

Hong-Yi Li

List of Publications by Citations

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78
papers

2,708
citations

28
h-index

51
g-index

88
ext. papers

3,460
ext. citations

6.4
avg, IF

4.98
L-index

#	Paper	IF	Citations
78	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4245-4287	7.1	288
77	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2089-2129	7.1	217
76	Real-time global flood estimation using satellite-based precipitation and a coupled land surface and routing model. <i>Water Resources Research</i> , 2014 , 50, 2693-2717	5.4	212
75	A Physically Based Runoff Routing Model for Land Surface and Earth System Models. <i>Journal of Hydrometeorology</i> , 2013 , 14, 808-828	3.7	137
74	21st century United States emissions mitigation could increase water stress more than the climate change it is mitigating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 10635-40	11.5	104
73	Investigating the nexus of climate, energy, water, and land at decision-relevant scales: the Platform for Regional Integrated Modeling and Analysis (PRIMA). <i>Climatic Change</i> , 2015 , 129, 573-588	4.5	98
72	Evaluating runoff simulations from the Community Land Model 4.0 using observations from flux towers and a mountainous watershed. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		95
71	A new global river network database for macroscale hydrologic modeling. <i>Water Resources Research</i> , 2012 , 48,	5.4	93
70	A comprehensive view of global potential for hydro-generated electricity. <i>Energy and Environmental Science</i> , 2015 , 8, 2622-2633	35.4	89
69	On an improved sub-regional water resources management representation for integration into earth system models. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 3605-3622	5.5	83
68	Impacts of climate change, policy and Water-Energy-Food nexus on hydropower development. <i>Renewable Energy</i> , 2018 , 116, 827-834	8.1	71
67	Development of high resolution land surface parameters for the Community Land Model. <i>Geoscientific Model Development</i> , 2012 , 5, 1341-1362	6.3	65
66	Evaluating Global Streamflow Simulations by a Physically Based Routing Model Coupled with the Community Land Model. <i>Journal of Hydrometeorology</i> , 2015 , 16, 948-971	3.7	55
65	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2586-2614	3.7	54
64	Vulnerability of US thermoelectric power generation to climate change when incorporating state-level environmental regulations. <i>Nature Energy</i> , 2017 , 2,	62.3	51
63	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4095-4146	7.1	50
62	Dam Construction in Lancang-Mekong River Basin Could Mitigate Future Flood Risk From Warming-Induced Intensified Rainfall. <i>Geophysical Research Letters</i> , 2017 , 44, 10,378-10,386	4.9	48

61	Comparative diagnostic analysis of runoff generation processes in Oklahoma DMIP2 basins: The Blue River and the Illinois River. <i>Journal of Hydrology</i> , 2012 , 418-419, 90-109	6	47
60	One-way coupling of an integrated assessment model and a water resources model: evaluation and implications of future changes over the US Midwest. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 4555-4575	5.5	46
59	Panta Rhei 2013-2015: global perspectives on hydrology, society and change. <i>Hydrological Sciences Journal</i> , 2016 , 1-18	3.5	44
58	Dissolved nutrient retention dynamics in river networks: A modeling investigation of transient flows and scale effects. <i>Water Resources Research</i> , 2012 , 48,	5.4	38
57	Water and nutrient balances in a large tile-drained agricultural catchment: a distributed modeling study. <i>Hydrology and Earth System Sciences</i> , 2010 , 14, 2259-2275	5.5	37
56	Hydrological Drought in the Anthropocene: Impacts of Local Water Extraction and Reservoir Regulation in the U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,313-11,328	4.4	35
55	Effect of spatial heterogeneity of runoff generation mechanisms on the scaling behavior of event runoff responses in a natural river basin. <i>Water Resources Research</i> , 2011 , 47,	5.4	35
54	Model diagnostic analysis of seasonal switching of runoff generation mechanisms in the Blue River basin, Oklahoma. <i>Journal of Hydrology</i> , 2012 , 418-419, 136-149	6	33
53	Modeling surface water dynamics in the Amazon Basin using MOSART-Inundation-v1.0: Impacts of geomorphological parameters and river flow representation. <i>Geoscientific Model Development</i> , 2017 , 10, 1233-1259	6.3	33
52	Vegetation regulation on streamflow intra-annual variability through adaption to climate variations. <i>Geophysical Research Letters</i> , 2015 , 42, 10,307	4.9	31
51	Understanding Flood Seasonality and Its Temporal Shifts within the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2017 , 18, 1997-2009	3.7	29
50	Effects of spatially distributed sectoral water management on the redistribution of water resources in an integrated water model. <i>Water Resources Research</i> , 2017 , 53, 4253-4270	5.4	27
49	Functional approach to exploring climatic and landscape controls of runoff generation: 1. Behavioral constraints on runoff volume. <i>Water Resources Research</i> , 2014 , 50, 9300-9322	5.4	27
48	Links between flood frequency and annual water balance behaviors: A basis for similarity and regionalization. <i>Water Resources Research</i> , 2014 , 50, 937-953	5.4	25
47	Regionalization of subsurface stormflow parameters of hydrologic models: Derivation from regional analysis of streamflow recession curves. <i>Journal of Hydrology</i> , 2014 , 519, 670-682	6	23
46	A subbasin-based framework to represent land surface processes in an Earth system model. <i>Geoscientific Model Development</i> , 2014 , 7, 947-963	6.3	23
45	Historical and future drought in Bangladesh using copula-based bivariate regional frequency analysis. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 855-871	3	23
44	A New Global Storage-Area-Depth Data Set for Modeling Reservoirs in Land Surface and Earth System Models. <i>Water Resources Research</i> , 2018 , 54, 10,372	5.4	23

43	Nonlinear Filtering Effects of Reservoirs on Flood Frequency Curves at the Regional Scale. <i>Water Resources Research</i> , 2017 , 53, 8277-8292	5.4	21
42	Modeling stream temperature in the Anthropocene: An earth system modeling approach. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 1661-1679	7.1	21
41	Attributing runoff changes to climate variability and human activities: uncertainty analysis using four monthly water balance models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 251-269	3.5	19
40	Modeling Sediment Yield in Land Surface and Earth System Models: Model Comparison, Development, and Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 2192-2213	7.1	19
39	A substantial role of soil erosion in the land carbon sink and its future changes. <i>Global Change Biology</i> , 2020 , 26, 2642	11.4	16
38	Sensitivity of drought resilience-vulnerability- exposure to hydrologic ratios in contiguous United States. <i>Journal of Hydrology</i> , 2018 , 564, 294-306	6	15
37	Enhancing the representation of subgrid land surface characteristics in land surface models. <i>Geoscientific Model Development</i> , 2013 , 6, 1609-1622	6.3	14
36	A hydrological emulator for global applications [HE v1.0.0]. <i>Geoscientific Model Development</i> , 2018 , 11, 1077-1092	6.3	13
35	Regionalization of subsurface stormflow parameters of hydrologic models: Up-scaling from physically based numerical simulations at hillslope scale. <i>Journal of Hydrology</i> , 2014 , 519, 683-698	6	12
34	A Holistic View of Water Management Impacts on Future Droughts: A Global Multimodel Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5947-5972	4.4	12
33	Scalability of grid- and subbasin-based land surface modeling approaches for hydrologic simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3166-3184	4.4	11
32	A Global Data Analysis for Representing Sediment and Particulate Organic Carbon Yield in Earth System Models. <i>Water Resources Research</i> , 2017 , 53, 10674-10700	5.4	11
31	Simulations of ecosystem hydrological processes using a unified multi-scale model. <i>Ecological Modelling</i> , 2015 , 296, 93-101	3	10
30	Improving Land Surface Temperature Simulation in CoLM Over the Tibetan Plateau Through Fractional Vegetation Cover Derived From a Remotely Sensed Clumping Index and Model-Simulated Leaf Area Index. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2620-2642	4.4	9
29	Global Irrigation Characteristics and Effects Simulated by Fully Coupled Land Surface, River, and Water Management Models in E3SM. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002069	7.1	8
28	A generic biogeochemical module for Earth system models: Next Generation BioGeoChemical Module (NGBGC), version 1.0. <i>Geoscientific Model Development</i> , 2013 , 6, 1977-1988	6.3	7
27	A Multilayer Reservoir Thermal Stratification Module for Earth System Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3265-3283	7.1	6
26	Searching for an Optimized Single-objective Function Matching Multiple Objectives with Automatic Calibration of Hydrological Models. <i>Chinese Geographical Science</i> , 2019 , 29, 934-948	2.9	6

25	Flood Inundation Generation Mechanisms and Their Changes in 1953-2004 in Global Major River Basins. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 11672-11692	4.4	6
24	Functional approach to exploring climatic and landscape controls on runoff generation: 2 Timing of runoff storm response. <i>Water Resources Research</i> , 2014 , 50, 9323-9342	5.4	6
23	On the variable effects of climate change on Pacific salmon. <i>Ecological Modelling</i> , 2019 , 397, 95-106	3	6
22	Identifying the dominant controls on macropore flow velocity in soils: A meta-analysis. <i>Journal of Hydrology</i> , 2018 , 567, 590-604	6	6
21	River Regulation Alleviates the Impacts of Climate Change on U.S. Thermoelectricity Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031618	4.4	5
20	Streamflow prediction in geopolitically ungauged basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , 2020 , 588, 125016	6	5
19	Interpretable tree-based ensemble model for predicting beach water quality.. <i>Water Research</i> , 2022 , 211, 118078	12.5	5
18	A subbasin-based framework to represent land surface processes in an Earth System Model		5
17	Hierarchical mixture of experts and diagnostic modeling approach to reduce hydrologic model structural uncertainty. <i>Water Resources Research</i> , 2016 , 52, 2551-2570	5.4	5
16	Steady state estimation of soil organic carbon using satellite-derived canopy leaf area index. <i>Journal of Advances in Modeling Earth Systems</i> , 2014 , 6, 1049-1064	7.1	4
15	Water quality: the missing dimension of water in the water-energy-food nexus. <i>Hydrological Sciences Journal</i> , 2021 , 66, 745-758	3.5	4
14	Aquatic Carbon-Nutrient Dynamics as Emergent Properties of Hydrological, Biogeochemical, and Ecological Interactions: Scientific Advances. <i>Water Resources Research</i> , 2018 , 54, 7138-7142	5.4	4
13	Examining the Food-Energy-Water-Environment Nexus in Transboundary River Basins through a Human Dimension Lens: Columbia River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 05021019	2.8	4
12	Effects of Groundwater Pumping on Ground Surface Temperature: A Regional Modeling Study in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031764	4.4	3
11	A Hydrological Emulator for Global Applications 2017 ,		3
10	A new large-scale suspended sediment model and its application over the United States. <i>Hydrology and Earth System Sciences</i> , 2022 , 26, 665-688	5.5	3
9	Uncertainty propagation in coupled hydrological models using winding stairs and null-space Monte Carlo methods. <i>Journal of Hydrology</i> , 2020 , 589, 125341	6	3
8	Increased extreme rains intensify erosional nitrogen and phosphorus fluxes to the northern Gulf of Mexico in recent decades. <i>Environmental Research Letters</i> , 2021 , 16, 054080	6.2	3

7	Representing Global Soil Erosion and Sediment Flux in Earth System Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2022 , 14, e2021MS002756	7.1	2
6	Advances in hexagon mesh-based flow direction modeling. <i>Advances in Water Resources</i> , 2022 , 160, 104099	4.7	2
5	Horton Index: Conceptual Framework for Exploring Multi-Scale Links Between Catchment Water Balance and Vegetation Dynamics. <i>Water Resources Research</i> , 2021 , 57, e2020WR029343	5.4	1
4	Riverine Carbon Cycling Over the Past Century in the Mid-Atlantic Region of the United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG005968	3.7	1
3	Global Flood Models. <i>Geophysical Monograph Series</i> , 2021 , 181-200	1.1	1
2	HyRiver: Hydroclimate Data Retriever. <i>Journal of Open Source Software</i> , 2021 , 6, 3175	5.2	0
1	Median bed-material sediment particle size across rivers in the contiguous US. <i>Earth System Science Data</i> , 2022 , 14, 929-942	10.5	0