar. Solar Energy, 2022, 233, 446-460.	6.1	6
38	Novel Application of Machine Learning Techniques for Rapid Source Apportionment of Aerosol Mass Spectrometer Datasets. ACS Earth and Space Chemistry, 2022, 6, 932-942.	2.7	6
39	Impacts of Largeâ€Scale Urbanization and Irrigation on Summer Precipitation in the Midâ€Atlantic Region of the United States. Geophysical Research Letters, 2022, 49, .	4.0	6