Youlong Xia

List of Publications by Year in descending order

61 papers	6,459 citations	101543 36 h-index	133252 59 g-index
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. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2012, 117, .	3.3	530
3	The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins. Journal of Geophysical Research, 2011, 116, .	3.3	475
4	Seasonal Drought Prediction: Advances, Challenges, and Future Prospects. Reviews of Geophysics, 2018, 56, 108-141.	23.0	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. Journal of Geophysical Research, 2012, 117, .	3.3	229
6	Drought onset mechanisms revealed by satellite solar‐induced chlorophyll fluorescence: Insights from two contrasting extreme events. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2427-2440.	3.0	224
7	Simulation of high-latitude hydrological processes in the Torne‐Kalix basin: PILPS Phase 2(e). Global and Planetary Change, 2003, 38, 1-30.	3.5	194
8	Assimilation of Remotely Sensed Soil Moisture and Snow Depth Retrievals for Drought Estimation. Journal of Hydrometeorology, 2014, 15, 2446-2469.	1.9	167
9	Evaluation of multi-model simulated soil moisture in NLDAS-2. Journal of Hydrology, 2014, 512, 107-125.	5.4	163
10	Evaluating Different Machine Learning Methods for Upscaling Evapotranspiration from Flux Towers to the Regional Scale. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8674-8690.	3.3	141
11	Noah LSM Snow Model Diagnostics and Enhancements. Journal of Hydrometeorology, 2010, 11, 721-738.	1.9	137
12	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2016, 17, 1951-1972.	1.9	137
13	Assessment of simulated water balance from Noah, Noah‐MP, CLM, and VIC over CONUS using the NLDAS test bed. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,751.	3.3	127
14	Forest climatology: estimation of missing values for Bavaria, Germany. Agricultural and Forest Meteorology, 1999, 96, 131-144.	4.8	99
15	Results of the DMIP 2 Oklahoma experiments. Journal of Hydrology, 2012, 418-419, 17-48.	5.4	97
16	An Overview of Drought Monitoring and Prediction Systems at Regional and Global Scales. Bulletin of the American Meteorological Society, 2017, 98, 1879-1896.	3.3	96
17	A Systematic Evaluation of Noah‐MP in Simulating Land‐Atmosphere Energy, Water, and Carbon Exchanges Over the Continental United States. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,245.	3.3	92
18	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. Journal of Hydrology, 2019, 578, 124105.	5.4	92

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19	Benchmarking NLDAS-2 Soil Moisture and Evapotranspiration to Separate Uncertainty Contributions. Journal of Hydrometeorology, 2016, 17, 745-759.	1.9	82
20	Comparative analysis of relationships between NLDASâ€2 forcings and model outputs. Hydrological Processes, 2012, 26, 467-474.	2.6	78
21	Comparison of NLDAS-2 Simulated and NASMD Observed Daily Soil Moisture. Part I: Comparison and Analysis. Journal of Hydrometeorology, 2015, 16, 1962-1980.	1.9	77
22	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. Water Resources Research, 2020, 56, e2020WR027556.	4.2	73
23	Drought Indices Based on the Climate Forecast System Reanalysis and Ensemble NLDAS. Journal of Hydrometeorology, 2011, 12, 181-205.	1.9	70
24	Application of USDM statistics in NLDAS-2: Optimal blended NLDAS drought index over the continental United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2947-2965.	3.3	69
25	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. Journal of Meteorological Research, 2019, 33, 159-189.	2.4	63
26	Comparison and Assessment of Three Advanced Land Surface Models in Simulating Terrestrial Water Storage Components over the United States. Journal of Hydrometeorology, 2017, 18, 625-649.	1.9	61
27	Improvement of the Noah land surface model for warm season processes: evaluation of water and energy flux simulation. Hydrological Processes, 2013, 27, 297-303.	2.6	59
28	Probabilistic prediction of hydrologic drought using a conditional probability approach based on the meta-Gaussian model. Journal of Hydrology, 2016, 542, 772-780.	5.4	59
29	A theoretical drought classification method for the multivariate drought index based on distribution properties of standardized drought indices. Advances in Water Resources, 2016, 92, 240-247.	3.8	56
30	Optimal parameter and uncertainty estimation of a land surface model: A case study using data from Cabauw, Netherlands. Journal of Geophysical Research, 2003, 108, .	3.3	49
31	Validation of Noah-Simulated Soil Temperature in the North American Land Data Assimilation System Phase 2. Journal of Applied Meteorology and Climatology, 2013, 52, 455-471.	1.5	49
32	Evaluation of NLDASâ€2 evapotranspiration against tower flux site observations. Hydrological Processes, 2015, 29, 1757-1771.	2.6	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. Agricultural and Forest Meteorology, 2020, 280, 107810.	4.8	45
34	A multivariate approach for statistical assessments of compound extremes. Journal of Hydrology, 2018, 565, 87-94.	5.4	44
35	A monitoring and prediction system for compound dry and hot events. Environmental Research Letters, 2019, 14, 114034.	5.2	44
36	Impacts of data length on optimal parameter and uncertainty estimation of a land surface model. Journal of Geophysical Research, 2004, 109, .	3.3	39

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37	Forest climatology: estimation and use of daily climatological data for Bavaria, Germany. Agricultural and Forest Meteorology, 2001, 106, 87-103.	4.8	37
38	Uncertainties, Correlations, and Optimal Blends of Drought Indices from the NLDAS Multiple Land Surface Model Ensemble. Journal of Hydrometeorology, 2014, 15, 1636-1650.	1.9	37
39	Basinâ€scale assessment of the land surface water budget in the National Centers for Environmental Prediction operational and research NLDASâ€2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2750-2779.	3.3	35
40	Similarity Assessment of Land Surface Model Outputs in the North American Land Data Assimilation System. Water Resources Research, 2017, 53, 8941-8965.	4.2	34
41	Patterns of precipitation and soil moisture extremes in Texas, US: A complex network analysis. Advances in Water Resources, 2018, 112, 203-213.	3.8	32
42	Comparison of NLDAS-2 Simulated and NASMD Observed Daily Soil Moisture. Part II: Impact of Soil Texture Classification and Vegetation Type Mismatches. Journal of Hydrometeorology, 2015, 16, 1981-2000.	1.9	27
43	A Statistical Method for Categorical Drought Prediction Based on NLDAS-2. Journal of Applied Meteorology and Climatology, 2016, 55, 1049-1061.	1.5	27
44	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. Remote Sensing, 2020, 12, 878.	4.0	24
45	Automated Quality Control of In Situ Soil Moisture from the North American Soil Moisture Database Using NLDAS-2 Products. Journal of Applied Meteorology and Climatology, 2015, 54, 1267-1282.	1.5	23
46	Improved NLDASâ€2 Noahâ€simulated hydrometeorological products with an interim run. Hydrological Processes, 2015, 29, 780-792.	2.6	21
47	Toward a categorical drought prediction system based on U.S. Drought Monitor (USDM) and climate forecast. Journal of Hydrology, 2017, 551, 300-305.	5.4	21
48	Basinâ€scale assessment of the land surface energy budget in the National Centers for Environmental Prediction operational and research NLDASâ€2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 196-220.	3.3	16
49	Probabilistic drought characterization in the categorical form using ordinal regression. Journal of Hydrology, 2016, 535, 331-339.	5.4	16
50	Comprehensive Evaluation of the Variable Infiltration Capacity (VIC) Model in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2018, 19, 1853-1879.	1.9	15
51	Forest climatology: reconstruction of mean climatological data for Bavaria, Germany. Agricultural and Forest Meteorology, 1999, 96, 117-129.	4.8	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. Journal of Geophysical Research, 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. Journal of Applied Meteorology and Climatology, 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. Journal of Meteorological Research, 2019, 33, 501-518.	2.4	8
56	Optimization and uncertainty estimates of WMO regression models for the systematic bias adjustment of NLDAS precipitation in the United States. Journal of Geophysical Research, 2006, 111, .	3.3	7
57	Impacts of systematic precipitation bias on simulations of water and energy balances in Northwest America. Advances in Atmospheric Sciences, 2007, 24, 739-749.	4.3	7
58	Incorporating remote sensing-based ET estimates into the Community Land Model version 4.5. Hydrology and Earth System Sciences, 2017, 21, 3557-3577.	4.9	7
59	Optimal parameter and uncertainty estimation of a land surface model: Sensitivity to parameter ranges and model complexities. Advances in Atmospheric Sciences, 2005, 22, 142-157.	4.3	3
60	EFFECT OF FORCING DATA ERRORS ON CALIBRATION AND UNCERTAINTY ESTIMATES OF THE CHASM MODEL: A MULTI-DATASET STUDY. World Scientific Series on Asia-Pacific Weather and Climate, 2004, , 340-355.	0.2	2
61	Satellite Remote Sensing Drought Monitoring and Predictions over the Globe. , 2016, , 259-296.		1