Zong-Liang Yang

List of Publications by Year
in descending order

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198 papers	19,828 citations	18482 62 h-index	11939 134 g-index
214 all docs	214 docs citations	214 times ranked	14689 citing authors

#	Article	IF	Citations
1	Power system resilience to floods: Modeling, impact assessment, and mid-term mitigation strategies. International Journal of Electrical Power and Energy Systems, 2022, 135, 107545.	5.5	30
2	Urbanization Aggravates Effects of Global Warming on Local Atmospheric Drying. Geophysical Research Letters, 2022, 49, .	4.0	22
3	Water budget variation, groundwater depletion, and water resource vulnerability in the Haihe River Basin during the new millennium. Physics and Chemistry of the Earth, 2022, 126, 103141.	2.9	9
4	Accelerating flash droughts induced by the joint influence of soil moisture depletion and atmospheric aridity. Nature Communications, 2022, 13, 1139.	12.8	70
5	Hydroclimatic extremes and impacts in a changing environment: Observations, mechanisms, and projections. Journal of Hydrology, 2022, 608, 127615.	5.4	4
6	Improving the local climate zone classification with building height, imperviousness, and machine learningÂfor urban models. Computational Urban Science, 2022, 2, .	3.2	7
7	The impact of multi-sensor land data assimilation on river discharge estimation. Remote Sensing of Environment, 2022, 279, 113138.	11.0	7
8	Improving flood simulation capability of the WRF-Hydro-RAPID model using a multi-source precipitation merging method. Journal of Hydrology, 2021, 592, 125814.	5.4	30
9	Deforestation-induced warming over tropical mountain regions regulated by elevation. Nature Geoscience, 2021, 14, 23-29.	12.9	73
10	A Soil Moistureâ€Dependent Model to Simulate Water Table Depth and Proportions of Surface and Subsurface Runoff and Its Validation at the Basin Scale. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	3.3	1
11	A Comprehensive Review of Specific Yield in Land Surface and Groundwater Studies. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002270.	3.8	25
12	The Impact of Noah-MP Physical Parameterizations on Modeling Water Availability during Droughts in the Texas-Gulf Region. Journal of Hydrometeorology, 2021, , .	1.9	4
13	Hurricane Scenario Generation for Uncertainty Modeling of Coastal and Inland Flooding. Frontiers in Climate, 2021, 3, .	2.8	1
14	Representation of Plant Hydraulics in the Noahâ€MP Land Surface Model: Model Development and Multiscale Evaluation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002214.	3.8	50
15	Ensemble Skill Gains Obtained From the Multiâ€Physics Versus Multiâ€Model Approaches for Continentalâ€Scale Hydrological Simulations. Water Resources Research, 2021, 57, e2020WR028846.	4.2	1
16	Retrieving accurate soil moisture over the Tibetan Plateau using multi-source remote sensing data assimilation with simultaneous state and parameter estimations. Journal of Hydrometeorology, 2021, , .	1.9	3
17	Attribution of trends in meteorological drought during 1960â€“2016 over the Loess Plateau, China. Journal of Chinese Geography, 2021, 31, 1123-1139.	3.9	6
18	More severe drought detected by the assimilation of brightness temperature and terrestrial water storage anomalies in Texas during 2010â€“2013. Journal of Hydrology, 2021, 603, 126802.	5.4	5

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19	Bias-corrected CMIP6 global dataset for dynamical downscaling of the historical and future climate (1979â€“2100). Scientific Data, 2021, 8, 293.	5.3	71
20	Cloud Resolving WRF Simulations of Precipitation and Soil Moisture Over the Central Tibetan Plateau: An Assessment of Various Physics Options. Earth and Space Science, 2020, 7, e2019EA000865.	2.6	20
21	Comparison and evaluation of multiple land surface products for the water budget in the Yellow River Basin. Journal of Hydrology, 2020, 584, 124534.	5.4	19
22	Assimilating multi-satellite snow data in ungauged Eurasia improves the simulation accuracy of Asian monsoon seasonal anomalies. Environmental Research Letters, 2020, 15, 064033.	5.2	6
23	Unprecedented Drought Challenges for Texas Water Resources in a Changing Climate: What Do Researchers and Stakeholders Need to Know?. Earth's Future, 2020, 8, e2020EF001552.	6.3	38
24	Perspectives for Tibetan Plateau data assimilation. National Science Review, 2020, 7, 495-499.	9.5	4
25	Divergent effects of climate change on future groundwater availability in key mid-latitude aquifers. Nature Communications, 2020, 11, 3710.	12.8	151
26	Multiscale Changes in Snow Over the Tibetan Plateau During 1980â€“2018 Represented by Reanalysis Data Sets and Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031914.	3.3	16
27	Estimating Crop and Grass Productivity over the United States Using Satellite Solar-Induced Chlorophyll Fluorescence, Precipitation and Soil Moisture Data. Remote Sensing, 2020, 12, 3434.	4.0	5
28	Elucidating Diverse Drought Characteristics from Two Meteorological Drought Indices (SPI and SPEI) in China. Journal of Hydrometeorology, 2020, 21, 1513-1530.	1.9	114
29	Multiple possibilities for future precipitation changes in Asia under the Paris Agreement. International Journal of Climatology, 2020, 40, 4888-4902.	3.5	8
30	Modeling the Impacts of Nitrogen Dynamics on Regional Terrestrial Carbon and Water Cycles over China with Noah-MP-CN. Advances in Atmospheric Sciences, 2020, 37, 679-695.	4.3	6
31	Assessing Noahâ€MP Parameterization Sensitivity and Uncertainty Interval Across Snow Climates. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030417.	3.3	20
32	Falsificationâ€Oriented Signatureâ€Based Evaluation for Guiding the Development of Land Surface Models and the Enhancement of Observations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002132.	3.8	7
33	Gridded Statistical Downscaling Based on Interpolation of Parameters and Predictor Locations for Summer Daily Precipitation in North China. Journal of Applied Meteorology and Climatology, 2019, 58, 2295-2311.	1.5	8
34	Assimilation of Remotely Sensed LAI Into CLM4CN Using DART. Journal of Advances in Modeling Earth Systems, 2019, 11, 2768-2786.	3.8	20
35	Evaluation and Intercomparison of Multiple Snow Water Equivalent Products over the Tibetan Plateau. Journal of Hydrometeorology, 2019, 20, 2043-2055.	1.9	25
36	Comparison of different sequential assimilation algorithms for satellite-derived leaf area index using the Data Assimilation Research Testbed (version Lanai). Geoscientific Model Development, 2019, 12, 3119-3133.	3.6	17

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37	Systematic Hydrological Evaluation of the Noah-MP Land Surface Model over China. Advances in Atmospheric Sciences, 2019, 36, 1171-1187.	4.3	21
38	Improving Land Surface Hydrological Simulations in China Using CLDAS Meteorological Forcing Data. Journal of Meteorological Research, 2019, 33, 1194-1206.	2.4	38
39	Potential surface hydrologic responses to increases in greenhouse gas concentrations and land use and land cover changes. International Journal of Climatology, 2019, 39, 814-827.	3.5	4
40	On the Sensitivity of the Precipitation Partitioning Into Evapotranspiration and Runoff in Land Surface Parameterizations. Water Resources Research, 2019, 55, 95-111.	4.2	54
41	An integrated framework to model nitrate contaminants with interactions of agriculture, groundwater, and surface water at regional scales: The STICSâ€“EauDyssÃ©e coupled models applied over the Seine River Basin. Journal of Hydrology, 2019, 568, 943-958.	5.4	21
42	Dynamical downscaling of regional climate: A review of methods and limitations. Science China Earth Sciences, 2019, 62, 365-375.	5.2	94
43	Evaluation and uncertainty attribution of the simulated streamflow from NoahMP-RAPID over a high-altitude mountainous basin. Chinese Science Bulletin, 2019, 64, 444-455.	0.7	2
44	Missing pieces to modeling the Arctic-Boreal puzzle. Environmental Research Letters, 2018, 13, 020202.	5.2	61
45	Effect of land model ensemble versus coupled model ensemble on the simulation of precipitation climatology and variability. Theoretical and Applied Climatology, 2018, 134, 793-800.	2.8	3
46	Spatiotemporal Evaluation of Simulated Evapotranspiration and Streamflow over Texas Using the WRFâ€Hydroâ€RAPID Modeling Framework. Journal of the American Water Resources Association, 2018, 54, 40-54.	2.4	51
47	Integration of a Parsimonious Hydrological Model with Recurrent Neural Networks for Improved Streamflow Forecasting. Water (Switzerland), 2018, 10, 1655.	2.7	56
48	High Summertime Aerosol Loadings Over the Arabian Sea and Their Transport Pathways. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,568.	3.3	44
49	Multi-sensor land data assimilation: Toward a robust global soil moisture and snow estimation. Remote Sensing of Environment, 2018, 216, 13-27.	11.0	37
50	Insights into Hydrometeorological Factors Constraining Flood Prediction Skill during the May and October 2015 Texas Hill Country Flood Events. Journal of Hydrometeorology, 2018, 19, 1339-1361.	1.9	26
51	Implementation of a vector-based river network routing scheme in the community WRF-Hydro modeling framework for flood discharge simulation. Environmental Modelling and Software, 2018, 107, 1-11.	4.5	49
52	Landâ€“atmosphereâ€“aerosol coupling in North China during 2000â€“2013. International Journal of Climatology, 2017, 37, 1297-1306.	3.5	8
53	Understanding dust emission in the BodÃ©lÃ© region by extracting locally mobilized dust aerosols from satellite Aerosol Optical Depth data using principal component analysis. Aeolian Research, 2017, 24, 105-113.	2.7	6
54	Decadal Modulation of Precipitation Patterns over Eastern China by Sea Surface Temperature Anomalies. Journal of Climate, 2017, 30, 7017-7033.	3.2	103

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55	Improving the Radiance Assimilation Performance in Estimating Snow Water Storage across Snow and Land-Cover Types in North America. Journal of Hydrometeorology, 2017, 18, 651-668.	1.9	23
56	Emergent spectral properties of river network topology: an optimal channel network approach. Scientific Reports, 2017, 7, 11486.	3.3	11
57	Foreword to the special issue: decadal scale drought in arid regions. Climatic Change, 2017, 144, 389-390.	3.6	0
58	Relative impacts of increased greenhouse gas concentrations and land cover change on the surface climate in arid and semi-arid regions of China. Climatic Change, 2017, 144, 491-503.	3.6	13
59	Continentalâ€Scale River Flow Modeling of the Mississippi River Basin Using Highâ€Resolution NHDPlus Dataset. Journal of the American Water Resources Association, 2017, 53, 258-279.	2.4	44
60	Quantifying local-scale dust emission from the Arabian Red Sea coastal plain. Atmospheric Chemistry and Physics, 2017, 17, 993-1015.	4.9	27
61	Irrigation-Induced Environmental Changes around the Aral Sea: An Integrated View from Multiple Satellite Observations. Remote Sensing, 2017, 9, 900.	4.0	33
62	TOWARDS AN ADVANCED ANALYSIS, SIMULATION, AND FORECASTING CAPABILITY FOR THE WATER CYCLE IN TEXAS. , 2017, , .		0
63	THE TEXAS WATER RESEARCH NETWORK: ADDRESSING CHALLENGES FOR 21ST CENTURY TEXAS. , 2017, , .		0
64	Integration of nitrogen dynamics into the Noah-MP land surface model v1.1 for climate and environmental predictions. Geoscientific Model Development, 2016, 9, 1-15.	3.6	31
65	Effects of soilâ€type datasets on regional terrestrial water cycle simulations under different climatic regimes. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,387.	3.3	24
66	Estimating uncertainties in the newly developed multi-source land snow data assimilation system. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8254-8268.	3.3	12
67	A <scp>GIS</scp> Framework for Regional Modeling of Riverine Nitrogen Transport: Case Study, San Antonio and Guadalupe Basins. Journal of the American Water Resources Association, 2016, 52, 1-15.	2.4	17
68	Seasonal Responses of Indian Summer Monsoon to Dust Aerosols in the Middle East, India, and China. Journal of Climate, 2016, 29, 6329-6349.	3.2	64
69	Estimating Snow Water Storage in North America Using CLM4, DART, and Snow Radiance Data Assimilation. Journal of Hydrometeorology, 2016, 17, 2853-2874.	1.9	32
70	New insights into the windâ€dust relationship in sandblasting and direct aerodynamic entrainment from wind tunnel experiments. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1776-1792.	3.3	29
71	Global Soil Moisture Estimation by Assimilating AMSR-E Brightness Temperatures in a Coupled CLM4â€“RTMâ€“DART System. Journal of Hydrometeorology, 2016, 17, 2431-2454.	1.9	30
72	High sensitivity of Indian summer monsoon to Middle East dust absorptive properties. Scientific Reports, 2016, 6, 30690.	3.3	23

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73	Snow data assimilationâ€constrained land initialization improves seasonal temperature prediction. Geophysical Research Letters, 2016, 43, 11,423.	4.0	33
74	A decade of RAPIDâ€"Reflections on the development of an open source geoscience code. Earth and Space Science, 2016, 3, 226-244.	2.6	31
75	Role of ocean evaporation in California droughts and floods. Geophysical Research Letters, 2016, 43, 6554-6562.	4.0	29
76	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). Aeolian Research, 2016, 21, 21-35.	2.7	24
77	Quantifying the impacts of landscape heterogeneity and model resolution on dust emissions in the Arabian Peninsula. Environmental Modelling and Software, 2016, 78, 106-119.	4.5	6
78	Evaluation of the Snow Simulations from the Community Land Model, Version 4 (CLM4). Journal of Hydrometeorology, 2016, 17, 153-170.	1.9	51
79	Impact of moisture flux convergence and soil moisture on precipitation: a case study for the southern United States with implications for the globe. Climate Dynamics, 2016, 46, 467-481.	3.8	84
80	Investigating diurnal and seasonal climatic response to land use and land cover change over monsoon Asia with the Community Earth System Model. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1137-1152.	3.3	57
81	A new dynamical downscaling approach with GCM bias corrections and spectral nudging. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3063-3084.	3.3	80
82	Development and evaluation of a physically-based lake level model for water resource management: A case study for Lake Buchanan, Texas. Journal of Hydrology: Regional Studies, 2015, 4, 661-674.	2.4	9
83	Consistent response of Indian summer monsoon to Middle East dust in observations and simulations. Atmospheric Chemistry and Physics, 2015, 15, 9897-9915.	4.9	83
84	Enhanced fixed-size parallel speedup with the Muskingum method using a trans-boundary approach and a large subbasins approximation. Water Resources Research, 2015, 51, 7547-7571.	4.2	19
85	The effect of groundwater interaction in North American regional climate simulations with WRF/Noah-MP. Climatic Change, 2015, 129, 485-498.	3.6	114
86	Foreword to the special issue: regional earth system modeling. Climatic Change, 2015, 129, 365-368.	3.6	3
87	Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5247-5268.	6.3	14
88	Positive response of Indian summer rainfall to Middle East dust. Geophysical Research Letters, 2014, 41, 4068-4074.	4.0	104
89	The scale-dependence of SMOS soil moisture accuracy and its improvement through land data assimilation in the central Tibetan Plateau. Remote Sensing of Environment, 2014, 152, 345-355.	11.0	51
90	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105

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91	Assessment of simulated water balance from Noah, Noahâ€MP, CLM, and VIC over CONUS using the NLDAS test bed. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,751.	3.3	127
92	Mapping erodibility in dust source regions based on geomorphology, meteorology, and remote sensing. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1977-1994.	2.8	68
93	Spring soil moistureâ€precipitation feedback in the Southern Great Plains: How is it related to largeâ€scale atmospheric conditions?. Geophysical Research Letters, 2014, 41, 1283-1289.	4.0	16
94	Modeling seasonal snowpack evolution in the complex terrain and forested Colorado Headwaters region: A model intercomparison study. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,795.	3.3	95
95	Assimilation of MODIS snow cover through the Data Assimilation Research Testbed and the Community Land Model version 4. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7091-7103.	3.3	60
96	Hydrological evaluation of the Noahâ€MP land surface model for the Mississippi River Basin. Journal of Geophysical Research D: Atmospheres, 2014, 119, 23-38.	3.3	151
97	Climate, river network, and vegetation cover relationships across a climate gradient and their potential for predicting effects of decadal-scale climate change. Journal of Hydrology, 2013, 488, 101-109.	5.4	17
98	Spin-up processes in the Community Land Model version 4 with explicit carbon and nitrogen components. Ecological Modelling, 2013, 263, 308-325.	2.5	27
99	Overview of the Large-Scale Biosphereâ€“Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
100	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155.	4.8	30
101	Regional-scale river flow modeling using off-the-shelf runoff products, thousands of mapped rivers and hundreds of stream flow gauges. Environmental Modelling and Software, 2013, 42, 116-132.	4.5	39
102	Quantification of the upstreamâ€toâ€downstream influence in the Muskingum method and implications for speedup in parallel computations of river flow. Water Resources Research, 2013, 49, 2783-2800.	4.2	21
103	Representing and evaluating the landscape freeze/thaw properties and their impacts on soil impermeability: Hydrological processes in the community land model version 4. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7542-7557.	3.3	3
104	An Improved Dynamical Downscaling Method with GCM Bias Corrections and Its Validation with 30 Years of Climate Simulations. Journal of Climate, 2012, 25, 6271-6286.	3.2	150
105	A method to study the impact of climate change on variability of river flow: an example from the Guadalupe River in Texas. Climatic Change, 2012, 113, 965-979.	3.6	9
106	Projected changes of temperature and precipitation in Texas from downscaled global climate models. Climate Research, 2012, 53, 229-244.	1.1	37
107	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
108	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

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109	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	666
110	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	3.8	367
111	The Community Climate System Model Version 4. Journal of Climate, 2011, 24, 4973-4991.	3.2	2,428
112	Parameter estimation in ensemble based snow data assimilation: A synthetic study. Advances in Water Resources, 2011, 34, 407-416.	3.8	18
113	A wavelet approach to the shortâ€term to pluriâ€decennal variability of streamflow in the Mississippi river basin from 1934 to 1998. International Journal of Climatology, 2011, 31, 31-43.	3.5	32
114	RAPID applied to the SIM-France model. Hydrological Processes, 2011, 25, 3412-3425.	2.6	59
115	Ensemble Evaluation of Hydrologically Enhanced Noah-LSM: Partitioning of the Water Balance in High-Resolution Simulations over the Little Washita River Experimental Watershed. Journal of Hydrometeorology, 2011, 12, 45-64.	1.9	16
116	River Network Routing on the NHDPlus Dataset. Journal of Hydrometeorology, 2011, 12, 913-934.	1.9	166
117	Sensitivity of biogenic secondary organic aerosols to future climate change at regional scales: An online coupled simulation. Atmospheric Environment, 2010, 44, 4891-4907.	4.1	24
118	Quantifying parameter sensitivity, interaction, and transferability in hydrologically enhanced versions of the Noah land surface model over transition zones during the warm season. Journal of Geophysical Research, 2010, 115, .	3.3	131
119	Multisensor snow data assimilation at the continental scale: The value of Gravity Recovery and Climate Experiment terrestrial water storage information. Journal of Geophysical Research, 2010, 115, .	3.3	86
120	Evaluating Enhanced Hydrological Representations in Noah LSM over Transition Zones: Implications for Model Development. Journal of Hydrometeorology, 2009, 10, 600-622.	1.9	40
121	Stable water isotope simulation in different reservoirs of Manaus, Brazil, by Community Land Model incorporating stable isotopic effect. International Journal of Climatology, 2009, 29, 619-628.	3.5	18
122	Simulations of seasonal variations of stable water isotopes in land surface process model CLM. Science Bulletin, 2009, 54, 1765-1772.	9.0	2
123	Using NHDPlus as the Land Base for the Noahâ€distributed Model. Transactions in GIS, 2009, 13, 363-377.	2.3	13
124	Impacts of vegetation and groundwater dynamics on warm season precipitation over the Central United States. Journal of Geophysical Research, 2009, 114, .	3.3	107
125	Sensitivity of biogenic emissions simulated by a land-surface model to land-cover representations. Atmospheric Environment, 2008, 42, 4185-4197.	4.1	11
126	Assessment of three dynamical climate downscaling methods using the Weather Research and Forecasting (WRF) model. Journal of Geophysical Research, 2008, 113, .	3.3	306

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127	Enhancing the estimation of continentalâ€scale snow water equivalent by assimilating MODIS snow cover with the ensemble Kalman filter. Journal of Geophysical Research, 2008, 113, .	3.3	57
128	Use of FLUXNET in the Community Land Model development. Journal of Geophysical Research, 2008, 113, .	3.3	210
129	Improvements to the Community Land Model and their impact on the hydrological cycle. Journal of Geophysical Research, 2008, 113, .	3.3	649
130	Model performance, model robustness, and model fitness scores: A new method for identifying good landâ€surface models. Geophysical Research Letters, 2008, 35, .	4.0	26
131	Predicted impacts of climate and land use change on surface ozone in the Houston, Texas, area. Journal of Geophysical Research, 2008, 113, .	3.3	87
132	Effects of water table dynamics on regional climate: A case study over east Asian monsoon area. Journal of Geophysical Research, 2008, 113, .	3.3	57
133	Assessing the Capability of a Regional-Scale Weather Model to Simulate Extreme Precipitation Patterns and Flooding in Central Texas. Weather and Forecasting, 2008, 23, 1102-1126.	1.4	47
134	Future precipitation changes and their implications for tropical peatlands. Geophysical Research Letters, 2007, 34, .	4.0	65
135	Development of a simple groundwater model for use in climate models and evaluation with Gravity Recovery and Climate Experiment data. Journal of Geophysical Research, 2007, 112, .	3.3	440
136	Interannual variation in biogenic emissions on a regional scale. Journal of Geophysical Research, 2007, 112, .	3.3	17
137	Improving land-surface model hydrology: Is an explicit aquifer model better than a deeper soil profile?. Geophysical Research Letters, 2007, 34, .	4.0	72
138	Retrieving snow mass from GRACE terrestrial water storage change with a land surface model. Geophysical Research Letters, 2007, 34, .	4.0	48
139	An observationâ€based formulation of snow cover fraction and its evaluation over large North American river basins. Journal of Geophysical Research, 2007, 112, .	3.3	189
140	Assessing a land surface model's improvements with GRACE estimates. Geophysical Research Letters, 2006, 33, .	4.0	52
141	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. Journal of Hydrometeorology, 2006, 7, 298-304.	1.9	9
142	Development of species-based, regional emission capacities for simulation of biogenic volatile organic compound emissions in land-surface models: An example from Texas, USA. Atmospheric Environment, 2006, 40, 1464-1479.	4.1	11
143	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. Journal of Climate, 2006, 19, 2302-2324.	3.2	320
144	Effects of Frozen Soil on Snowmelt Runoff and Soil Water Storage at a Continental Scale. Journal of Hydrometeorology, 2006, 7, 937-952.	1.9	389

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145	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. Journal of Environmental Management, 2005, 75, 325-336.	7.8	332
146	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.	4.3	3
147	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
148	A simple TOPMODEL-based runoff parameterization (SIMTOP) for use in global climate models. Journal of Geophysical Research, 2005, 110, .	3.3	358
149	Modeling the Continental Hydrology: The Interplay between Canopy Interception and Hill-Slope Runoff. , 2004, , 284.		0
150	Impacts of data length on optimal parameter and uncertainty estimation of a land surface model. Journal of Geophysical Research, 2004, 109, .	3.3	39
151	Effects of vegetation canopy processes on snow surface energy and mass balances. Journal of Geophysical Research, 2004, 109, .	3.3	184
152	The RhÃ´ne-Aggregation Land Surface Scheme Intercomparison Project: An Overview. Journal of Climate, 2004, 17, 187-208.	3.2	178
153	Validation of the energy budget of an alpine snowpack simulated by several snow models (Snow MIP) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	212
154	MODELING LAND SURFACE PROCESSES IN SHORT-TERM WEATHER AND CLIMATE STUDIES. World Scientific Series on Asia-Pacific Weather and Climate, 2004, , 288-313.	0.2	25
155	Impacts of Fractional Snow Cover on Surface Air Temperature in the NCAR Community Atmosphere Model (NCAR-CAM2). , 2004, , .		0
156	The impact of sea surface temperature on the North American monsoon: A GCM study. Geophysical Research Letters, 2003, 30, .	4.0	3
157	Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. Journal of Geophysical Research, 2003, 108, .	3.3	120
158	Simulation of high-latitude hydrological processes in the Torneâ€“Kalix basin: PILPS Phase 2(e). Global and Planetary Change, 2003, 38, 1-30.	3.5	194
159	Simulation of high latitude hydrological processes in the Torneâ€“Kalix basin: PILPS Phase 2(e). Global and Planetary Change, 2003, 38, 31-53.	3.5	106
160	The Versatile Integrator of Surface and Atmosphere processes. Global and Planetary Change, 2003, 38, 175-189.	3.5	96
161	The versatile integrator of surface atmospheric processes. Global and Planetary Change, 2003, 38, 191-208.	3.5	45
162	The Common Land Model. Bulletin of the American Meteorological Society, 2003, 84, 1013-1024.	3.3	1,058

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163	Effects of Frozen Soil on Soil Temperature, Spring Infiltration, and Runoff: Results from the PILPS 2(d) Experiment at Valdai, Russia. Journal of Hydrometeorology, 2003, 4, 334-351.	1.9	150
164	Hydrometeorological Response of the Modeled North American Monsoon to Convective Parameterization. Journal of Hydrometeorology, 2003, 4, 235-250.	1.9	34
165	The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model*. Journal of Climate, 2002, 15, 3123-3149.	3.2	583
166	Sensitivity of the Modeled North American Monsoon Regional Climate to Convective Parameterization. Monthly Weather Review, 2002, 130, 1282-1298.	1.4	104
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168	Comparison of albedos computed by land surface models and evaluation against remotely sensed data. Journal of Geophysical Research, 2001, 106, 20687-20702.	3.3	34
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