

Qiang Zhang

List of Publications by Year in descending order

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124
papers

6,285
citations

53751

45
h-index

82499

72
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all docs

124
docs citations

124
times ranked

4564
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupled estimation of 500m and 8-day resolution global evapotranspiration and gross primary production in 2002–2017. <i>Remote Sensing of Environment</i> , 2019, 222, 165-182.	4.6	389
2	A spatial assessment of hydrologic alteration caused by dam construction in the middle and lower Yellow River, China. <i>Hydrological Processes</i> , 2008, 22, 3829-3843.	1.1	235
3	Influences of ENSO, NAO, IOD and PDO on seasonal precipitation regimes in the Yangtze River basin, China. <i>International Journal of Climatology</i> , 2015, 35, 3556-3567.	1.5	219
4	Response of vegetation to different time-scales drought across China: Spatiotemporal patterns, causes and implications. <i>Global and Planetary Change</i> , 2017, 152, 1-11.	1.6	168
5	Flood-induced mortality across the globe: Spatiotemporal pattern and influencing factors. <i>Science of the Total Environment</i> , 2018, 643, 171-182.	3.9	156
6	Variability of Water Resource in the Yellow River Basin of Past 50 Years, China. <i>Water Resources Management</i> , 2009, 23, 1157-1170.	1.9	138
7	Contribution of multiple climatic variables and human activities to streamflow changes across China. <i>Journal of Hydrology</i> , 2017, 545, 145-162.	2.3	134
8	Vegetation phenology on the Qinghai-Tibetan Plateau and its response to climate change (1982–2013). <i>Agricultural and Forest Meteorology</i> , 2018, 248, 408-417.	1.9	134
9	Spatio-temporal variations of precipitation extremes in Xinjiang, China. <i>Journal of Hydrology</i> , 2012, 434-435, 7-18.	2.3	133
10	Precipitation and streamflow changes in China: Changing patterns, causes and implications. <i>Journal of Hydrology</i> , 2011, 410, 204-216.	2.3	127
11	Evaluation of flood frequency under non-stationarity resulting from climate indices and reservoir indices in the East River basin, China. <i>Journal of Hydrology</i> , 2015, 527, 565-575.	2.3	111
12	Analysis of the periods of maximum consecutive wet days in China. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	108
13	Spatio-temporal relations between temperature and precipitation regimes: Implications for temperature-induced changes in the hydrological cycle. <i>Global and Planetary Change</i> , 2013, 111, 57-76.	1.6	107
14	Spatiotemporal behavior of floods and droughts and their impacts on agriculture in China. <i>Global and Planetary Change</i> , 2015, 131, 63-72.	1.6	107
15	Spatial-temporal changes of precipitation structure across the Pearl River basin, China. <i>Journal of Hydrology</i> , 2012, 440-441, 113-122.	2.3	105
16	Spatial-temporal precipitation changes (1956–2000) and their implications for agriculture in China. <i>Global and Planetary Change</i> , 2012, 82-83, 86-95.	1.6	104
17	Copula-based spatio-temporal patterns of precipitation extremes in China. <i>International Journal of Climatology</i> , 2013, 33, 1140-1152.	1.5	100
18	Statistical behaviours of precipitation regimes in China and their links with atmospheric circulation 1960–2005. <i>International Journal of Climatology</i> , 2011, 31, 1665-1678.	1.5	98

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19	Summer extreme precipitation in eastern China: Mechanisms and impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2766-2778.	1.2	98
20	Regional Frequency Analysis of Droughts in China: A Multivariate Perspective. <i>Water Resources Management</i> , 2015, 29, 1767-1787.	1.9	96
21	SPI-based evaluation of drought events in Xinjiang, China. <i>Natural Hazards</i> , 2012, 64, 481-492.	1.6	95
22	Evaluation of impacts of climate change and human activities on streamflow in the Poyang Lake basin, China. <i>Hydrological Processes</i> , 2016, 30, 2562-2576.	1.1	91
23	The Impact of Tropical Cyclones on Extreme Precipitation over Coastal and Inland Areas of China and Its Association to ENSO. <i>Journal of Climate</i> , 2018, 31, 1865-1880.	1.2	78
24	Multisource data based agricultural drought monitoring and agricultural loss in China. <i>Global and Planetary Change</i> , 2019, 172, 298-306.	1.6	74
25	Modified Palmer Drought Severity Index: Model improvement and application. <i>Environment International</i> , 2019, 130, 104951.	4.8	72
26	Attribution of Global Soil Moisture Drying to Human Activities: A Quantitative Viewpoint. <i>Geophysical Research Letters</i> , 2019, 46, 2573-2582.	1.5	72
27	Changes in magnitude and frequency of heavy precipitation across China and its potential links to summer temperature. <i>Journal of Hydrology</i> , 2017, 547, 718-731.	2.3	71
28	Hydrologic alteration along the Middle and Upper East River (Dongjiang) basin, South China: a visually enhanced mining on the results of RVA method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010, 24, 9-18.	1.9	70
29	A remote sensing and artificial neural network-based integrated agricultural drought index: Index development and applications. <i>Catena</i> , 2020, 186, 104394.	2.2	70
30	Spatiotemporal properties of droughts and related impacts on agriculture in Xinjiang, China. <i>International Journal of Climatology</i> , 2015, 35, 1254-1266.	1.5	65
31	Agricultural drought monitoring across Inner Mongolia, China: Model development, spatiotemporal patterns and impacts. <i>Journal of Hydrology</i> , 2019, 571, 793-804.	2.3	63
32	An evaluation of impacts of DEM resolution and parameter correlation on TOPMODEL modeling uncertainty. <i>Journal of Hydrology</i> , 2010, 394, 370-383.	2.3	60
33	GCMs-based spatiotemporal evolution of climate extremes during the 21 st century in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,017.	1.2	59
34	Xinjiang model combined with Curve Number to simulate the effect of land use change on environmental flow. <i>Journal of Hydrology</i> , 2014, 519, 3142-3152.	2.3	58
35	Future joint probability behaviors of precipitation extremes across China: Spatiotemporal patterns and implications for flood and drought hazards. <i>Global and Planetary Change</i> , 2015, 124, 107-122.	1.6	58
36	Homogenization of precipitation and flow regimes across China: Changing properties, causes and implications. <i>Journal of Hydrology</i> , 2015, 530, 462-475.	2.3	55

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37	Hydrological responses to climatic changes in the Yellow River basin, China: Climatic elasticity and streamflow prediction. <i>Journal of Hydrology</i> , 2017, 554, 635-645.	2.3	55
38	Impacts of ENSO and ENSO Modoki+A regimes on seasonal precipitation variations and possible underlying causes in the Huai River basin, China. <i>Journal of Hydrology</i> , 2016, 533, 308-319.	2.3	54
39	Impact of urbanization on nonstationarity of annual and seasonal precipitation extremes in China. <i>Journal of Hydrology</i> , 2019, 575, 638-655.	2.3	54
40	Double increase in precipitation extremes across China in a 1.5°C/2.0°C warmer climate. <i>Science of the Total Environment</i> , 2020, 746, 140807.	3.9	52
41	Flood frequency analysis with consideration of hydrological alterations: Changing properties, causes and implications. <i>Journal of Hydrology</i> , 2014, 519, 803-813.	2.3	49
42	Magnitude, frequency and timing of floods in the Tarim River basin, China: Changes, causes and implications. <i>Global and Planetary Change</i> , 2016, 139, 44-55.	1.6	48
43	Spatial downscaling of TRMM-based precipitation data using vegetative response in Xinjiang, China. <i>International Journal of Climatology</i> , 2017, 37, 3895-3909.	1.5	48
44	Nonparametric Integrated Agrometeorological Drought Monitoring: Model Development and Application. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 73-88.	1.2	48
45	Hydrological effects of climate variability and vegetation dynamics on annual fluvial water balance in global large river basins. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4047-4060.	1.9	48
46	Topography-based spatial patterns of precipitation extremes in the Poyang Lake basin, China: Changing properties and causes. <i>Journal of Hydrology</i> , 2014, 512, 229-239.	2.3	47
47	Max-stable based evaluation of impacts of climate indices on extreme precipitation processes across the Poyang Lake basin, China. <i>Global and Planetary Change</i> , 2014, 122, 271-281.	1.6	46
48	Stationarity of annual flood peaks during 1951–2010 in the Pearl River basin, China. <i>Journal of Hydrology</i> , 2014, 519, 3263-3274.	2.3	45
49	Intensifying effects of El Niño events on winter precipitation extremes in southeastern China. <i>Climate Dynamics</i> , 2020, 54, 631-648.	1.7	44
50	Abrupt behaviors of the streamflow of the Pearl River basin and implications for hydrological alterations across the Pearl River Delta, China. <i>Journal of Hydrology</i> , 2009, 377, 274-283.	2.3	42
51	Hydrological effects of cropland and climatic changes in arid and semi-arid river basins: A case study from the Yellow River basin, China. <i>Journal of Hydrology</i> , 2017, 549, 547-557.	2.3	41
52	Evaluation of Remotely Sensed and Reanalysis Soil Moisture Against In Situ Observations on the Himalayan–Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7132-7148.	1.2	40
53	A new statistical downscaling approach for global evaluation of the CMIP5 precipitation outputs: Model development and application. <i>Science of the Total Environment</i> , 2019, 690, 1048-1067.	3.9	40
54	Spatiotemporal variations of pan evaporation in China during 1960–2005: changing patterns and causes. <i>International Journal of Climatology</i> , 2015, 35, 903-912.	1.5	39

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55	Future Changes in Floods and Water Availability across China: Linkage with Changing Climate and Uncertainties. <i>Journal of Hydrometeorology</i> , 2016, 17, 1295-1314.	0.7	38
56	Variations of dryness/wetness across China: Changing properties, drought risks, and causes. <i>Global and Planetary Change</i> , 2017, 155, 1-12.	1.6	38
57	Multisource Data-Based Integrated Agricultural Drought Monitoring in the Huai River Basin, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,751.	1.2	38
58	Fractal-based evaluation of the effect of water reservoirs on hydrological processes: the dams in the Yangtze River as a case study. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 263-279.	1.9	37
59	Nonstationarity-based evaluation of flood frequency and flood risk in the Huai River basin, China. <i>Journal of Hydrology</i> , 2018, 567, 393-404.	2.3	36
60	Dynamic vulnerability of ecological systems to climate changes across the Qinghai-Tibet Plateau, China. <i>Ecological Indicators</i> , 2022, 134, 108483.	2.6	36
61	Intensification and Expansion of Soil Moisture Drying in Warm Season Over Eurasia Under Global Warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3765-3782.	1.2	35
62	Is Himalayan-Tibetan Plateau "drying"? Historical estimations and future trends of surface soil moisture. <i>Science of the Total Environment</i> , 2019, 658, 374-384.	3.9	35
63	Drought risk assessment in China: Evaluation framework and influencing factors. <i>Geography and Sustainability</i> , 2020, 1, 220-228.	1.9	35
64	Spatiotemporal patterns of annual and seasonal precipitation extreme distributions across China and potential impact of tropical cyclones. <i>International Journal of Climatology</i> , 2017, 37, 3949-3962.	1.5	34
65	Decreased Streamflow in the Yellow River Basin, China: Climate Change or Human-Induced?. <i>Water (Switzerland)</i> , 2017, 9, 116.	1.2	34
66	Increasing population exposure to global warm-season concurrent dry and hot extremes under different warming levels. <i>Environmental Research Letters</i> , 2021, 16, 094002.	2.2	34
67	Tropical Cyclonic Rainfall in China: Changing Properties, Seasonality, and Causes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4476-4489.	1.2	31
68	Spatiotemporal impact of soil moisture on air temperature across the Tibet Plateau. <i>Science of the Total Environment</i> , 2019, 649, 1338-1348.	3.9	31
69	Nonstationarity in the occurrence rate of floods in the Tarim River basin, China, and related impacts of climate indices. <i>Global and Planetary Change</i> , 2016, 142, 1-13.	1.6	30
70	Non-stationarities in the occurrence rate of heavy precipitation across China and its relationship to climate teleconnection patterns. <i>International Journal of Climatology</i> , 2017, 37, 4186-4198.	1.5	29
71	Impacts of anthropogenic warming and uneven regional socio-economic development on global river flood risk. <i>Journal of Hydrology</i> , 2020, 590, 125262.	2.3	29
72	Understanding the Mechanisms of Summer Extreme Precipitation Events in Xinjiang of Arid Northwest China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034111.	1.2	29

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73	Changing spatiotemporal patterns of precipitation extremes in China during 2071â€“2100 based on Earth System Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,537.	1.2	28
74	Reconstruction of high spatial resolution surface air temperature data across China: A new geo-intelligent multisource data-based machine learning technique. <i>Science of the Total Environment</i> , 2019, 665, 300-313.	3.9	28
75	Droughts across China: Drought factors, prediction and impacts. <i>Science of the Total Environment</i> , 2022, 803, 150018.	3.9	27
76	Regionalization-based spatiotemporal variations of precipitation regimes across China. <i>Theoretical and Applied Climatology</i> , 2013, 114, 203-212.	1.3	26
77	The Characteristics and Evaluation of Future Droughts across China through the CMIP6 Multi-Model Ensemble. <i>Remote Sensing</i> , 2022, 14, 1097.	1.8	26
78	Drying in the low-latitude Atlantic Ocean contributed to terrestrial water storage depletion across Eurasia. <i>Nature Communications</i> , 2022, 13, 1849.	5.8	26
79	Observational evidence of summer precipitation deficitâ€“temperature coupling in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,040.	1.2	25
80	A global quantitation of factors affecting evapotranspiration variability. <i>Journal of Hydrology</i> , 2020, 584, 124688.	2.3	25
81	Abrupt behaviours of streamflow and sediment load variations of the Yangtze River basin, China. <i>Hydrological Processes</i> , 2013, 27, 444-452.	1.1	24
82	ENSO-induced drought hazards and wet spells and related agricultural losses across Anhui province, China. <i>Natural Hazards</i> , 2017, 89, 963-983.	1.6	24
83	Varying effects of mining development on ecological conditions and groundwater storage in dry region in Inner Mongolia of China. <i>Journal of Hydrology</i> , 2021, 597, 125759.	2.3	24
84	Modified drought severity index: Model improvement and its application in drought monitoring in China. <i>Journal of Hydrology</i> , 2022, 612, 128097.	2.3	24
85	Changes in siteâ€“scale temperature extremes over China during 2071â€“2100 in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2732-2749.	1.2	23
86	Timing of floods in southeastern China: Seasonal properties and potential causes. <i>Journal of Hydrology</i> , 2017, 552, 732-744.	2.3	23
87	Potential contributions of climate change and urbanization to precipitation trends across China at national, regional and local scales. <i>International Journal of Climatology</i> , 2019, 39, 2998-3012.	1.5	23
88	Variable Urbanization Warming Effects across Metropolitans of China and Relevant Driving Factors. <i>Remote Sensing</i> , 2020, 12, 1500.	1.8	23
89	Landfalling tropical cyclones activities in the south China: intensifying or weakening?. <i>International Journal of Climatology</i> , 2012, 32, 1815-1824.	1.5	22
90	Attribution of Dry and Wet Climatic Changes over Central Asia. <i>Journal of Climate</i> , 2022, 35, 1399-1421.	1.2	22

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91	Asymmetrical Shift Toward Less Light and More Heavy Precipitation in an Urban Agglomeration of East China: Intensification by Urbanization. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	22
92	Global Attribution of Runoff Variance Across Multiple Timescales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13962-13974.	1.2	21
93	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
94	Probabilistic forecasting of seasonal drought behaviors in the Huai River basin, China. <i>Theoretical and Applied Climatology</i> , 2017, 128, 667-677.	1.3	18
95	Nonstationarity-based evaluation of flood risk in the Pearl River basin: changing patterns, causes and implications. <i>Hydrological Sciences Journal</i> , 2017, 62, 246-258.	1.2	18
96	Nonstationarity and clustering of flood characteristics and relations with the climate indices in the Poyang Lake basin, China. <i>Hydrological Sciences Journal</i> , 2017, 62, 1809-1824.	1.2	18
97	Is the Pearl River basin, China, drying or wetting? Seasonal variations, causes and implications. <i>Global and Planetary Change</i> , 2018, 166, 48-61.	1.6	18
98	Attribution of streamflow changes across the globe based on the Budyko framework. <i>Science of the Total Environment</i> , 2021, 794, 148662.	3.9	18
99	Changing structure of the precipitation process during 1960–2005 in Xinjiang, China. <i>Theoretical and Applied Climatology</i> , 2012, 110, 229-244.	1.3	17
100	Eco-Hydrological Requirements in Arid and Semiarid Regions: Case Study of the Yellow River in China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 689-697.	0.8	17
101	Temporal clustering of floods and impacts of climate indices in the Tarim River basin, China. <i>Global and Planetary Change</i> , 2016, 147, 12-24.	1.6	17
102	The changing nature and projection of floods across Australia. <i>Journal of Hydrology</i> , 2020, 584, 124703.	2.3	16
103	Changes in compound hot and dry day and population exposure across China under climate change. <i>International Journal of Climatology</i> , 2022, 42, 2935-2949.	1.5	15
104	Fractional contribution of global warming and regional urbanization to intensifying regional heatwaves across Eurasia. <i>Climate Dynamics</i> , 2022, 59, 1521-1537.	1.7	13
105	Snow Cover in the Three Stable Snow Cover Areas of China and Spatio-Temporal Patterns of the Future. <i>Remote Sensing</i> , 2022, 14, 3098.	1.8	13
106	Amplification of non-stationary drought to heatwave duration and intensity in eastern China: Spatiotemporal pattern and causes. <i>Journal of Hydrology</i> , 2022, 612, 128154.	2.3	13
107	Scaling and clustering effects of extreme precipitation distributions. <i>Journal of Hydrology</i> , 2012, 454-455, 187-194.	2.3	11
108	Hydrological Drought Regimes of the Huai River Basin, China: Probabilistic Behavior, Causes and Implications. <i>Water (Switzerland)</i> , 2019, 11, 2390.	1.2	11

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109	Wintertime precipitation in eastern China and relation to the Madden-Julian oscillation: Spatiotemporal properties, impacts and causes. <i>Journal of Hydrology</i> , 2020, 582, 124477.	2.3	11
110	Attribution of NDVI Dynamics over the Globe from 1982 to 2015. <i>Remote Sensing</i> , 2022, 14, 2706.	1.8	11
111	Hydrological response to large-scale climate variability across the Pearl River basin, China: Spatiotemporal patterns and sensitivity. <i>Global and Planetary Change</i> , 2017, 149, 1-13.	1.6	10
112	The scenario-based variations and causes of future surface soil moisture across China in the twenty-first century. <i>Environmental Research Letters</i> , 2021, 16, 034061.	2.2	10
113	Impacts of Spatial Configuration of Land Surface Features on Land Surface Temperature across Urban Agglomerations, China. <i>Remote Sensing</i> , 2021, 13, 4008.	1.8	9
114	Mining can exacerbate global degradation of dryland. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094490.	1.5	9
115	Hydrological Processes in the Huaihe River Basin, China: Seasonal Variations, Causes and Implications. <i>Chinese Geographical Science</i> , 2018, 28, 636-653.	1.2	7
116	Nonstationary Ecological Instream Flow and Relevant Causes in the Huai River Basin, China. <i>Water (Switzerland)</i> , 2021, 13, 484.	1.2	7
117	Station-based non-linear regression downscaling approach: A new monthly precipitation downscaling technique. <i>International Journal of Climatology</i> , 2021, 41, 5879-5898.	1.5	7
118	Global soil moisture drought identification and responses to natural and anthropogenic forcings. <i>Journal of Hydrology</i> , 2022, 610, 127993.	2.3	7
119	Spatiotemporal Patterns of Extreme Temperature across the Huai River Basin, China, during 1961–2014, and Regional Responses to Global Changes. <i>Sustainability</i> , 2018, 10, 1236.	1.6	6
120	Terrestrial Water Storage in China: Spatiotemporal Pattern and Driving Factors. <i>Sustainability</i> , 2019, 11, 6646.	1.6	6
121	Extreme sea levels along coastal China: uncertainties and implications. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 35, 405-418.	1.9	6
122	Amplifying Flood Risk Across the Lower Yellow River Basin, China, Under Shared Socioeconomic Pathways. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	5
123	Influence of land surface aridification on regional monsoon precipitation in East Asian summer monsoon transition zone. <i>Theoretical and Applied Climatology</i> , 2021, 144, 93-102.	1.3	4
124	Identification of Degradation Areas of Ecological Environment and Degradation Intensity Assessment in the Yellow River Basin. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	4