

Ke Zhang

List of Publications by Year in descending order

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89
papers

7,345
citations

57758

44
h-index

56724

83
g-index

100
all docs

100
docs citations

100
times ranked

8707
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , 2010, 467, 951-954.	27.8	1,771
2	A continuous satellite-derived global record of land surface evapotranspiration from 1983 to 2006. <i>Water Resources Research</i> , 2010, 46, .	4.2	444
3	A review of remote sensing based actual evapotranspiration estimation. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 834-853.	6.5	380
4	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010, 23, 5715-5737.	3.2	303
5	Vegetation Greening and Climate Change Promote Multidecadal Rises of Global Land Evapotranspiration. <i>Scientific Reports</i> , 2015, 5, 15956.	3.3	265
6	Satellite based analysis of northern ET trends and associated changes in the regional water balance from 1983 to 2005. <i>Journal of Hydrology</i> , 2009, 379, 92-110.	5.4	212
7	Geographically weighted regression based methods for merging satellite and gauge precipitation. <i>Journal of Hydrology</i> , 2018, 558, 275-289.	5.4	181
8	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 793-797.	7.1	161
9	Increased control of vegetation on global terrestrial energy fluxes. <i>Nature Climate Change</i> , 2020, 10, 356-362.	18.8	152
10	A hybrid runoff generation modelling framework based on spatial combination of three runoff generation schemes for semi-humid and semi-arid watersheds. <i>Journal of Hydrology</i> , 2020, 590, 125440.	5.4	120
11	Characteristics and influencing factors of rainfall-induced landslide and debris flow hazards in Shaanxi Province, China. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 93-105.	3.6	119
12	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016, 22, 3996-4013.	9.5	116
13	Changes in precipitation extremes in the Yangtze River Basin during 1960–2019 and the association with global warming, ENSO, and local effects. <i>Science of the Total Environment</i> , 2021, 760, 144244.	8.0	113
14	Trends in evapotranspiration and their responses to climate change and vegetation greening over the upper reaches of the Yellow River Basin. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 118-129.	4.8	111
15	The Sensitivity of North American Terrestrial Carbon Fluxes to Spatial and Temporal Variation in Soil Moisture: An Analysis Using Radar-Derived Estimates of Root-Zone Soil Moisture. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3208-3231.	3.0	111
16	Ground observation-based analysis of soil moisture spatiotemporal variability across a humid to semi-humid transitional zone in China. <i>Journal of Hydrology</i> , 2019, 574, 903-914.	5.4	104
17	Satellite-based model detection of recent climate-driven changes in northern high-latitude vegetation productivity. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
18	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric CO ₂ and land use. <i>Global Change Biology</i> , 2015, 21, 2569-2587.	9.5	97

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19	Improving the flood prediction capability of the Xinanjiang model in ungauged nested catchments by coupling it with the geomorphologic instantaneous unit hydrograph. <i>Journal of Hydrology</i> , 2014, 517, 1035-1048.	5.4	94
20	Northern high-latitude ecosystems respond to climate change. <i>Eos</i> , 2007, 88, 333-335.	0.1	92
21	Analysis of flash flood disaster characteristics in China from 2011 to 2015. <i>Natural Hazards</i> , 2018, 90, 407-420.	3.4	92
22	Satellite Microwave Remote Sensing of Daily Land Surface Air Temperature Minima and Maxima From AMSR-E. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010, 3, 111-123.	4.9	91
23	Physically-based landslide prediction over a large region: Scaling low-resolution hydrological model results for high-resolution slope stability assessment. <i>Environmental Modelling and Software</i> , 2020, 124, 104607.	4.5	87
24	Water balance-based actual evapotranspiration reconstruction from ground and satellite observations over the conterminous United States. <i>Water Resources Research</i> , 2015, 51, 6485-6499.	4.2	79
25	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1455-1475.	4.9	69
26	A comprehensive assessment framework for quantifying climatic and anthropogenic contributions to streamflow changes: A case study in a typical semi-arid North China basin. <i>Environmental Modelling and Software</i> , 2020, 128, 104704.	4.5	69
27	A priori parameter estimates for a distributed, grid-based Xinanjiang model using geographically based information. <i>Journal of Hydrology</i> , 2012, 468-469, 47-62.	5.4	67
28	Sensitivity of hydrological models to temporal and spatial resolutions of rainfall data. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2647-2663.	4.9	66
29	Exploring the utility of radar and satellite-sensed precipitation and their dynamic bias correction for integrated prediction of flood and landslide hazards. <i>Journal of Hydrology</i> , 2021, 603, 126964.	5.4	66
30	Coupling the k-nearest neighbor procedure with the Kalman filter for real-time updating of the hydraulic model in flood forecasting. <i>International Journal of Sediment Research</i> , 2016, 31, 149-158.	3.5	65
31	An integrated flood risk assessment approach based on coupled hydrological-hydraulic modeling and bottom-up hazard vulnerability analysis. <i>Environmental Modelling and Software</i> , 2022, 148, 105279.	4.5	65
32	Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. <i>New Phytologist</i> , 2018, 219, 914-931.	7.3	64
33	Changing freeze-thaw seasons in northern high latitudes and associated influences on evapotranspiration. <i>Hydrological Processes</i> , 2011, 25, 4142-4151.	2.6	62
34	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 1: Model description. <i>Geoscientific Model Development</i> , 2019, 12, 4309-4346.	3.6	62
35	A Satellite Approach to Estimate Land–Atmosphere CO_2 Exchange for Boreal and Arctic Biomes Using MODIS and AMSR-E. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 569-587.	6.3	58
36	Spatiotemporal characteristics and attribution of dry/wet conditions in the Weihe River Basin within a typical monsoon transition zone of East Asia over the recent 547 years. <i>Environmental Modelling and Software</i> , 2021, 143, 105116.	4.5	58

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37	A Comprehensive Evaluation of Five Evapotranspiration Datasets Based on Ground and GRACE Satellite Observations: Implications for Improvement of Evapotranspiration Retrieval Algorithm. <i>Remote Sensing</i> , 2021, 13, 2414.	4.0	54
38	Evaluation of the TRMM multisatellite precipitation analysis and its applicability in supporting reservoir operation and water resources management in Hanjiang basin, China. <i>Journal of Hydrology</i> , 2017, 549, 313-325.	5.4	52
39	Comparison of Three GIS-Based Hydrological Models. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 364-370.	1.9	50
40	Sensitivity of inferred climate model skill to evaluation decisions: a case study using CMIP5 evapotranspiration. <i>Environmental Research Letters</i> , 2013, 8, 024028.	5.2	50
41	Using multi-satellite microwave remote sensing observations for retrieval of daily surface soil moisture across China. <i>Water Science and Engineering</i> , 2019, 12, 85-97.	3.2	49
42	Multiple hydrological models comparison and an improved Bayesian model averaging approach for ensemble prediction over semi-humid regions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 217-238.	4.0	48
43	iCRESTRIGRS: a coupled modeling system for cascading flood-landslide disaster forecasting. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 5035-5048.	4.9	47
44	New Multisite Cascading Calibration Approach for Hydrological Models: Case Study in the Red River Basin Using the VIC Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	47
45	Development of a coupled hydrological-geotechnical framework for rainfall-induced landslides prediction. <i>Journal of Hydrology</i> , 2016, 543, 395-405.	5.4	46
46	Refining a Distributed Linear Reservoir Routing Method to Improve Performance of the CREST Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	44
47	Flood hazard mapping and assessment in data-scarce Nyaungdon area, Myanmar. <i>PLoS ONE</i> , 2019, 14, e0224558.	2.5	44
48	Changing Amazon biomass and the role of atmospheric CO ₂ concentration, climate, and land use. <i>Global Biogeochemical Cycles</i> , 2016, 30, 18-39.	4.9	32
49	Land cover change explains the increasing discharge of the Parana River. <i>Regional Environmental Change</i> , 2018, 18, 1871-1881.	2.9	32
50	Applicability assessment of the CASCADE Two Dimensional SEDiment (CASC2D-SED) distributed hydrological model for flood forecasting across four typical medium and small watersheds in China. <i>Journal of Flood Risk Management</i> , 2019, 12, .	3.3	32
51	Analysis and Projection of Land-Use/Land-Cover Dynamics through Scenario-Based Simulations Using the CA-Markov Model: A Case Study in Guanting Reservoir Basin, China. <i>Sustainability</i> , 2020, 12, 3747.	3.2	32
52	Simulating canopy conductance of the Haloxylon ammodendron shrubland in an arid inland river basin of northwest China. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 22-34.	4.8	31
53	Application and Sensitivity Analysis of Artificial Neural Network for Prediction of Chemical Oxygen Demand. <i>Water Resources Management</i> , 2018, 32, 273-283.	3.9	30
54	GA-PIC: An improved Green-Ampt rainfall-runoff model with a physically based infiltration distribution curve for semi-arid basins. <i>Journal of Hydrology</i> , 2020, 586, 124900.	5.4	30

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55	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.	5.4	30
56	Analysis of drought and vulnerability in the North Darfur region of Sudan. <i>Land Degradation and Development</i> , 2018, 29, 4424-4438.	3.9	29
57	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 2: Model evaluation for tropical South America. <i>Geoscientific Model Development</i> , 2019, 12, 4347-4374.	3.6	29
58	Impacts of large-scale oscillations on pan-Arctic terrestrial net primary production. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	27
59	A comprehensive flash flood defense system in China: overview, achievements, and outlook. <i>Natural Hazards</i> , 2018, 92, 727-740.	3.4	26
60	A probabilistic method for streamflow projection and associated uncertainty analysis in a data sparse alpine region. <i>Global and Planetary Change</i> , 2018, 165, 100-113.	3.5	26
61	Evaluation of flood prediction capability of the distributed Grid-Xinjiang model driven by weather research and forecasting precipitation. <i>Journal of Flood Risk Management</i> , 2019, 12, .	3.3	24
62	Sensitivity of pan-Arctic terrestrial net primary productivity simulations to daily surface meteorology from NCEP-NCAR and ERA-40 reanalyses. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	23
63	Large-scale climate patterns and precipitation in an arid endorheic region: linkage and underlying mechanism. <i>Environmental Research Letters</i> , 2016, 11, 044006.	5.2	20
64	Bias-corrected data sets of climate model outputs at uniform space-time resolution for land surface modelling over Amazonia. <i>International Journal of Climatology</i> , 2017, 37, 621-636.	3.5	17
65	Application of a developed distributed hydrological model based on the mixed runoff generation model and 2D kinematic wave flow routing model for better flood forecasting. <i>Atmospheric Science Letters</i> , 2017, 18, 284-293.	1.9	17
66	Improving the flood prediction capability of the Xinjiang model by formulating a new physics-based routing framework and a key routing parameter estimation method. <i>Journal of Hydrology</i> , 2021, 603, 126867.	5.4	17
67	Spatiotemporal changes of precipitation extremes in Bangladesh during 1987–2017 and their connections with climate changes, climate oscillations, and monsoon dynamics. <i>Global and Planetary Change</i> , 2022, 208, 103712.	3.5	17
68	Evaluation of Flood Prediction Capability of the WRF-Hydro Model Based on Multiple Forcing Scenarios. <i>Water (Switzerland)</i> , 2020, 12, 874.	2.7	16
69	Projections of Future Climate Change in Singapore Based on a Multi-Site Multivariate Downscaling Approach. <i>Water (Switzerland)</i> , 2019, 11, 2300.	2.7	15
70	Climatology and changes in hourly precipitation extremes over China during 1970–2018. <i>Science of the Total Environment</i> , 2022, 839, 156297.	8.0	13
71	Characteristics of Urban Waterlogging and Flash Flood Hazards and Their Integrated Preventive Measures: Case Study in Fuzhou, China. <i>Journal of Sustainable Water in the Built Environment</i> , 2018, 4, .	1.6	11
72	Quantifying natural recharge characteristics of shallow aquifers in groundwater overexploitation zone of North China. <i>Water Science and Engineering</i> , 2021, 14, 184-192.	3.2	11

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73	GDBC: A tool for generating global-scale distributed basin morphometry. <i>Environmental Modelling and Software</i> , 2016, 83, 212-223.	4.5	10
74	Application and comparison of coaxial correlation diagram and hydrological model for reconstructing flood series under human disturbance. <i>Journal of Mountain Science</i> , 2016, 13, 1245-1264.	2.0	10
75	Applying a statistical method to streamflow reduction caused by underground mining for coal in the Kuye River basin. <i>Science China Technological Sciences</i> , 2016, 59, 1911-1920.	4.0	8
76	Estimation of Active Stream Network Length in a Hilly Headwater Catchment Using Recession Flow Analysis. <i>Water (Switzerland)</i> , 2017, 9, 348.	2.7	6
77	Predictability of a Physically Based Model for Rainfall-induced Shallow Landslides: Model Development and Case Studies. , 2015, , 165-178.		6
78	Runoff sensitivity over Asia: Role of climate variables and initial soil conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2218-2238.	3.3	4
79	A New Runoff Routing Scheme for Xinâ€™anjiang Model and Its Routing Parameters Estimation Based on Geographical Information. <i>Water (Switzerland)</i> , 2020, 12, 3429.	2.7	4
80	Evaluating performance dependency of a geomorphologic instantaneous unit hydrograph-based hydrological model on DEM resolution. <i>Water Science and Engineering</i> , 2022, 15, 179-188.	3.2	4
81	On simulation improvement of the <sc>N</sc>_oah_<sc>LSM</sc> by coupling with a hydrological model using a doubleâ€™excess runoff production scheme in the <sc>GRAPES</sc>_<sc>M</sc>_eso model. <i>Meteorological Applications</i> , 2017, 24, 512-520.	2.1	3
82	Evaporation Processes and Changes Over the Northern Regions. , 2021, , 101-131.		2
83	Assimilation of surface soil moisture jointly retrieved by multiple microwave satellites into the WRF-Hydro model in ungauged regions: Towards a robust flood simulation and forecasting. <i>Environmental Modelling and Software</i> , 2022, 154, 105421.	4.5	2
84	Hydrometeorological Applications: Severe Weather Precipitation Detection, Estimation, and Forecast. <i>Advances in Meteorology</i> , 2017, 2017, 1-2.	1.6	1
85	Xinâ€™anjiang Nested Experimental Watershed (XAJ-NEW) for Understanding Multiscale Water Cycle: Scientific Objectives and Experimental Design. <i>Engineering</i> , 2021, , .	6.7	1
86	Advances in Remote Sensing and Modeling of Terrestrial Hydrometeorological Processes and Extremes. <i>Advances in Meteorology</i> , 2016, 2016, 1-3.	1.6	0
87	Inside Cover Image, Volume 3, Issue 6. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, ii.	6.5	0
88	Evapotranspiration Mapping Utilizing Remote Sensing Data. , 2016, , 17-35.		0
89	An Advanced Distributed Hydrologic Framework. , 2016, , 127-138.		0