

Che-sheng Zhan

List of Publications by Year in descending order

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54
papers

1,676
citations

377584

21
h-index

340414

39
g-index

55
all docs

55
docs citations

55
times ranked

2487
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of climate change on major elements of the hydrological cycle in Aksu River basin, northwest China. <i>International Journal of Climatology</i> , 2022, 42, 5359-5372.	1.5	5
2	Attribution of vegetation coverage change to climate change and human activities based on the geographic detectors in the Yellow River Basin, China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 44693-44708.	2.7	19
3	Evaluation and comparison of CMIP6 and CMIP5 model performance in simulating the runoff. <i>Theoretical and Applied Climatology</i> , 2022, 149, 1451-1470.	1.3	12
4	Evaluation of global terrestrial evapotranspiration in CMIP6 models. <i>Theoretical and Applied Climatology</i> , 2021, 143, 521-531.	1.3	36
5	Quantitative study on characteristics of hydrological drought in arid area of Northwest China under changing environment. <i>Journal of Hydrology</i> , 2021, 597, 126343.	2.3	18
6	Joint probability of drought encounter among three major grain production zones of China under nonstationary climate. <i>Journal of Hydrology</i> , 2021, 603, 126995.	2.3	9
7	Development and Evaluation of a Hydrometeorological Forecasting System Using the Coupled Ocean-Atmosphere-Wave-Sediment Transport (COAWST) Model. <i>Advances in Meteorology</i> , 2021, 2021, 1-17.	0.6	5
8	Comparative analysis of probability distributions for the Standardized Precipitation Index and drought evolution in China during 1961–2015. <i>Theoretical and Applied Climatology</i> , 2020, 139, 1363-1377.	1.3	22
9	Energy-based sustainability assessment of forest ecosystem with the aid of mountain eco-hydrological model in Huanjiang County, China. <i>Journal of Cleaner Production</i> , 2020, 251, 119638.	4.6	25
10	Topographic controls on ecosystem evapotranspiration and net primary productivity under climate warming in the Taihang Mountains, China. <i>Journal of Hydrology</i> , 2020, 581, 124394.	2.3	17
11	Polyacrylamide's function on increasing salinity in shale gas wastewater production. <i>Applied Geochemistry</i> , 2020, 122, 104685.	1.4	3
12	Each 0.5°C of Warming Increases Annual Flood Losses in China by More than US\$60 Billion. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1464-E1474.	1.7	48
13	How is the risk of hydrological drought in the Tarim River Basin, Northwest China?. <i>Science of the Total Environment</i> , 2019, 693, 133555.	3.9	37
14	Analysis of changes in drought and terrestrial water storage in the Tarim River Basin based on principal component analysis. <i>Hydrology Research</i> , 2019, 50, 761-777.	1.1	10
15	Detecting and attributing vegetation changes in Taihang Mountain, China. <i>Journal of Mountain Science</i> , 2019, 16, 337-350.	0.8	16
16	Coupling of a Regional Climate Model with a Crop Development Model and Evaluation of the Coupled Model across China. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 527-540.	1.9	9
17	Evaluating the Dynamics of Groundwater Depletion for an Arid Land in the Tarim Basin, China. <i>Water (Switzerland)</i> , 2019, 11, 186.	1.2	17
18	A review of fully coupled atmosphere-hydrology simulations. <i>Journal of Chinese Geography</i> , 2019, 29, 465-479.	1.5	24

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19	Modeling soil salinization at the downstream of a lowland reservoir. <i>Hydrology Research</i> , 2019, 50, 1202-1215.	1.1	11
20	Diagnosis of Change in Structural Characteristics of Streamflow Series Based on Selection of Complexity Measurement Methods: Fenhe River Basin, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019, 24, .	0.8	6
21	Reconstruction of terrestrial water storage anomalies in Northwest China during 1948â€“2002 using GRACE and GLDAS products. <i>Hydrology Research</i> , 2018, 49, 1594-1607.	1.1	31
22	Comprehensive assessment of drought risk in the arid region of Northwest China based on the global palmer drought severity index gridded data. <i>Science of the Total Environment</i> , 2018, 627, 951-962.	3.9	59
23	Analysis of the spatiotemporal changes in terrestrial water storage anomaly and impacting factors over the typical mountains in China. <i>International Journal of Remote Sensing</i> , 2018, 39, 505-524.	1.3	13
24	Estimation of water consumption for ecosystems based on Vegetation Interfaces Processes Model: A case study of the Aksu River Basin, Northwest China. <i>Science of the Total Environment</i> , 2018, 613-614, 186-195.	3.9	21
25	Impact of environmental factors on water quality at multiple spatial scales and its spatial variation in Huai River Basin, China. <i>Science China Earth Sciences</i> , 2018, 61, 82-92.	2.3	13
26	Impacts of Water Consumption in the Haihe Plain on the Climate of the Taihang Mountains, North China. <i>Advances in Meteorology</i> , 2018, 2018, 1-15.	0.6	3
27	Spatial Downscaling of GPM Annual and Monthly Precipitation Using Regression-Based Algorithms in a Mountainous Area. <i>Advances in Meteorology</i> , 2018, 2018, 1-13.	0.6	32
28	Identification of Hydrological Drought in Eastern China Using a Time-Dependent Drought Index. <i>Water (Switzerland)</i> , 2018, 10, 315.	1.2	6
29	Separating the impacts of climate change and human activities on actual evapotranspiration in Aksu River Basin ecosystems, Northwest China. <i>Hydrology Research</i> , 2018, 49, 1740-1752.	1.1	13
30	Evapotranspiration estimation using Landsat-8 data with a two-layer framework. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 016034.	0.6	0
31	Implementation of evapotranspiration data assimilation with catchment scale distributed hydrological model via an ensemble Kalman Filter. <i>Journal of Hydrology</i> , 2017, 549, 685-702.	2.3	37
32	Monitoring the spatio-temporal changes of terrestrial water storage using GRACE data in the Tarim River basin between 2002 and 2015. <i>Science of the Total Environment</i> , 2017, 595, 218-228.	3.9	81
33	Integration of remote sensing evapotranspiration (ET) model and hydrologic model for mapping daily ET time series at river basin scale. <i>Hydrology Research</i> , 2017, 48, 311-325.	1.1	3
34	Spatial Variation, Pollution Assessment and Source Identification of Major Nutrients in Surface Sediments of Nansi Lake, China. <i>Water (Switzerland)</i> , 2017, 9, 444.	1.2	10
35	Study on the Variation of Terrestrial Water Storage and the Identification of Its Relationship with Hydrological Cycle Factors in the Tarim River Basin, China. <i>Advances in Meteorology</i> , 2017, 2017, 1-11.	0.6	3
36	Climatic impacts of the Middle Route of the Southâ€“toâ€“North Water Transfer Project over the Haihe River basin in North China simulated by a regional climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8983-8999.	1.2	17

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37	An Experimental Study on Evapotranspiration Data Assimilation Based on the Hydrological Model. <i>Water Resources Management</i> , 2016, 30, 5263-5279.	1.9	15
38	Runoff of arid and semi-arid regions simulated and projected by CLM-DTVGM and its multi-scale fluctuations as revealed by EEMD analysis. <i>Journal of Arid Land</i> , 2016, 8, 506-520.	0.9	11
39	A review on evapotranspiration data assimilation based on hydrological models. <i>Journal of Chinese Geography</i> , 2016, 26, 230-242.	1.5	18
40	Effects of Climate Change and Human Activities on Surface Runoff in the Luan River Basin. <i>Advances in Meteorology</i> , 2015, 2015, 1-12.	0.6	39
41	Regional estimation and validation of remotely sensed evapotranspiration in China. <i>Catena</i> , 2015, 133, 35-42.	2.2	12
42	An enhanced environmental multimedia modeling system based on fuzzy-set approach: I. theoretical framework and model development. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 494-505.	3.3	5
43	Global sensitivity analysis in hydrological modeling: Review of concepts, methods, theoretical framework, and applications. <i>Journal of Hydrology</i> , 2015, 523, 739-757.	2.3	386
44	Effects of anthropogenic groundwater exploitation on land surface processes: A case study of the Haihe River Basin, northern China. <i>Journal of Hydrology</i> , 2015, 524, 625-641.	2.3	52
45	A new framework to evaluate ecosystem health: a case study in the Wei River basin, China. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 460.	1.3	25
46	An enhanced environmental multimedia modeling system based on fuzzy-set approach: II. Model validation and application. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 1025-1035.	3.3	3
47	Climatic responses to anthropogenic groundwater exploitation: a case study of the Haihe River Basin, Northern China. <i>Climate Dynamics</i> , 2014, 42, 2125-2145.	1.7	55
48	An Integrated Approach for Partitioning the Effect of Climate Change and Human Activities on Surface Runoff. <i>Water Resources Management</i> , 2014, 28, 3843-3858.	1.9	41
49	An efficient integrated approach for global sensitivity analysis of hydrological model parameters. <i>Environmental Modelling and Software</i> , 2013, 41, 39-52.	1.9	136
50	Hybrid Optimization Rainfall-Runoff Simulation Based on Xinanjiang Model and Artificial Neural Network. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 1033-1041.	0.8	37
51	Integration of a statistical emulator approach with the SCE-UA method for parameter optimization of a hydrological model. <i>Science Bulletin</i> , 2012, 57, 3397-3403.	1.7	24
52	An efficient global sensitivity analysis approach for distributed hydrological model. <i>Journal of Chinese Geography</i> , 2012, 22, 209-222.	1.5	29
53	Water Quality Management in China: The Case of the Huai River Basin. <i>International Journal of Water Resources Development</i> , 2011, 27, 167-180.	1.2	66
54	Advances in the study of uncertainty quantification of large-scale hydrological modeling system. <i>Journal of Chinese Geography</i> , 2011, 21, 801-819.	1.5	31