Xu Liang

List of Publications by Year
in descending order

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66	6,806	218592	138417
papers	citations	26 h-index	58 g-index

71	71	71	4963
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A simple hydrologically based model of land surface water and energy fluxes for general circulation models. Journal of Geophysical Research, 1994, 99, 14415.	3.3	3,018
2	Surface soil moisture parameterization of the VIC-2L model: Evaluation and modification. Global and Planetary Change, 1996, 13, 195-206.	1.6	750
3	Streamflow simulation for continental-scale river basins. Water Resources Research, 1997, 33, 711-724.	1.7	400
4	One-dimensional statistical dynamic representation of subgrid spatial variability of precipitation in the two-layer variable infiltration capacity model. Journal of Geophysical Research, 1996, 101, 21403-21422.	3.3	379
5	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) Redâ€“Arkansas River basin experiment:. Global and Planetary Change, 1998, 19, 115-135.	1.6	265
6	A new parameterization for surface and groundwater interactions and its impact on water budgets with the variable infiltration capacity (VIC) land surface model. Journal of Geophysical Research, 2003, 108, .	3.3	198
7	A new surface runoff parameterization with subgrid-scale soil heterogeneity for land surface models. Advances in Water Resources, 2001, 24, 1173-1193.	1.7	190
8	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Redâ€“Arkansas River basin experiment:. Global and Planetary Change, 1998, 19, 161-179.	1.6	154
9	HYDROLOGICAL MODELING OF CONTINENTAL-SCALE BASINS. Annual Review of Earth and Planetary Sciences, 1997, 25, 279-300.	4.6	137
10	Modeling ground heat flux in land surface parameterization schemes. Journal of Geophysical Research, 1999, 104, 9581-9600.	3.3	97
11	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. Global and Planetary Change, 1998, 19, 137-159.	1.6	82
12	Assessment of the effects of spatial resolutions on daily water flux simulations. Journal of Hydrology, 2004, 298, 287-310.	2.3	76
13	Climateâ€“soilâ€“vegetation control on groundwater table dynamics and its feedbacks in a climate model. Climate Dynamics, 2011, 36, 57-81.	1.7	67
14	On the assessment of the impact of reducing parameters and identification of parameter uncertainties for a hydrologic model with applications to ungauged basins. Journal of Hydrology, 2006, 320, 37-61.	2.3	66
15	Important factors in landâ€“atmosphere interactions: surface runoff generations and interactions between surface and groundwater. Global and Planetary Change, 2003, 38, 101-114.	1.6	62
16	Intercomparison of land-surface parameterization schemes: sensitivity of surface energy and water fluxes to model parameters. Journal of Hydrology, 2003, 279, 182-209.	2.3	57
17	Impacts of different precipitation data sources on water budgets. Journal of Hydrology, 2004, 298, 311-334.	2.3	51
18	Optimal multiscale Kalman filter for assimilation of near-surface soil moisture into land surface models. Journal of Geophysical Research, 2004, 109, .	3.3	41

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19	Sap Flow Sensors: Construction, Quality Control and Comparison. Sensors, 2012, 12, 954-971.	2.1	41
20	An application of the VIC-3L land surface model and remote sensing data in simulating streamflow for the Hanjiang River basin. Canadian Journal of Remote Sensing, 2004, 30, 680-690.	1.1	38
21	Improving signal prediction performance of neural networks through multiresolution learning approach. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 341-352.	5.5	37
22	Estimation of the ARNO model baseflow parameters using daily streamflow data. Journal of Hydrology, 1999, 222, 37-54.	2.3	30
23	An assessment of the VIC-3L hydrological model for the Yangtze River basin based on remote sensing: a case study of the Baohe River basin. Canadian Journal of Remote Sensing, 2004, 30, 840-853.	1.1	30
24	A transferability study of model parameters for the variable infiltration capacity land surface scheme. Journal of Geophysical Research, 2003, 108, .	3.3	29
25	Modeling vadose zone liquid water fluxes: Infiltration, runoff, drainage, interflow. Global and Planetary Change, 1996, 13, 57-71.	1.6	28
26	Hydroclimatic variability and predictability: a survey of recent research. Hydrology and Earth System Sciences, 2017, 21, 3777-3798.	1.9	28
27	VIC+ for waterâ€limited conditions: A study of biological and hydrological processes and their interactions in soilâ€plantâ€atmosphere continuum. Water Resources Research, 2013, 49, 7711-7732.	1.7	25
28	Design of an integrated data retrieval, analysis, and visualization system: Application in the hydrology domain. Environmental Modelling and Software, 2006, 21, 1722-1740.	1.9	23
29	Analysis of Power Characteristics for Sap Flow, Soil Moisture, and Soil Water Potential Sensors in Wireless Sensor Networking Systems. IEEE Sensors Journal, 2012, 12, 1933-1945.	2.4	21
30	A study of long-term WSN deployment for environmental monitoring. , 2013, , .		21
31	Impacts of spatial resolutions and data quality on soil moisture data assimilation. Journal of Geophysical Research, 2008, 113, .	3.3	20
32	A new multiscale routing framework and its evaluation for land surface modeling applications. Water Resources Research, 2012, 48, .	1.7	19
33	Towards Long-Term Multi-Hop WSN Deployments for Environmental Monitoring: An Experimental Network Evaluation. Journal of Sensor and Actuator Networks, 2014, 3, 297-330.	2.3	19
34	Plant transpiration and groundwater dynamics in waterâ€limited climates: Impacts of hydraulic redistribution. Water Resources Research, 2016, 52, 4416-4437.	1.7	18
35	A new multiscale flow network generation scheme for land surface models. Geophysical Research Letters, 2004, 31, .	1.5	16
36	Analysis of Spatial Similarities Between NEXRAD and NLDAS Precipitation Data Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 371-385.	2.3	15

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37	A Generalized Subsurface Flow Parameterization Considering Subgrid Spatial Variability of Recharge and Topography. Journal of Hydrometeorology, 2008, 9, 1151-1171.	0.7	14
38	Feasibility of Harvesting Solar Energy for Self-Powered Environmental Wireless Sensor Nodes. Electronics (Switzerland), 2020, 9, 2058.	1.8	14
39	Multi-resolution calibration methodology for hydrologic models: Application to a sub-humid catchment. Water Science and Application, 2003, , 197-211.	0.3	13
40	How much improvement can precipitation data fusion achieve with a Multiscale Kalman Smootherâ€based framework?. Water Resources Research, 2011, 47, .	1.7	13
41	An Experimental Study of WSN Power Efficiency: MICAz Networks with XMesh. International Journal of Distributed Sensor Networks, 2012, 8, 358238.	1.3	13
42	A novel approach to infer streamflow signals for ungauged basins. Advances in Water Resources, 2010, 33, 372-386.	1.7	12
43	Hybridizing Bayesian and variational data assimilation for high-resolution hydrologic forecasting. Hydrology and Earth System Sciences, 2018, 22, 5759-5779.	1.9	12
44	An open-data open-model framework for hydrological modelsâ€™ integration, evaluation and application. Environmental Modelling and Software, 2020, 126, 104622.	1.9	12
45	Acid rock drainage passive remediation: Potential use of alkaline clay, optimal mixing ratio and long-term impacts. Science of the Total Environment, 2017, 576, 572-585.	3.9	11
46	A Networked Sensor System for the Analysis of Plot-Scale Hydrology. Sensors, 2017, 17, 636.	2.1	11
47	Acid rock drainage passive remediation using alkaline clay: Hydro-geochemical study and impacts of vegetation and sand on remediation. Science of the Total Environment, 2018, 637-638, 1262-1278.	3.9	10
48	A downscaling framework for L band radiobrightness temperature imagery. Journal of Geophysical Research, 2003, 108, .	3.3	9
49	Application of the MacCormack scheme to overland flow routing for high-spatial resolution distributed hydrological model. Journal of Hydrology, 2018, 558, 421-431.	2.3	9
50	A Calibration Framework for Highâ€Resolution Hydrological Models Using a Multiresolution and Heterogeneous Strategy. Water Resources Research, 2020, 56, e2019WR026541.	1.7	9
51	Applications of data mining in hydrology. , 0, , .		6
52	A stochastic modeling approach for characterizing the spatial structure of L band radiobrightness temperature imagery. Journal of Geophysical Research, 2003, 108, .	3.3	6
53	A labeled-tree approach to semantic and structural data interoperability applied in hydrology domain. Information Sciences, 2010, 180, 5008-5028.	4.0	6
54	Poster abstract: ASWP. , 2013, , .		5

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55	MobileDeluge: Mobile Code Dissemination for Wireless Sensor Networks. , 2014, , .		5
56	Open data and model integration through generic model agent toolkit in CyberWater framework. Environmental Modelling and Software, 2022, 152, 105384.	1.9	4
57	Non-stationarity of the signal and noise characteristics of seasonal precipitation anomalies. Climate Dynamics, 2011, 36, 739-752.	1.7	3
58	MobileDeluge: A Novel Mobile Code Dissemination Tool for WSNs. , 2014, , .		2
59	Network Dynamics Analysis and Benchmarking on an Outdoor Heterogeneous Wireless Sensor Network. , 2018, , .		2
60	A hydro-thermal-geochemical modeling framework to simulate reactive transport in a waste coal area under amended and non-amended conditions. Heliyon, 2020, 6, e02803.	1.4	2
61	EXPERIMENTAL INVESTIGATION OF THE SCOURING OF QUAKE DAMS DURING DAM-BREAK. Journal of Earthquake and Tsunami, 2011, 05, 429-444.	0.7	1
62	An Introduction to Multi-scale Kalman Smoother-Based Framework and Its Application to Data Assimilation. , 2013, , 275-334.		1
63	A parameter estimation framework for Multiscale Kalman Smoother algorithm in precipitation data fusion. Water Resources Research, 2014, 50, 8675-8693.	1.7	1
64	Efficient Data Assimilation in High-Dimensional Hydrologic Modeling through Optimal Spatial Clustering. , 2019, , .		1
65	Selection of Multiple Donor Gauges via Graphical Lasso for Estimation of Daily Streamflow Time Series. Water Resources Research, 2021, 57, e2020WR028936.	1.7	1
66	Smart Phone Based Mobile Code Dissemination for Heterogeneous Wireless Sensor Networks. , 2019, , .		0