

Xi Chen

List of Publications by Year in descending order

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54
papers

1,202
citations

304602

22
h-index

395590

33
g-index

61
all docs

61
docs citations

61
times ranked

1298
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of land use and land cover changes on soil moisture and hydraulic conductivity along the karst hillslopes of southwest China. <i>Environmental Earth Sciences</i> , 2009, 59, 811-820.	1.3	74
2	Modelling hydrological processes influenced by soil, rock and vegetation in a small karst basin of southwest China. <i>Hydrological Processes</i> , 2011, 25, 2456-2470.	1.1	60
3	Characterizing the heterogeneity of karst critical zone and its hydrological function: An integrated approach. <i>Hydrological Processes</i> , 2018, 32, 2932-2946.	1.1	58
4	Storage dynamics, hydrological connectivity and flux ages in a karst catchment: conceptual modelling using stable isotopes. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 51-71.	1.9	51
5	Effect of catchment properties on runoff coefficient in a karst area of southwest China. <i>Hydrological Processes</i> , 2014, 28, 3691-3702.	1.1	49
6	Spatial distribution and temporal trends in daily and monthly precipitation concentration indices in the upper reaches of the Huai River, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 201-212.	1.9	48
7	Evolution of hydrological drought under the regulation of two reservoirs in the headwater basin of the Huaihe River, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 487-499.	1.9	45
8	Catchment-scale conceptual modelling of water and solute transport in the dual flow system of the karst critical zone. <i>Hydrological Processes</i> , 2017, 31, 3421-3436.	1.1	44
9	Environmental Groundwater Depth for Groundwater-Dependent Terrestrial Ecosystems in Arid/Semiarid Regions: A Review. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 763.	1.2	43
10	Hydrologic Evaluation of TRMM and GPM IMERG Satellite-based Precipitation in a Humid Basin of China. <i>Remote Sensing</i> , 2019, 11, 431.	1.8	42
11	Isotopic analysis of water sources of mountainous plant uptake in a karst plateau of southwest China. <i>Hydrological Processes</i> , 2011, 25, 3666-3675.	1.1	41
12	A framework to assess the impact of ecological water conveyance on groundwater-dependent terrestrial ecosystems in arid inland river basins. <i>Science of the Total Environment</i> , 2020, 709, 136155.	3.9	41
13	Changes in Forest Net Primary Productivity in the Yangtze River Basin and Its Relationship with Climate Change and Human Activities. <i>Remote Sensing</i> , 2019, 11, 1451.	1.8	38
14	Quantifying time lag of epikarst-spring hydrograph response to rainfall using correlation and spectral analyses. <i>Hydrogeology Journal</i> , 2013, 21, 1619-1631.	0.9	33
15	Increasing carbon storage in subtropical forests over the Yangtze River basin and its relations to the major ecological projects. <i>Science of the Total Environment</i> , 2020, 709, 136163.	3.9	32
16	Quantifying Influences of Natural and Anthropogenic Factors on Vegetation Changes Based on Geodetector: A Case Study in the Poyang Lake Basin, China. <i>Remote Sensing</i> , 2021, 13, 5081.	1.8	32
17	Evaluation of the GPM IMERG v5 and TRMM 3B42 v7 Precipitation Products in the Yangtze River Basin, China. <i>Water (Switzerland)</i> , 2019, 11, 1459.	1.2	30
18	Assessing the Ecological Effects of Water Transport to a Lake in Arid Regions: A Case Study of Qingtu Lake in Shiyang River Basin, Northwest China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 145.	1.2	30

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19	Base flow in the Yarlungzangbo River, Tibet, maintained by the isotopically-depleted precipitation and groundwater discharge. <i>Science of the Total Environment</i> , 2021, 759, 143510.	3.9	25
20	Water infiltration underneath single-ring permeameters and hydraulic conductivity determination. <i>Journal of Hydrology</i> , 2011, 398, 135-143.	2.3	24
21	Joint probability of precipitation and reservoir storage for drought estimation in the headwater basin of the Huaihe River, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 1641-1657.	1.9	24
22	Vegetation Response to Groundwater Variation in Arid Environments: Visualization of Research Evolution, Synthesis of Response Types, and Estimation of Groundwater Threshold. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1849.	1.2	24
23	Understanding the effects of climate warming on streamflow and active groundwater storage in an alpine catchment: the upper Lhasa River. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 1145-1157.	1.9	24
24	Modifying SEBAL Model Based on the Trapezoidal Relationship between Land Surface Temperature and Vegetation Index for Actual Evapotranspiration Estimation. <i>Remote Sensing</i> , 2014, 6, 5909-5937.	1.8	23
25	Modeling oasis dynamics driven by ecological water diversion and implications for oasis restoration in arid endorheic basins. <i>Journal of Hydrology</i> , 2021, 593, 125774.	2.3	21
26	Deducing Climatic Elasticity to Assess Projected Climate Change Impacts on Streamflow Change across China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,228.	1.2	20
27	An Improved Optimization Scheme for Representing Hillslopes and Depressions in Karst Hydrology. <i>Water Resources Research</i> , 2020, 56, e2019WR026038.	1.7	18
28	Assessing the impact of human activities on hydrological and sediment changes (1953â€“2000) in nine major catchments of the Loess Plateau, China. <i>River Research and Applications</i> , 2010, 26, 322-340.	0.7	16
29	Analysis of hydrogeological parameters and numerical modeling groundwater in a karst watershed, southwest China. <i>Carbonates and Evaporites</i> , 2013, 28, 89-94.	0.4	16
30	Changes of Precipitationâ€“Runoff Relationship Induced by Climate Variation in a Large Glaciated Basin of the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034367.	1.2	16
31	Changes of Grassland Rain Use Efficiency and NDVI in Northwestern China from 1982 to 2013 and Its Response to Climate Change. <i>Water (Switzerland)</i> , 2018, 10, 1689.	1.2	15
32	Assessing environmental water requirement for groundwater-dependent vegetation in arid inland basins by combining the copula joint distribution function and the dual objective optimization: An application to the Turpan Basin, China. <i>Science of the Total Environment</i> , 2021, 799, 149323.	3.9	15
33	Numerical modeling the role of rubber dams on groundwater recharge and phreatic evaporation loss in riparian zones. <i>Environmental Earth Sciences</i> , 2012, 65, 345-352.	1.3	13
34	Simulating the integrated effects of topography and soil properties on runoff generation in hilly forested catchments, South China. <i>Hydrological Processes</i> , 2010, 24, 714-725.	1.1	12
35	Integrating Topography and Soil Properties for Spatial Soil Moisture Storage Modeling. <i>Water (Switzerland)</i> , 2017, 9, 647.	1.2	11
36	The Dominant Driving Force of Forest Change in the Yangtze River Basin, China: Climate Variation or Anthropogenic Activities?. <i>Forests</i> , 2022, 13, 82.	0.9	11

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37	Regionalization of annual runoff characteristics and its indication of co-dependence among hydro-climate-landscape factors in Jinghe River Basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1613-1630.	1.9	10
38	Evaluating the joint use of GPR and ERT on mapping shallow subsurface features of karst critical zone in southwest China. <i>Vadose Zone Journal</i> , 2022, 21, e20172.	1.3	9
39	How can streamflow and climate-landscape data be used to estimate baseflow mean response time?. <i>Journal of Hydrology</i> , 2018, 557, 916-930.	2.3	8
40	Spatiotemporal Evolution of Droughts and Their Teleconnections with Large-Scale Climate Indices over Guizhou Province in Southwest China. <i>Water (Switzerland)</i> , 2019, 11, 2104.	1.2	8
41	Using hysteretic behaviour and hydrograph classification to identify hydrological function across the hillslope-depression-stream continuum in a karst catchment. <i>Hydrological Processes</i> , 2020, 34, 3464-3480.	1.1	8
42	Influences of climate variation on thawing/freezing processes in the northeast of Three-River Source Region China. <i>Cold Regions Science and Technology</i> , 2013, 86, 86-97.	1.6	6
43	A Multi-Dimensional Hydro-Climatic Similarity and Classification Framework Based on Budyko Theory for Continental-Scale Applications in China. <i>Water (Switzerland)</i> , 2019, 11, 319.	1.2	5
44	Changes in water use efficiency and their relations to climate change and human activities in three forestry regions of China. <i>Theoretical and Applied Climatology</i> , 2021, 144, 1297-1310.	1.3	5
45	Improved Inverse Modeling by Separating Model Structural and Observational Errors. <i>Water (Switzerland)</i> , 2018, 10, 1151.	1.2	4
46	Changes in vegetation and surface water balance at basin-scale in Central China with rising atmospheric CO ₂ . <i>Climatic Change</i> , 2019, 155, 437-454.	1.7	4
47	Dissolved inorganic carbon isotopes of a typical alpine river on the Tibetan Plateau revealing carbon sources, wetland effect and river recharge. <i>Hydrological Processes</i> , 2021, 35, e14402.	1.1	4
48	Role of hydro-geochemical functions on karst critical zone hydrology for sustainability of water resources and ecology in Southwest China. <i>Acta Geochimica</i> , 2017, 36, 494-497.	0.7	3
49	Characterization of the Coherence Between Soil Moisture and Precipitation at Regional Scales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034340.	1.2	3
50	Temporal change of spatial heterogeneity and its effect on regional trend of annual precipitation heterogeneity indices. <i>Hydrological Processes</i> , 2017, 31, 3178-3190.	1.1	2
51	Hydro-stochastic interpolation coupling with the Budyko approach for prediction of mean annual runoff. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2891-2901.	1.9	2
52	The Use of River Flow Discharge and Sediment Load for Multi-Objective Calibration of SWAT Based on the Bayesian Inference. <i>Water (Switzerland)</i> , 2018, 10, 1662.	1.2	1
53	A generalized probability distribution of annual discharge derived from correlation dimension analysis in six main basins of China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 2071-2082.	1.9	1
54	Modeling Groundwater-Fed Irrigation and Its Impact on Streamflow and Groundwater Depth in an Agricultural Area of Huaihe River Basin, China. <i>Water (Switzerland)</i> , 2021, 13, 2220.	1.2	0