

Zong-Liang Yang

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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.

187
papers

15,533
citations

56
h-index

122
g-index

214
ext. papers

17,556
ext. citations

5.1
avg. IF

6.37
L-index

#	Paper	IF	Citations
187	The Community Climate System Model Version 4. <i>Journal of Climate</i> , 2011 , 24, 4973-4991	4.4	2037
186	The community Noah land surface model with multiparameterization options (Noah-MP): 1. Model description and evaluation with local-scale measurements. <i>Journal of Geophysical Research</i> , 2011 , 116,		1106
185	The Common Land Model. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 1013-1024	6.1	897
184	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011 , 3,	7.1	581
183	Improvements to the Community Land Model and their impact on the hydrological cycle. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		568
182	The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model*. <i>Journal of Climate</i> , 2002 , 15, 3123-3149	4.4	499
181	Development of a simple groundwater model for use in climate models and evaluation with Gravity Recovery and Climate Experiment data. <i>Journal of Geophysical Research</i> , 2007 , 112,		370
180	The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins. <i>Journal of Geophysical Research</i> , 2011 , 116,		329
179	Effects of Frozen Soil on Snowmelt Runoff and Soil Water Storage at a Continental Scale. <i>Journal of Hydrometeorology</i> , 2006 , 7, 937-952	3.7	315
178	A simple TOPMODEL-based runoff parameterization (SIMTOP) for use in global climate models. <i>Journal of Geophysical Research</i> , 2005 , 110,		303
177	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. <i>Journal of Climate</i> , 2006 , 19, 2302-2324	4.4	296
176	The Project for Intercomparison of Land-surface Parameterization Schemes. <i>Bulletin of the American Meteorological Society</i> , 1993 , 74, 1335-1349	6.1	278
175	Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. <i>Journal of Climate</i> , 1997 , 10, 1194-1215	4.4	271
174	Regional scale flood modeling using NEXRAD rainfall, GIS, and HEC-HMS/RAS: a case study for the San Antonio River Basin Summer 2002 storm event. <i>Journal of Environmental Management</i> , 2005 , 75, 325-36	7.9	262
173	The Representation of Snow in Land Surface Schemes: Results from PILPS 2(d). <i>Journal of Hydrometeorology</i> , 2001 , 2, 7-25	3.7	259
172	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011 , 3, n/a-n/a	7.1	258
171	Assessment of three dynamical climate downscaling methods using the Weather Research and Forecasting (WRF) model. <i>Journal of Geophysical Research</i> , 2008 , 113,		257

170	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) RedArkansas River basin experiment:: 1. Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 1998 , 19, 115-135	4.2	243
169	Validation of the Snow Submodel of the BiosphereAtmosphere Transfer Scheme with Russian Snow Cover and Meteorological Observational Data. <i>Journal of Climate</i> , 1997 , 10, 353-373	4.4	221
168	Use of FLUXNET in the Community Land Model development. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		196
167	Simulation of high-latitude hydrological processes in the TorneKalix basin: PILPS Phase 2(e): 1: Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 2003 , 38, 1-30	4.2	177
166	Validation of the energy budget of an alpine snowpack simulated by several snow models (Snow MIP project). <i>Annals of Glaciology</i> , 2004 , 38, 150-158	2.5	176
165	The Rhne-Aggregation Land Surface Scheme Intercomparison Project: An Overview. <i>Journal of Climate</i> , 2004 , 17, 187-208	4.4	161
164	An observation-based formulation of snow cover fraction and its evaluation over large North American river basins. <i>Journal of Geophysical Research</i> , 2007 , 112,		147
163	Effects of vegetation canopy processes on snow surface energy and mass balances. <i>Journal of Geophysical Research</i> , 2004 , 109,		141
162	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) RedArkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998 , 19, 161-179	4.2	137
161	Effects of Frozen Soil on Soil Temperature, Spring Infiltration, and Runoff: Results from the PILPS 2(d) Experiment at Valdai, Russia. <i>Journal of Hydrometeorology</i> , 2003 , 4, 334-351	3.7	132
160	Simulations of a Boreal Grassland Hydrology at Valdai, Russia: PILPS Phase 2(d). <i>Monthly Weather Review</i> , 2000 , 128, 301-321	2.4	121
159	Sensitivity of regional climates to localized precipitation in global models. <i>Nature</i> , 1990 , 346, 734-737	50.4	121
158	River Network Routing on the NHDPlus Dataset. <i>Journal of Hydrometeorology</i> , 2011 , 12, 913-934	3.7	117
157	Quantifying parameter sensitivity, interaction, and transferability in hydrologically enhanced versions of the Noah land surface model over transition zones during the warm season. <i>Journal of Geophysical Research</i> , 2010 , 115,		111
156	An Improved Dynamical Downscaling Method with GCM Bias Corrections and Its Validation with 30 Years of Climate Simulations. <i>Journal of Climate</i> , 2012 , 25, 6271-6286	4.4	110
155	Preliminary study of spin-up processes in land surface models with the first stage data of Project for Intercomparison of Land Surface Parameterization Schemes Phase 1(a). <i>Journal of Geophysical Research</i> , 1995 , 100, 16553		106
154	Hydrological evaluation of the Noah-MP land surface model for the Mississippi River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 23-38	4.4	105
153	Assessment of simulated water balance from Noah, Noah-MP, CLM, and VIC over CONUS using the NLDAS test bed. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,751-13,770	4.4	101

152	Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , 2003 , 108,		100
151	Simulation of high latitude hydrological processes in the TorneÅalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003 , 38, 31-53	4.2	100
150	Sensitivity of the Modeled North American Monsoon Regional Climate to Convective Parameterization. <i>Monthly Weather Review</i> , 2002 , 130, 1282-1298	2.4	95
149	Impacts of vegetation and groundwater dynamics on warm season precipitation over the Central United States. <i>Journal of Geophysical Research</i> , 2009 , 114,		93
148	Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parametrization Schemes. <i>Climate Dynamics</i> , 1999 , 15, 673-684	4.2	92
147	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014 , 191, 33-50	5.8	81
146	The effect of groundwater interaction in North American regional climate simulations with WRF/Noah-MP. <i>Climatic Change</i> , 2015 , 129, 485-498	4.5	79
145	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
144	The Versatile Integrator of Surface and Atmosphere processes: Part 1. Model description. <i>Global and Planetary Change</i> , 2003 , 38, 175-189	4.2	78
143	Positive response of Indian summer rainfall to Middle East dust. <i>Geophysical Research Letters</i> , 2014 , 41, 4068-4074	4.9	76
142	Multisensor snow data assimilation at the continental scale: The value of Gravity Recovery and Climate Experiment terrestrial water storage information. <i>Journal of Geophysical Research</i> , 2010 , 115,		74
141	Predicted impacts of climate and land use change on surface ozone in the Houston, Texas, area. <i>Journal of Geophysical Research</i> , 2008 , 113,		73
140	Modeling seasonal snowpack evolution in the complex terrain and forested Colorado Headwaters region: A model intercomparison study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,795-13,819	4.4	69
139	Improving land-surface model hydrology: Is an explicit aquifer model better than a deeper soil profile?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	66
138	Impact of moisture flux convergence and soil moisture on precipitation: a case study for the southern United States with implications for the globe. <i>Climate Dynamics</i> , 2016 , 46, 467-481	4.2	64
137	Description of the Biosphere-Atmosphere Transfer Scheme (BATS) for the Soil Moisture Workshop and evaluation of its performance. <i>Global and Planetary Change</i> , 1996 , 13, 117-134	4.2	63
136	Comparative Analyses of Physically Based Snowmelt Models for Climate Simulations. <i>Journal of Climate</i> , 1999 , 12, 2643-2657	4.4	62
135	Consistent response of Indian summer monsoon to Middle East dust in observations and simulations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9897-9915	6.8	60

134	Analysis of transpiration results from the RICE and PILPS workshop. <i>Global and Planetary Change</i> , 1996 , 13, 73-88	4.2	60
133	Decadal Modulation of Precipitation Patterns over Eastern China by Sea Surface Temperature Anomalies. <i>Journal of Climate</i> , 2017 , 30, 7017-7033	4.4	59
132	A new dynamical downscaling approach with GCM bias corrections and spectral nudging. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 3063-3084	4.4	56
131	Effects of water table dynamics on regional climate: A case study over east Asian monsoon area. <i>Journal of Geophysical Research</i> , 2008 , 113,		55
130	Divergent effects of climate change on future groundwater availability in key mid-latitude aquifers. <i>Nature Communications</i> , 2020 , 11, 3710	17.4	53
129	Mapping erodibility in dust source regions based on geomorphology, meteorology, and remote sensing. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 1977-1994	3.8	52
128	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 111-127	5.8	49
127	Enhancing the estimation of continental-scale snow water equivalent by assimilating MODIS snow cover with the ensemble Kalman filter. <i>Journal of Geophysical Research</i> , 2008 , 113,		49
126	Future precipitation changes and their implications for tropical peatlands. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	49
125	Assimilation of MODIS snow cover through the Data Assimilation Research Testbed and the Community Land Model version 4. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7091-7103	4.4	48
124	RAPID applied to the SIM-France model. <i>Hydrological Processes</i> , 2011 , 25, 3412-3425	3.3	47
123	Assessing a land surface model's improvements with GRACE estimates. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	46
122	Seasonal Responses of Indian Summer Monsoon to Dust Aerosols in the Middle East, India, and China. <i>Journal of Climate</i> , 2016 , 29, 6329-6349	4.4	43
121	Evaluation of the Snow Simulations from the Community Land Model, Version 4 (CLM4). <i>Journal of Hydrometeorology</i> , 2016 , 17, 153-170	3.7	43
120	The scale-dependence of SMOS soil moisture accuracy and its improvement through land data assimilation in the central Tibetan Plateau. <i>Remote Sensing of Environment</i> , 2014 , 152, 345-355	13.2	43
119	Investigating diurnal and seasonal climatic response to land use and land cover change over monsoon Asia with the Community Earth System Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1137-1152	4.4	43
118	Retrieving snow mass from GRACE terrestrial water storage change with a land surface model. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	42
117	Missing pieces to modeling the Arctic-Boreal puzzle. <i>Environmental Research Letters</i> , 2018 , 13, 020202	6.2	39

116	The versatile integrator of surface atmospheric processes: Part 2: evaluation of three topography-based runoff schemes. <i>Global and Planetary Change</i> , 2003 , 38, 191-208	4.2	39
115	Evaluating Enhanced Hydrological Representations in Noah LSM over Transition Zones: Implications for Model Development. <i>Journal of Hydrometeorology</i> , 2009 , 10, 600-622	3.7	38
114	Elucidating Diverse Drought Characteristics from Two Meteorological Drought Indices (SPI and SPEI) in China. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1513-1530	3.7	37
113	Spatiotemporal Evaluation of Simulated Evapotranspiration and Streamflow over Texas Using the WRF-Hydro-RAPID Modeling Framework. <i>Journal of the American Water Resources Association</i> , 2018 , 54, 40-54	2.1	36
112	Impacts of data length on optimal parameter and uncertainty estimation of a land surface model. <i>Journal of Geophysical Research</i> , 2004 , 109,		35
111	Continental-Scale River Flow Modeling of the Mississippi River Basin Using High-Resolution NHDPlus Dataset. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 258-279	2.1	34
110	On the Sensitivity of the Precipitation Partitioning Into Evapotranspiration and Runoff in Land Surface Parameterizations. <i>Water Resources Research</i> , 2019 , 55, 95-111	5.4	34
109	Dynamical downscaling of regional climate: A review of methods and limitations. <i>Science China Earth Sciences</i> , 2019 , 62, 365-375	4.6	34
108	Assessing the Capability of a Regional-Scale Weather Model to Simulate Extreme Precipitation Patterns and Flooding in Central Texas. <i>Weather and Forecasting</i> , 2008 , 23, 1102-1126	2.1	33
107	Sensitivity of Latent Heat Flux from PILPS Land-Surface Schemes to Perturbations of Surface Air Temperature. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 1909-1927	2.1	33
106	Simulation of snow mass and extent in general circulation models. <i>Hydrological Processes</i> , 1999 , 13, 2097-2113	3.3	33
105	Hydrometeorological Response of the Modeled North American Monsoon to Convective Parameterization. <i>Journal of Hydrometeorology</i> , 2003 , 4, 235-250	3.7	33
104	Integration of a Parsimonious Hydrological Model with Recurrent Neural Networks for Improved Streamflow Forecasting. <i>Water (Switzerland)</i> , 2018 , 10, 1655	3	33
103	Regional-scale river flow modeling using off-the-shelf runoff products, thousands of mapped rivers and hundreds of stream flow gauges. <i>Environmental Modelling and Software</i> , 2013 , 42, 116-132	5.2	32
102	One-dimensional snow water and energy balance model for vegetated surfaces. <i>Hydrological Processes</i> , 1999 , 13, 2467-2482	3.3	32
101	Implementation of a vector-based river network routing scheme in the community WRF-Hydro modeling framework for flood discharge simulation. <i>Environmental Modelling and Software</i> , 2018 , 107, 1-11	5.2	29
100	A wavelet approach to the short-term to pluri-decennial variability of streamflow in the Mississippi river basin from 1934 to 1998. <i>International Journal of Climatology</i> , 2011 , 31, 31-43	3.5	29
99	Impact of field-calibrated vegetation parameters on GCM climate simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001 , 127, 1199-1223	6.4	29

98	Comparison of albedos computed by land surface models and evaluation against remotely sensed data. <i>Journal of Geophysical Research</i> , 2001 , 106, 20687-20702		28
97	Snow data assimilation-constrained land initialization improves seasonal temperature prediction. <i>Geophysical Research Letters</i> , 2016 , 43, 11,423	4.9	27
96	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 145-155	5.8	27
95	Estimating Snow Water Storage in North America Using CLM4, DART, and Snow Radiance Data Assimilation. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2853-2874	3.7	26
94	Aggregation rules for surface parameters in global models. <i>Hydrology and Earth System Sciences</i> , 1997 , 1, 217-226	5.5	26
93	Model performance, model robustness, and model fitness scores: A new method for identifying good land-surface models. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	26
92	High Summertime Aerosol Loadings Over the Arabian Sea and Their Transport Pathways. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,568	4.4	26
91	Projected changes of temperature and precipitation in Texas from downscaled global climate models. <i>Climate Research</i> , 2012 , 53, 229-244	1.6	25
90	Global Soil Moisture Estimation by Assimilating AMSR-E Brightness Temperatures in a Coupled CLM4RTM-DART System. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2431-2454	3.7	24
89	Role of ocean evaporation in California droughts and floods. <i>Geophysical Research Letters</i> , 2016 , 43, 6554-6562	4.5	24
88	Sensitivity of biogenic secondary organic aerosols to future climate change at regional scales: An online coupled simulation. <i>Atmospheric Environment</i> , 2010 , 44, 4891-4907	5.3	24
87	Sensitivity of ground heat flux to vegetation cover fraction and leaf area index. <i>Journal of Geophysical Research</i> , 1999 , 104, 19505-19514		24
86	Integration of nitrogen dynamics into the Noah-MP land surface model v1.1 for climate and environmental predictions. <i>Geoscientific Model Development</i> , 2016 , 9, 1-15	6.3	24
85	New insights into the wind-dust relationship in sandblasting and direct aerodynamic entrainment from wind tunnel experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1776-1792	4.4	23
84	Quantifying local-scale dust emission from the Arabian Red Sea coastal plain. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 993-1015	6.8	22
83	Use of a Coupled Land Surface General Circulation Model to Examine the Impacts of Doubled Stomatal Resistance on the Water Resources of the American Southwest. <i>Journal of Climate</i> , 1999 , 12, 3359-3375	4.4	22
82	Effects of soil-type datasets on regional terrestrial water cycle simulations under different climatic regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,387-14,402	4.4	22
81	Diagnostic evaluation of the Community Earth System Model in simulating mineral dust emission with insight into large-scale dust storm mobilization in the Middle East and North Africa (MENA). <i>Aeolian Research</i> , 2016 , 21, 21-35	3.9	21

80	Multi-sensor land data assimilation: Toward a robust global soil moisture and snow estimation. <i>Remote Sensing of Environment</i> , 2018 , 216, 13-27	13.2	21
79	A decade of RAPID: Reflections on the development of an open source geoscience code. <i>Earth and Space Science</i> , 2016 , 3, 226-244	3.1	20
78	Spin-up processes in the Community Land Model version 4 with explicit carbon and nitrogen components. <i>Ecological Modelling</i> , 2013 , 263, 308-325	3	20
77	Irrigation-Induced Environmental Changes around the Aral Sea: An Integrated View from Multiple Satellite Observations. <i>Remote Sensing</i> , 2017 , 9, 900	5	20
76	Deforestation-induced warming over tropical mountain regions regulated by elevation. <i>Nature Geoscience</i> , 2021 , 14, 23-29	18.3	20
75	MODELING LAND SURFACE PROCESSES IN SHORT-TERM WEATHER AND CLIMATE STUDIES. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2004 , 288-313		19
74	High sensitivity of Indian summer monsoon to Middle East dust absorptive properties. <i>Scientific Reports</i> , 2016 , 6, 30690	4.9	18
73	Insights into Hydrometeorological Factors Constraining Flood Prediction Skill during the May and October 2015 Texas Hill Country Flood Events. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1339-1361	3.7	18
72	Quantification of the upstream-to-downstream influence in the Muskingum method and implications for speedup in parallel computations of river flow. <i>Water Resources Research</i> , 2013 , 49, 2783-2800	5.4	17
71	Parameter estimation in ensemble based snow data assimilation: A synthetic study. <i>Advances in Water Resources</i> , 2011 , 34, 407-416	4.7	17
70	Improving the Radiance Assimilation Performance in Estimating Snow Water Storage across Snow and Land-Cover Types in North America. <i>Journal of Hydrometeorology</i> , 2017 , 18, 651-668	3.7	16
69	Climate, river network, and vegetation cover relationships across a climate gradient and their potential for predicting effects of decadal-scale climate change. <i>Journal of Hydrology</i> , 2013 , 488, 101-109	6	16
68	Treatment of soil, vegetation and snow in land surface models: a test of the Biosphere-Atmosphere Transfer Scheme with the HAPEX-MOBILHY, ABRACOS and Russian data. <i>Journal of Hydrology</i> , 1998 , 212-213, 109-127	6	16
67	Stable water isotope simulation in different reservoirs of Manaus, Brazil, by Community Land Model incorporating stable isotopic effect. <i>International Journal of Climatology</i> , 2009 , 29, 619-628	3.5	15
66	Comparative Evaluation of BATS2, BATS, and SiB2 with Amazon Data. <i>Journal of Hydrometeorology</i> , 2000 , 1, 135-153	3.7	15
65	Sub-grid scale precipitation in ALCMs: re-assessing the land surface sensitivity using a single column model. <i>Climate Dynamics</i> , 1993 , 9, 33-41	4.2	15
64	Ensemble Evaluation of Hydrologically Enhanced Noah-LSM: Partitioning of the Water Balance in High-Resolution Simulations over the Little Washita River Experimental Watershed. <i>Journal of Hydrometeorology</i> , 2011 , 12, 45-64	3.7	14
63	Interannual variation in biogenic emissions on a regional scale. <i>Journal of Geophysical Research</i> , 2007 , 112,		14

62	Unprecedented Drought Challenges for Texas Water Resources in a Changing Climate: What Do Researchers and Stakeholders Need to Know?. <i>Earth's Future</i> , 2020 , 8, e2020EF001552	7.9	14
61	Implementing surface parameter aggregation rules in the CCM3 global climate model: regional responses at the land surface. <i>Hydrology and Earth System Sciences</i> , 1999 , 3, 463-476	5.5	13
60	Improving flood simulation capability of the WRF-Hydro-RAPID model using a multi-source precipitation merging method. <i>Journal of Hydrology</i> , 2021 , 592, 125814	6	13
59	Systematic Hydrological Evaluation of the Noah-MP Land Surface Model over China. <i>Advances in Atmospheric Sciences</i> , 2019 , 36, 1171-1187	2.9	12
58	Spring soil moisture-precipitation feedback in the Southern Great Plains: How is it related to large-scale atmospheric conditions?. <i>Geophysical Research Letters</i> , 2014 , 41, 1283-1289	4.9	12
57	Using NHDPlus as the Land Base for the Noah-distributed Model. <i>Transactions in GIS</i> , 2009 , 13, 363-377	2.1	12
56	Evaluation and Intercomparison of Multiple Snow Water Equivalent Products over the Tibetan Plateau. <i>Journal of Hydrometeorology</i> , 2019 , 20, 2043-2055	3.7	11
55	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 5247-5268	8.1	11
54	Enhanced fixed-size parallel speedup with the Muskingum method using a trans-boundary approach and a large subbasins approximation. <i>Water Resources Research</i> , 2015 , 51, 7547-7571	5.4	11
53	Sensitivity of biogenic emissions simulated by a land-surface model to land-cover representations. <i>Atmospheric Environment</i> , 2008 , 42, 4185-4197	5.3	11
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. <i>Journal of Geophysical Research</i> , 2005 , 110,		11
51	Representation of Plant Hydraulics in the Noah-MP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002214	7.1	11
50	A GIS Framework for Regional Modeling of Riverine Nitrogen Transport: Case Study, San Antonio and Guadalupe Basins. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1-15	2.1	11
49	An integrated framework to model nitrate contaminants with interactions of agriculture, groundwater, and surface water at regional scales: The STICS-BauDyssè coupled models applied over the Seine River Basin. <i>Journal of Hydrology</i> , 2019 , 568, 943-958	6	11
48	Assimilation of Remotely Sensed LAI Into CLM4CN Using DART. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2768-2786	7.1	10
47	Evaluation of the simulations of the North American Monsoon in the NCAR CCM3. <i>Geophysical Research Letters</i> , 2001 , 28, 1211-1214	4.9	10
46	Assessing Noah-MP Parameterization Sensitivity and Uncertainty Interval Across Snow Climates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030417	4.4	10
45	A method to study the impact of climate change on variability of river flow: an example from the Guadalupe River in Texas. <i>Climatic Change</i> , 2012 , 113, 965-979	4.5	9

44	Development of species-based, regional emission capacities for simulation of biogenic volatile organic compound emissions in land-surface models: An example from Texas, USA. <i>Atmospheric Environment</i> , 2006 , 40, 1464-1479	5.3	9
43	Effects of Averaging and Separating Soil Moisture and Temperature in the Presence of Snow Cover in a SVAT and Hydrological Model for a Southern Ontario, Canada, Watershed. <i>Journal of Hydrometeorology</i> , 2006 , 7, 298-304	3.7	9
42	Improving Land Surface Hydrological Simulations in China Using CLDAS Meteorological Forcing Data. <i>Journal of Meteorological Research</i> , 2019 , 33, 1194-1206	2.3	9
41	The aggregate description of semi-arid vegetation with precipitation-generated soil moisture heterogeneity. <i>Hydrology and Earth System Sciences</i> , 1997 , 1, 205-212	5.5	8
40	Estimating uncertainties in the newly developed multi-source land snow data assimilation system. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8254-8268	4.4	8
39	Emergent spectral properties of river network topology: an optimal channel network approach. <i>Scientific Reports</i> , 2017 , 7, 11486	4.9	7
38	Development and evaluation of a physically-based lake level model for water resource management: A case study for Lake Buchanan, Texas. <i>Journal of Hydrology: Regional Studies</i> , 2015 , 4, 661-674	3.6	7
37	The impact of implementing the bare essentials of surface transfer land surface scheme into the BMRC GCM. <i>Climate Dynamics</i> , 1995 , 11, 279-297	4.2	7
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35	Land-atmosphere-aerosol coupling in North China during 2000-2013. <i>International Journal of Climatology</i> , 2017 , 37, 1297-1306	3.5	6
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