Youlong Xia

List of Publications by Year
in descending order

61 papers	6,459 citations	101384 36 h-index	133063 59 g-index
61 all docs	61 docs citations	61 times ranked	6083 citing authors

#	Article	IF	Citations
1	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.	1.9	45
2	Comparison of Groundwater Storage Changes From GRACE Satellites With Monitoring and Modeling of Major U.S. Aquifers. Water Resources Research, 2020, 56, e2020WR027556.	1.7	73
3	A Bayesian Three-Cornered Hat (BTCH) Method: Improving the Terrestrial Evapotranspiration Estimation. Remote Sensing, 2020, 12, 878.	1.8	24
4	Quality Control and Evaluation of the Observed Daily Data in the North American Soil Moisture Database. Journal of Meteorological Research, 2019, 33, 501-518.	0.9	8
5	A monitoring and prediction system for compound dry and hot events. Environmental Research Letters, 2019, 14, 114034.	2.2	44
6	Evaluation of twelve evapotranspiration products from machine learning, remote sensing and land surface models over conterminous United States. Journal of Hydrology, 2019, 578, 124105.	2.3	92
7	Regional and Global Land Data Assimilation Systems: Innovations, Challenges, and Prospects. Journal of Meteorological Research, 2019, 33, 159-189.	0.9	63
8	Patterns of precipitation and soil moisture extremes in Texas, US: A complex network analysis. Advances in Water Resources, 2018, 112, 203-213.	1.7	32
9	Seasonal Drought Prediction: Advances, Challenges, and Future Prospects. Reviews of Geophysics, 2018, 56, 108-141.	9.0	323
10	Comprehensive Evaluation of the Variable Infiltration Capacity (VIC) Model in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2018, 19, 1853-1879.	0.7	15
11	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.	1.2	141
12	A multivariate approach for statistical assessments of compound extremes. Journal of Hydrology, 2018, 565, 87-94.	2.3	44
13	An Overview of Drought Monitoring and Prediction Systems at Regional and Global Scales. Bulletin of the American Meteorological Society, 2017, 98, 1879-1896.	1.7	96
14	Toward a categorical drought prediction system based on U.S. Drought Monitor (USDM) and climate forecast. Journal of Hydrology, 2017, 551, 300-305.	2.3	21
15	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.	0.7	61
16	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.	1.2	92
17	Similarity Assessment of Land Surface Model Outputs in the North American Land Data Assimilation System. Water Resources Research, 2017, 53, 8941-8965.	1.7	34
18	Incorporating remote sensing-based ET estimates into the Community Land Model version 4.5. Hydrology and Earth System Sciences, 2017, 21, 3557-3577.	1.9	7

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19	Basin‐scale assessment of the land surface water budget in the National Centers for Environmental Prediction operational and research NLDAS‐2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2750-2779.	1.2	35
20	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2016, 17, 1951-1972.	0.7	137
21	Benchmarking NLDAS-2 Soil Moisture and Evapotranspiration to Separate Uncertainty Contributions. Journal of Hydrometeorology, 2016, 17, 745-759.	0.7	82
22	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.	1.7	56
23	Probabilistic prediction of hydrologic drought using a conditional probability approach based on the meta-Gaussian model. Journal of Hydrology, 2016, 542, 772-780.	2.3	59
24	Basin‐scale assessment of the land surface energy budget in the National Centers for Environmental Prediction operational and research NLDAS‐2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 196-220.	1.2	16
25	A Statistical Method for Categorical Drought Prediction Based on NLDAS-2. Journal of Applied Meteorology and Climatology, 2016, 55, 1049-1061.	0.6	27
26	Probabilistic drought characterization in the categorical form using ordinal regression. Journal of Hydrology, 2016, 535, 331-339.	2.3	16
27	Satellite Remote Sensing Drought Monitoring and Predictions over the Globe. , 2016, , 259-296.		1
28	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.	1.3	224
29	Improved NLDAS‐2 Noah‐simulated hydrometeorological products with an interim run. Hydrological Processes, 2015, 29, 780-792.	1.1	21
30	Comparison of NLDAS-2 Simulated and NASMD Observed Daily Soil Moisture. Part I: Comparison and Analysis. Journal of Hydrometeorology, 2015, 16, 1962-1980.	0.7	77
31	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.	0.7	27
32	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.	0.6	23
33	Evaluation of NLDAS‐2 evapotranspiration against tower flux site observations. Hydrological Processes, 2015, 29, 1757-1771.	1.1	49
34	Assimilation of Remotely Sensed Soil Moisture and Snow Depth Retrievals for Drought Estimation. Journal of Hydrometeorology, 2014, 15, 2446-2469.	0.7	167
35	Uncertainties, Correlations, and Optimal Blends of Drought Indices from the NLDAS Multiple Land Surface Model Ensemble. Journal of Hydrometeorology, 2014, 15, 1636-1650.	0.7	37
36	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.	1.2	69

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37	Evaluation of multi-model simulated soil moisture in NLDAS-2. Journal of Hydrology, 2014, 512, 107-125.	2.3	163
38	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.	1.2	127
39	Improvement of the Noah land surface model for warm season processes: evaluation of water and energy flux simulation. Hydrological Processes, 2013, 27, 297-303.	1.1	59
40	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.	0.6	49
41	Overview of the North American Land Data Assimilation System (NLDAS). , 2013, , 337-377.		9
42	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
43	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
44	Results of the DMIP 2 Oklahoma experiments. Journal of Hydrology, 2012, 418-419, 17-48.	2.3	97
45	Comparative analysis of relationships between NLDAS‒2 forcings and model outputs. Hydrological Processes, 2012, 26, 467-474.	1.1	78
46	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
47	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
48	Drought Indices Based on the Climate Forecast System Reanalysis and Ensemble NLDAS. Journal of Hydrometeorology, 2011, 12, 181-205.	0.7	70
49	Noah LSM Snow Model Diagnostics and Enhancements. Journal of Hydrometeorology, 2010, 11, 721-738.	0.7	137
50	Impacts of systematic precipitation bias on simulations of water and energy balances in Northwest America. Advances in Atmospheric Sciences, 2007, 24, 739-749.	1.9	7
51	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
52	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.	1.9	3
53	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
54	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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55	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
56	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
57	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
58	Simulation of high-latitude hydrological processes in the Torneâ€"Kalix basin: PILPS Phase 2(e). Global and Planetary Change, 2003, 38, 1-30.	1.6	194
59	Forest climatology: estimation and use of daily climatological data for Bavaria, Germany. Agricultural and Forest Meteorology, 2001, 106, 87-103.	1.9	37
60	Forest climatology: reconstruction of mean climatological data for Bavaria, Germany. Agricultural and Forest Meteorology, 1999, 96, 117-129.	1.9	14
61	Forest climatology: estimation of missing values for Bavaria, Germany. Agricultural and Forest Meteorology, 1999, 96, 131-144.	1.9	99