

Xu Liang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

5,681

citations

25

h-index

71

g-index

71

ext. papers

6,184

ext. citations

5

avg, IF

5.24

L-index

#	Paper	IF	Citations
66	Open data and model integration through generic model agent toolkit in CyberWater framework. <i>Environmental Modelling and Software</i> , 2022 , 105384	5.2	0
65	Selection of Multiple Donor Gauges via Graphical Lasso for Estimation of Daily Streamflow Time Series. <i>Water Resources Research</i> , 2021 , 57, e2020WR028936	5.4	1
64	A Calibration Framework for High-Resolution Hydrological Models Using a Multiresolution and Heterogeneous Strategy. <i>Water Resources Research</i> , 2020 , 56, e2019WR026541	5.4	4
63	A hydro-thermal-geochemical modeling framework to simulate reactive transport in a waste coal area under amended and non-amended conditions. <i>Heliyon</i> , 2020 , 6, e02803	3.6	1
62	An open-data open-model framework for hydrological models Integration, evaluation and application. <i>Environmental Modelling and Software</i> , 2020 , 126, 104622	5.2	5
61	Feasibility of Harvesting Solar Energy for Self-Powered Environmental Wireless Sensor Nodes. <i>Electronics (Switzerland)</i> , 2020 , 9, 2058	2.6	5
60	Efficient Data Assimilation in High-Dimensional Hydrologic Modeling through Optimal Spatial Clustering 2019 ,		1
59	Application of the MacCormack scheme to overland flow routing for high-spatial resolution distributed hydrological model. <i>Journal of Hydrology</i> , 2018 , 558, 421-431	6	8
58	Hybridizing Bayesian and variational data assimilation for high-resolution hydrologic forecasting. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5759-5779	5.5	8
57	Network Dynamics Analysis and Benchmarking on an Outdoor Heterogeneous Wireless Sensor Network 2018 ,		2
56	Acid rock drainage passive remediation using alkaline clay: Hydro-geochemical study and impacts of vegetation and sand on remediation. <i>Science of the Total Environment</i> , 2018 , 637-638, 1262-1278	10.2	7
55	Acid rock drainage passive remediation: Potential use of alkaline clay, optimal mixing ratio and long-term impacts. <i>Science of the Total Environment</i> , 2017 , 576, 572-585	10.2	8
54	A Networked Sensor System for the Analysis of Plot-Scale Hydrology. <i>Sensors</i> , 2017 , 17,	3.8	7
53	Hydroclimatic Variability and Predictability: A Survey of Recent Research. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3777-3798	5.5	21
52	Plant transpiration and groundwater dynamics in water-limited climates: Impacts of hydraulic redistribution. <i>Water Resources Research</i> , 2016 , 52, 4416-4437	5.4	11
51	A parameter estimation framework for Multiscale Kalman Smoother algorithm in precipitation data fusion. <i>Water Resources Research</i> , 2014 , 50, 8675-8693	5.4	1
50	Towards Long-Term Multi-Hop WSN Deployments for Environmental Monitoring: An Experimental Network Evaluation. <i>Journal of Sensor and Actuator Networks</i> , 2014 , 3, 297-330	3.8	15

49	MobileDeluge: A Novel Mobile Code Dissemination Tool for WSNs 2014 ,		1
48	MobileDeluge: Mobile Code Dissemination for Wireless Sensor Networks 2014 ,		4
47	Poster abstract: ASWP 2013 ,		4
46	A study of long-term WSN deployment for environmental monitoring 2013 ,		15
45	An Introduction to Multi-scale Kalman Smoother-Based Framework and Its Application to Data Assimilation 2013 , 275-334		0
44	VIC+ for water-limited conditions: A study of biological and hydrological processes and their interactions in soil-plant-atmosphere continuum. <i>Water Resources Research</i> , 2013 , 49, 7711-7732	5-4	22
43	Analysis of Power Characteristics for Sap Flow, Soil Moisture, and Soil Water Potential Sensors in Wireless Sensor Networking Systems. <i>IEEE Sensors Journal</i> , 2012 , 12, 1933-1945	4	17
42	A new multiscale routing framework and its evaluation for land surface modeling applications. <i>Water Resources Research</i> , 2012 , 48,	5-4	16
41	Sap flow sensors: construction, quality control and comparison. <i>Sensors</i> , 2012 , 12, 954-71	3.8	30
40	An Experimental Study of WSN Power Efficiency: MICAz Networks with XMesh. <i>International Journal of Distributed Sensor Networks</i> , 2012 , 8, 358238	1.7	8
39	How much improvement can precipitation data fusion achieve with a Multiscale Kalman Smoother-based framework?. <i>Water Resources Research</i> , 2011 , 47,	5-4	8
38	ClimateSoilVegetation control on groundwater table dynamics and its feedbacks in a climate model. <i>Climate Dynamics</i> , 2011 , 36, 57-81	4-2	57
37	Non-stationarity of the signal and noise characteristics of seasonal precipitation anomalies. <i>Climate Dynamics</i> , 2011 , 36, 739-752	4-2	3
36	EXPERIMENTAL INVESTIGATION OF THE SCOURING OF QUAKE DAMS DURING DAM-BREAK. <i>Journal of Earthquake and Tsunami</i> , 2011 , 05, 429-444	1.1	1
35	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 371-385	4-7	11
34	A novel approach to infer streamflow signals for ungauged basins. <i>Advances in Water Resources</i> , 2010 , 33, 372-386	4-7	8
33	A labeled-tree approach to semantic and structural data interoperability applied in hydrology domain. <i>Information Sciences</i> , 2010 , 180, 5008-5028	7-7	6
32	Impacts of spatial resolutions and data quality on soil moisture data assimilation. <i>Journal of Geophysical Research</i> , 2008 , 113,		17

31	A Generalized Subsurface Flow Parameterization Considering Subgrid Spatial Variability of Recharge and Topography. <i>Journal of Hydrometeorology</i> , 2008 , 9, 1151-1171	3.7	14
30	Improving signal prediction performance of neural networks through multiresolution learning approach. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2006 , 36, 341-52		28
29	On the assessment of the impact of reducing parameters and identification of parameter uncertainties for a hydrologic model with applications to ungauged basins. <i>Journal of Hydrology</i> , 2006 , 320, 37-61	6	56
28	Design of an integrated data retrieval, analysis, and visualization system: Application in the hydrology domain. <i>Environmental Modelling and Software</i> , 2006 , 21, 1722-1740	5.2	19
27	An application of the VIC-3L land surface model and remote sensing data in simulating streamflow for the Hanjiang River basin. <i>Canadian Journal of Remote Sensing</i> , 2004 , 30, 680-690	1.8	37
26	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. <i>Canadian Journal of Remote Sensing</i> , 2004 , 30, 840-853	1.8	25
25	A new multiscale flow network generation scheme for land surface models. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	15
24	Optimal multiscale Kalman filter for assimilation of near-surface soil moisture into land surface models. <i>Journal of Geophysical Research</i> , 2004 , 109,		36
23	Assessment of the effects of spatial resolutions on daily water flux simulations. <i>Journal of Hydrology</i> , 2004 , 298, 287-310	6	67
22	Impacts of different precipitation data sources on water budgets. <i>Journal of Hydrology</i> , 2004 , 298, 311-364		34
21	Multi-resolution calibration methodology for hydrologic models: Application to a sub-humid catchment. <i>Water Science and Application</i> , 2003 , 197-211		10
20	A new parameterization for surface and groundwater interactions and its impact on water budgets with the variable infiltration capacity (VIC) land surface model. <i>Journal of Geophysical Research</i> , 2003 , 108,		176
19	A stochastic modeling approach for characterizing the spatial structure of L band radiobrightness temperature imagery. <i>Journal of Geophysical Research</i> , 2003 , 108,		4
18	A downscaling framework for L band radiobrightness temperature imagery. <i>Journal of Geophysical Research</i> , 2003 , 108,		9
17	A transferability study of model parameters for the variable infiltration capacity land surface scheme. <i>Journal of Geophysical Research</i> , 2003 , 108,		25
16	Intercomparison of land-surface parameterization schemes: sensitivity of surface energy and water fluxes to model parameters. <i>Journal of Hydrology</i> , 2003 , 279, 182-209	6	54
15	Important factors in land-atmosphere interactions: surface runoff generations and interactions between surface and groundwater. <i>Global and Planetary Change</i> , 2003 , 38, 101-114	4.2	55
14	A new surface runoff parameterization with subgrid-scale soil heterogeneity for land surface models. <i>Advances in Water Resources</i> , 2001 , 24, 1173-1193	4.7	153

13	Estimation of the ARNO model baseflow parameters using daily streamflow data. <i>Journal of Hydrology</i> , 1999 , 222, 37-54	6	24
12	Modeling ground heat flux in land surface parameterization schemes. <i>Journal of Geophysical Research</i> , 1999 , 104, 9581-9600		80
11	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) Red-Arkansas River basin experiment:: 1. Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 1998 , 19, 115-135	4.2	243
10	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998 , 19, 137-159	4.2	79
9	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998 , 19, 161-179	4.2	137
8	HYDROLOGICAL MODELING OF CONTINENTAL-SCALE BASINS. <i>Annual Review of Earth and Planetary Sciences</i> , 1997 , 25, 279-300	15.3	119
7	Streamflow simulation for continental-scale river basins. <i>Water Resources Research</i> , 1997 , 33, 711-724	5.4	334
6	Modeling vadose zone liquid water fluxes: Infiltration, runoff, drainage, interflow. <i>Global and Planetary Change</i> , 1996 , 13, 57-71	4.2	26
5	Surface soil moisture parameterization of the VIC-2L model: Evaluation and modification. <i>Global and Planetary Change</i> , 1996 , 13, 195-206	4.2	635
4	One-dimensional statistical dynamic representation of subgrid spatial variability of precipitation in the two-layer variable infiltration capacity model. <i>Journal of Geophysical Research</i> , 1996 , 101, 21403-21422		325
3	A simple hydrologically based model of land surface water and energy fluxes for general circulation models. <i>Journal of Geophysical Research</i> , 1994 , 99, 14415		2485
2	Applications of data mining in hydrology		3
1	Land Surface Modeling533		