

Youlong Xia

List of Publications by Year in descending order

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61
papers

6,459
citations

101384

36
h-index

133063

59
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61
all docs

61
docs citations

61
times ranked

6083
citing authors

#	ARTICLE	IF	CITATIONS
1	The community Noah land surface model with multiparameterization options (Noah-MP): 1. Model description and evaluation with local-scale measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	1,626
2	Continental-scale water and energy flux analysis and validation for the North American Land Data Assimilation System project phase 2 (NLDAS-2): 1. Intercomparison and application of model products. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	530
3	The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	475
4	Seasonal Drought Prediction: Advances, Challenges, and Future Prospects. <i>Reviews of Geophysics</i> , 2018, 56, 108-141.	9.0	323
5	Continental-scale water and energy flux analysis and validation for North American Land Data Assimilation System project phase 2 (NLDAS-2): 2. Validation of model-simulated streamflow. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	229
6	Drought onset mechanisms revealed by satellite solar-induced chlorophyll fluorescence: Insights from two contrasting extreme events. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2427-2440.	1.3	224
7	Simulation of high-latitude hydrological processes in the Torne-Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003, 38, 1-30.	1.6	194
8	Assimilation of Remotely Sensed Soil Moisture and Snow Depth Retrievals for Drought Estimation. <i>Journal of Hydrometeorology</i> , 2014, 15, 2446-2469.	0.7	167
9	Evaluation of multi-model simulated soil moisture in NLDAS-2. <i>Journal of Hydrology</i> , 2014, 512, 107-125.	2.3	163
10	Evaluating Different Machine Learning Methods for Upscaling Evapotranspiration from Flux Towers to the Regional Scale. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8674-8690.	1.2	141
11	Noah LSM Snow Model Diagnostics and Enhancements. <i>Journal of Hydrometeorology</i> , 2010, 11, 721-738.	0.7	137
12	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. <i>Journal of Hydrometeorology</i> , 2016, 17, 1951-1972.	0.7	137
13	Assessment of simulated water balance from Noah, Noah-MP, CLM, and VIC over CONUS using the NLDAS test bed. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,751.	1.2	127
14	Forest climatology: estimation of missing values for Bavaria, Germany. <i>Agricultural and Forest Meteorology</i> , 1999, 96, 131-144.	1.9	99
15	Results of the DMIP 2 Oklahoma experiments. <i>Journal of Hydrology</i> , 2012, 418-419, 17-48.	2.3	97
16	An Overview of Drought Monitoring and Prediction Systems at Regional and Global Scales. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1879-1896.	1.7	96
17	A Systematic Evaluation of Noah-MP in Simulating Land-Atmosphere Energy, Water, and Carbon Exchanges Over the Continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,245.	1.2	92
18	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. <i>Journal of Hydrology</i> , 2019, 578, 124105.	2.3	92

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19	Benchmarking NLDAS-2 Soil Moisture and Evapotranspiration to Separate Uncertainty Contributions. <i>Journal of Hydrometeorology</i> , 2016, 17, 745-759.	0.7	82
20	Comparative analysis of relationships between NLDAS's forcings and model outputs. <i>Hydrological Processes</i> , 2012, 26, 467-474.	1.1	78
21	Comparison of NLDAS-2 Simulated and NASMD Observed Daily Soil Moisture. Part I: Comparison and Analysis. <i>Journal of Hydrometeorology</i> , 2015, 16, 1962-1980.	0.7	77
22	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. <i>Water Resources Research</i> , 2020, 56, e2020WR027556.	1.7	73
23	Drought Indices Based on the Climate Forecast System Reanalysis and Ensemble NLDAS. <i>Journal of Hydrometeorology</i> , 2011, 12, 181-205.	0.7	70
24	Application of USDM statistics in NLDAS-2: Optimal blended NLDAS drought index over the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2947-2965.	1.2	69
25	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. <i>Journal of Meteorological Research</i> , 2019, 33, 159-189.	0.9	63
26	Comparison and Assessment of Three Advanced Land Surface Models in Simulating Terrestrial Water Storage Components over the United States. <i>Journal of Hydrometeorology</i> , 2017, 18, 625-649.	0.7	61
27	Improvement of the Noah land surface model for warm season processes: evaluation of water and energy flux simulation. <i>Hydrological Processes</i> , 2013, 27, 297-303.	1.1	59
28	Probabilistic prediction of hydrologic drought using a conditional probability approach based on the meta-Gaussian model. <i>Journal of Hydrology</i> , 2016, 542, 772-780.	2.3	59
29	A theoretical drought classification method for the multivariate drought index based on distribution properties of standardized drought indices. <i>Advances in Water Resources</i> , 2016, 92, 240-247.	1.7	56
30	Optimal parameter and uncertainty estimation of a land surface model: A case study using data from Cabauw, Netherlands. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
31	Validation of Noah-Simulated Soil Temperature in the North American Land Data Assimilation System Phase 2. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 455-471.	0.6	49
32	Evaluation of NLDAS's evapotranspiration against tower flux site observations. <i>Hydrological Processes</i> , 2015, 29, 1757-1771.	1.1	49
33	Evaluation and comparison of multiple evapotranspiration data models over the contiguous United States: Implications for the next phase of NLDAS (NLDAS-Testbed) development. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107810.	1.9	45
34	A multivariate approach for statistical assessments of compound extremes. <i>Journal of Hydrology</i> , 2018, 565, 87-94.	2.3	44
35	A monitoring and prediction system for compound dry and hot events. <i>Environmental Research Letters</i> , 2019, 14, 114034.	2.2	44
36	Impacts of data length on optimal parameter and uncertainty estimation of a land surface model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	39

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37	Forest climatology: estimation and use of daily climatological data for Bavaria, Germany. <i>Agricultural and Forest Meteorology</i> , 2001, 106, 87-103.	1.9	37
38	Uncertainties, Correlations, and Optimal Blends of Drought Indices from the NLDAS Multiple Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 1636-1650.	0.7	37
39	Basin-scale assessment of the land surface water budget in the National Centers for Environmental Prediction operational and research NLDAS systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2750-2779.	1.2	35
40	Similarity Assessment of Land Surface Model Outputs in the North American Land Data Assimilation System. <i>Water Resources Research</i> , 2017, 53, 8941-8965.	1.7	34
41	Patterns of precipitation and soil moisture extremes in Texas, US: A complex network analysis. <i>Advances in Water Resources</i> , 2018, 112, 203-213.	1.7	32
42	Comparison of NLDAS-2 Simulated and NASMD Observed Daily Soil Moisture. Part II: Impact of Soil Texture Classification and Vegetation Type Mismatches. <i>Journal of Hydrometeorology</i> , 2015, 16, 1981-2000.	0.7	27
43	A Statistical Method for Categorical Drought Prediction Based on NLDAS-2. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 1049-1061.	0.6	27
44	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. <i>Remote Sensing</i> , 2020, 12, 878.	1.8	24
45	Automated Quality Control of In Situ Soil Moisture from the North American Soil Moisture Database Using NLDAS-2 Products. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1267-1282.	0.6	23
46	Improved NLDAS-2 Noah-2 simulated hydrometeorological products with an interim run. <i>Hydrological Processes</i> , 2015, 29, 780-792.	1.1	21
47	Toward a categorical drought prediction system based on U.S. Drought Monitor (USDM) and climate forecast. <i>Journal of Hydrology</i> , 2017, 551, 300-305.	2.3	21
48	Basin-scale assessment of the land surface energy budget in the National Centers for Environmental Prediction operational and research NLDAS systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 196-220.	1.2	16
49	Probabilistic drought characterization in the categorical form using ordinal regression. <i>Journal of Hydrology</i> , 2016, 535, 331-339.	2.3	16
50	Comprehensive Evaluation of the Variable Infiltration Capacity (VIC) Model in the North American Land Data Assimilation System. <i>Journal of Hydrometeorology</i> , 2018, 19, 1853-1879.	0.7	15
51	Forest climatology: reconstruction of mean climatological data for Bavaria, Germany. <i>Agricultural and Forest Meteorology</i> , 1999, 96, 117-129.	1.9	14
52	Using different hydrological variables to assess the impacts of atmospheric forcing errors on optimization and uncertainty analysis of the CHASM surface model at a cold catchment. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	11
53	Multidataset Study of Optimal Parameter and Uncertainty Estimation of a Land Surface Model with Bayesian Stochastic Inversion and Multicriteria Method. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 1477-1497.	1.7	10
54	Overview of the North American Land Data Assimilation System (NLDAS). , 2013, , 337-377.		9

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55	Quality Control and Evaluation of the Observed Daily Data in the North American Soil Moisture Database. <i>Journal of Meteorological Research</i> , 2019, 33, 501-518.	0.9	8
56	Optimization and uncertainty estimates of WMO regression models for the systematic bias adjustment of NLDAS precipitation in the United States. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	7
57	Impacts of systematic precipitation bias on simulations of water and energy balances in Northwest America. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 739-749.	1.9	7
58	Incorporating remote sensing-based ET estimates into the Community Land Model version 4.5. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3557-3577.	1.9	7
59	Optimal parameter and uncertainty estimation of a land surface model: Sensitivity to parameter ranges and model complexities. <i>Advances in Atmospheric Sciences</i> , 2005, 22, 142-157.	1.9	3
60	EFFECT OF FORCING DATA ERRORS ON CALIBRATION AND UNCERTAINTY ESTIMATES OF THE CHASM MODEL: A MULTI-DATASET STUDY. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2004, , 340-355.	0.2	2
61	Satellite Remote Sensing Drought Monitoring and Predictions over the Globe. , 2016, , 259-296.		1