Ji Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

72	2,957	156536	198040
papers	citations	32 h-index	52 g-index

73	73	73	3536
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards a greater awareness for drought mitigation in China. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1669-1687.	1.9	4
2	Decipher soil organic carbon dynamics and driving forces across China using machine learning. Global Change Biology, 2022, 28, 3394-3410.	4.2	52
3	Deciphering the CO2 emissions and emission intensity of cement sector in China through decomposition analysis. Journal of Cleaner Production, 2022, 352, 131627.	4.6	39
4	Doubling of annual forest carbon loss over the tropics during the early twenty-first century. Nature Sustainability, 2022, 5, 444-451.	11.5	47
5	Developing an integrative method and design guidelines for achieving systemic circularity in the construction industry. Journal of Cleaner Production, 2022, 354, 131752.	4.6	21
6	High-resolution mapping of wildfire drivers in California based on machine learning. Science of the Total Environment, 2022, 833, 155155.	3.9	10
7	Quantitative analysis of nonlinear climate change impact on drought based on the standardized precipitation and evapotranspiration index. Ecological Indicators, 2021, 121, 107107.	2.6	24
8	A new method for estimation of spatially distributed rainfall through merging satellite observations, raingauge records, and terrain digital elevation model data. Journal of Hydro-Environment Research, 2020, 28, 1-14.	1.0	40
9	Quantifying the contributions of climate variation, land use change, and engineering measures for dramatic reduction in streamflow and sediment in a typical loess watershed, China. Ecological Engineering, 2020, 142, 105611.	1.6	50
10	Dramatic uneven urbanization of large cities throughout the world in recent decades. Nature Communications, 2020, 11, 5366.	5.8	249
11	Observed Microphysical Characteristics of Stratiform and Convective Precipitation over an Inland Arid Region of the Qinghaiâ€“Tibet Plateau. Water (Switzerland), 2020, 12, 2300.	1.2	4
12	Assessing future socioeconomic drought events under a changing climate over the Pearl River basin in South China. Journal of Hydrology: Regional Studies, 2020, 30, 100700.	1.0	19
13	Impacts of Anthropogenic Heat Flux and Urban Land-Use Change on Frontal Rainfall near Coastal Regions: A Case Study of a Rainstorm over the Pearl River Delta, South China. Journal of Applied Meteorology and Climatology, 2020, 59, 363-379.	0.6	19
14	Climate change-induced drought evolution over the past 50 years in the southern Chinese Loess Plateau. Environmental Modelling and Software, 2019, 122, 104519.	1.9	42
15	The Role of Large Dams in Promoting Economic Development under the Pressure of Population Growth. Sustainability, 2019, 11, 2965.	1.6	47
16	Profound Impacts of the China Meteorological Assimilation Dataset for SWAT model (CMADS). Water (Switzerland), 2019, 11, 832.	1.2	23
17	An improved operation-based reservoir scheme integrated with Variable Infiltration Capacity model for multiyear and multipurpose reservoirs. Journal of Hydrology, 2019, 571, 365-375.	2.3	35
18	Application and Evaluation of the China Meteorological Assimilation Driving Datasets for the SWAT Model (CMADS) in Poorly Gauged Regions in Western China. Water (Switzerland), 2019, 11, 2171.	1.2	18

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19	High-resolution simulation and validation of soil moisture in the arid region of Northwest China. Scientific Reports, 2019, 9, 17227.	1.6	10
20	Climatic and hydrologic controls on net primary production in a semiarid loess watershed. Journal of Hydrology, 2019, 568, 803-815.	2.3	47
21	Exploration of severities of rainfall and runoff extremes in ungauged catchments: A case study of Lai Chi Wo in Hong Kong, China. Science of the Total Environment, 2018, 634, 640-649.	3.9	19
22	Time-lag effects of vegetation responses to soil moisture evolution: a case study in the Xijiang basin in South China. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2423-2432.	1.9	20
23	Diagnosis of evapotranspiration controlling factors in the Heihe River basin, northwest China. Hydrology Research, 2018, 49, 1292-1303.	1.1	4
24	A new method and a new index for identifying socioeconomic drought events under climate change: A case study of the East River basin in China. Science of the Total Environment, 2018, 616-617, 363-375.	3.9	81
25	Characteristics of climate change and its relationship with land use/cover change in Yunnan Province, China. International Journal of Climatology, 2018, 38, 2520-2537.	1.5	48
26	Cloud-based smart asset management for urban flood control. Enterprise Information Systems, 2017, 11, 719-737.	3.3	14
27	Comparison of three updating models for real time forecasting: a case study of flood forecasting at the middle reaches of the Huai River in East China. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1471-1484.	1.9	14
28	Review of Approaches and Recommendations for Improving Resilience of Water Management Infrastructure: The Case for Large Dams. Journal of Infrastructure Systems, 2017, 23, .	1.0	7
29	Multi-scale streamflow variability responses to precipitation over the headwater catchments in southern China. Journal of Hydrology, 2017, 551, 14-28.	2.3	22
30	Coherent modes in multiâ€scale variability of precipitation over the headwater catchments in the Pearl River basin, South China. Hydrological Processes, 2017, 31, 948-955.	1.1	9
31	Statistical Modeling of Hydroclimatological Processes. Advances in Meteorology, 2016, 2016, 1-2.	0.6	0
32	Coupling the k-nearest neighbor procedure with the Kalman filter for real-time updating of the hydraulic model in flood forecasting. International Journal of Sediment Research, 2016, 31, 149-158.	1.8	65
33	Event-based hydrological modeling for detecting dominant hydrological process and suitable model strategy for semi-arid catchments. Journal of Hydrology, 2016, 542, 292-303.	2.3	56
34	A wavelet perspective on variabilities of hydrological processes in conjunction with geomorphic analysis over the Pearl River basin in South China. Journal of Hydrology, 2016, 542, 392-409.	2.3	25
35	A MODIS-based method for detecting large-scale vegetation disturbance due to natural hazards: a case study of Wenchuan earthquake stricken regions in China. Stochastic Environmental Research and Risk Assessment, 2016, 30, 2243-2254.	1.9	4
36	Population, water, food, energy and dams. Renewable and Sustainable Energy Reviews, 2016, 56, 18-28.	8.2	168

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37	Simulation of Summer Hourly Stream Flow by Applying TOPMODEL and Two Routing Algorithms to the Sparsely Gauged Lhasa River Basin in China. Water (Switzerland), 2015, 7, 4041-4053.	1.2	14
38	A service-oriented architecture for ensemble flood forecast from numerical weather prediction. Journal of Hydrology, 2015, 527, 933-942.	2.3	42
39	Exploration of drought evolution using numerical simulations over the Xijiang (West River) basin in South China. Journal of Hydrology, 2015, 526, 68-77.	2.3	69
40	Representation of global precipitation anomalies using four major climate patterns. Science China Technological Sciences, 2015, 58, 927-934.	2.0	12
41	Local-To-Regional Landscape Drivers of Extreme Weather and Climate: Implications for Water Infrastructure Resilience. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	22
42	What Do Experienced Water Managers Think of Water Resources of Our Nation and Its Management Infrastructure?. PLoS ONE, 2015, 10, e0142073.	1.1	7
43	Terrestrial hydrological responses to precipitation variability in Southwest China with emphasis on drought. Hydrological Sciences Journal, 2014, 59, 325-335.	1.2	12
44	Spatial distribution of monthly potential evaporation over mountainous regions: case of the Lhasa River basin, China. Hydrological Sciences Journal, 2014, 59, 1856-1871.	1.2	32
45	Daily anomalous high flow (DAHF) of a headwater catchment over the East River basin in South China. Journal of Hydrology, 2014, 519, 284-294.	2.3	3
46	Diagnosing Climate Change and Hydrological Responses in the Past Decades for a Minimally-disturbed Headwater Basin in South China. Water Resources Management, 2014, 28, 4385-4400.	1.9	16
47	Teleconnection between ENSO and climate in South China. Stochastic Environmental Research and Risk Assessment, 2014, 28, 927-941.	1.9	14
48	Parallelization of a hydrological model using the message passing interface. Environmental Modelling and Software, 2013, 43, 124-132.	1.9	56
49	Impacts of increased CO2 on the hydrologic response over the Xijiang (West River) basin, South China. Journal of Hydrology, 2013, 505, 218-227.	2.3	23
50	Investigating the effects of point source and nonpoint source pollution on the water quality of the East River (Dongjiang) in South China. Ecological Indicators, 2013, 32, 294-304.	2.6	159
51	Analyzing the Water Budget and Hydrological Characteristics and Responses to Land Use in a Monsoonal Climate River Basin in South China. Environmental Management, 2013, 51, 1174-1186.	1.2	25
52	Estimating irrigation water demand using an improved method and optimizing reservoir operation for water supply and hydropower generation: A case study of the Xinfengjiang reservoir in southern China. Agricultural Water Management, 2013, 116, 110-121.	2.4	90
53	An Operation-Based Scheme for a Multiyear and Multipurpose Reservoir to Enhance Macroscale Hydrologic Models. Journal of Hydrometeorology, 2012, 13, 270-283.	0.7	50
54	Modeling of soil erosion and sediment transport in the East River Basin in southern China. Science of the Total Environment, 2012, 441, 159-168.	3.9	69

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55	Urbanization eases water crisis in China. Environmental Development, 2012, 2, 142-144.	1.8	6
56	Advancing representation of hydrologic processes in the Soil and Water Assessment Tool (SWAT) through integration of the TOPographic MODEL (TOPMODEL) features. Journal of Hydrology, 2012, 420-421, 319-328.	2.3	43
57	Dynamic parallelization of hydrological model simulations. Environmental Modelling and Software, 2011, 26, 1736-1746.	1.9	65
58	Regional climate change and local urbanization effects on weather variables in Southeast China. Stochastic Environmental Research and Risk Assessment, 2011, 25, 555-565.	1.9	42
59	A modified binary tree codification of drainage networks to support complex hydrological models. Computers and Geosciences, 2010, 36, 1427-1435.	2.0	34
60	Using MODIS EVI to detect vegetation damage caused by the 2008 ice and snow storms in south China. Journal of Geophysical Research, 2010, 115, .	3.3	49
61	Terrestrial hydrological features of the Pearl River basin in South China. Journal of Hydro-Environment Research, 2010, 4, 279-288.	1.0	42
62	GEOGRAPHIC FEATURES OF SEVERLY AFFECTED VEGETATED AREAS IN THE NANLING MOUNTAINS DUE TO THE 2008 ICE STORMS IN SOUTHERN CHINA. Asian Geographer, 2010, 27, 145-160.	0.4	0
63	A Mainland China Homogenized Historical Temperature Dataset of 1951â€“2004. Bulletin of the American Meteorological Society, 2009, 90, 1062-1065.	1.7	96
64	Simulation of nitrogen and phosphorus loads in the Dongjiang River basin in South China using SWAT. Frontiers of Earth Science, 2009, 3, 273-278.	0.5	17
65	Quantification of effects of climate variations and human activities on runoff by a monthly water balance model: A case study of the Chaobai River basin in northern China. Water Resources Research, 2009, 45, .	1.7	242
66	Application of Vic and A Routing Scheme to Pearl River Basin in South China. , 2009, , 72-76.		11
67	Suspended sediment load transport in the Mississippi River basin at St. Louis: temporal scaling and nonlinear determinism. Earth Surface Processes and Landforms, 2007, 32, 269-280.	1.2	12
68	Case studies of seasonal rainfall forecasts for Hong Kong and its vicinity using a regional climate model. Natural Hazards, 2007, 42, 193-207.	1.6	2
69	Cosmic ray labeling of erosion surfaces II: Special cases of exposure histories of boulders, soils and beach terraces. Earth and Planetary Science Letters, 2005, 236, 797-813.	1.8	32
70	A Modeling Study of the ENSO Influence on the Terrestrial Energy Profile in North America. Journal of Climate, 2004, 17, 1657-1670.	1.2	19
71	Role of Terrestrial Hydrologic Memory in Modulating ENSO Impacts in North America. Journal of Climate, 2002, 15, 3569-3585.	1.2	46
72	Topographic Influence on the Seasonal and Interannual Variation of Water and Energy Balance of Basins in North America. Journal of Climate, 2001, 14, 1989-2014.	1.2	128