

# Yaning Chen

## List of Publications by Year in descending order

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139  
papers

7,615  
citations

38660

50  
h-index

62479

80  
g-index

140  
all docs

140  
docs citations

140  
times ranked

4602  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional climate change and its effects on river runoff in the Tarim Basin, China. <i>Hydrological Processes</i> , 2006, 20, 2207-2216.	1.1	231
2	Progress and prospects of climate change impacts on hydrology in the arid region of northwest China. <i>Environmental Research</i> , 2015, 139, 11-19.	3.7	216
3	Have GRACE satellites overestimated groundwater depletion in the Northwest India Aquifer?. <i>Scientific Reports</i> , 2016, 6, 24398.	1.6	202
4	Deriving scaling factors using a global hydrological model to restore GRACE total water storage changes for China's Yangtze River Basin. <i>Remote Sensing of Environment</i> , 2015, 168, 177-193.	4.6	201
5	Influences of recent climate change and human activities on water storage variations in Central Asia. <i>Journal of Hydrology</i> , 2017, 544, 46-57.	2.3	197
6	Why does precipitation in northwest China show a significant increasing trend from 1960 to 2010?. <i>Atmospheric Research</i> , 2016, 167, 275-284.	1.8	196
7	Changes in Central Asia's Water Tower: Past, Present and Future. <i>Scientific Reports</i> , 2016, 6, 35458.	1.6	195
8	Potential impacts of climate change on vegetation dynamics in Central Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12345-12356.	1.2	193
9	Impacts of Climate Change and Human Activities on the Surface Runoff in the Tarim River Basin over the Last Fifty Years. <i>Water Resources Management</i> , 2008, 22, 1159-1171.	1.9	169
10	Estimation of regional irrigation water requirement and water supply risk in the arid region of Northwestern China 1989-2010. <i>Agricultural Water Management</i> , 2013, 128, 55-64.	2.4	154
11	Abrupt change of temperature and precipitation extremes in the arid region of Northwest China. <i>Quaternary International</i> , 2014, 336, 35-43.	0.7	141
12	Trends of major hydroclimatic variables in the Tarim River basin during the past 50 years. <i>Journal of Arid Environments</i> , 2010, 74, 256-267.	1.2	137
13	Why does the temperature rise faster in the arid region of northwest China?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	132
14	Multi-scale assessments of droughts: A case study in Xinjiang, China. <i>Science of the Total Environment</i> , 2018, 630, 444-452.	3.9	131
15	Dynamics of temperature and precipitation extremes and their spatial variation in the arid region of northwest China. <i>Atmospheric Research</i> , 2014, 138, 346-355.	1.8	129
16	Spatial distribution and temporal trends of mean precipitation and extremes in the arid region, northwest of China, during 1960-2010. <i>Hydrological Processes</i> , 2013, 27, 1807-1818.	1.1	124
17	Multivariate assessment and attribution of droughts in Central Asia. <i>Scientific Reports</i> , 2017, 7, 1316.	1.6	122
18	Spatial and temporal trends of climate change in Xinjiang, China. <i>Journal of Chinese Geography</i> , 2011, 21, 1007-1018.	1.5	116

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19	Spatial and temporal variability of drought in the arid region of China and its relationships to teleconnection indices. <i>Journal of Hydrology</i> , 2015, 523, 283-296.	2.3	116
20	Plausible impact of global climate change on water resources in the Tarim River Basin. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 65-73.	0.9	112
21	Temperature and precipitation changes in different environments in the arid region of northwest China. <i>Theoretical and Applied Climatology</i> , 2013, 112, 589-596.	1.3	111
22	Recent climate and hydrological changes in a mountain basin system in Xinjiang, China. <i>Earth-Science Reviews</i> , 2022, 226, 103957.	4.0	107
23	Analysis of changing pan evaporation in the arid region of Northwest China. <i>Water Resources Research</i> , 2013, 49, 2205-2212.	1.7	100
24	Changes in daily climate extremes in the arid area of northwestern China. <i>Theoretical and Applied Climatology</i> , 2013, 112, 15-28.	1.3	98
25	Quantifying the effects of climate variability and human activities on runoff for Kaidu River Basin in arid region of northwest China. <i>Theoretical and Applied Climatology</i> , 2013, 111, 537-545.	1.3	95
26	Land use and land cover change and driving mechanism in the arid inland river basin: a case study of Tarim River, Xinjiang, China. <i>Environmental Earth Sciences</i> , 2013, 68, 591-604.	1.3	91
27	Desiccation of the Tarim River, Xinjiang, China, and mitigation strategy. <i>Quaternary International</i> , 2011, 244, 264-271.	0.7	88
28	The Nonlinear trend of runoff and its response to climate change in the Aksu River, western China. <i>International Journal of Climatology</i> , 2011, 31, 687-695.	1.5	83
29	Hydrology and water resources variation and its response to regional climate change in Xinjiang. <i>Journal of Chinese Geography</i> , 2010, 20, 599-612.	1.5	82
30	Trends in runoff versus climate change in typical rivers in the arid region of northwest China. <i>Quaternary International</i> , 2012, 282, 87-95.	0.7	79
31	Climate change with elevation and its potential impact on water resources in the Tianshan Mountains, Central Asia. <i>Global and Planetary Change</i> , 2015, 135, 28-37.	1.6	79
32	Intensification of extreme precipitation in arid Central Asia. <i>Journal of Hydrology</i> , 2021, 598, 125760.	2.3	77
33	Large Hydrological Processes Changes in the Transboundary Rivers of Central Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5059-5069.	1.2	76
34	Sustainable water management for cross-border resources: The Balkhash Lake Basin of Central Asia, 1931–2015. <i>Journal of Cleaner Production</i> , 2020, 263, 121614.	4.6	76
35	Responses of Surface Runoff to Climate Change and Human Activities in the Arid Region of Central Asia: A Case Study in the Tarim River Basin, China. <i>Environmental Management</i> , 2013, 51, 926-938.	1.2	75
36	Climate change and water storage variability over an arid endorheic region. <i>Journal of Hydrology</i> , 2015, 529, 330-339.	2.3	74

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37	Changes of precipitation extremes in arid Central Asia. <i>Quaternary International</i> , 2017, 436, 16-27.	0.7	74
38	Trends and variability in streamflow and snowmelt runoff timing in the southern Tianshan Mountains. <i>Journal of Hydrology</i> , 2018, 557, 173-181.	2.3	72
39	Rapidly declining surface and terrestrial water resources in Central Asia driven by socio-economic and climatic changes. <i>Science of the Total Environment</i> , 2021, 784, 147193.	3.9	71
40	Response of vegetation NDVI to climatic extremes in the arid region of Central Asia: a case study in Xinjiang, China. <i>Theoretical and Applied Climatology</i> , 2018, 131, 1503-1515.	1.3	67
41	Climate change and its effects on runoff of Kaidu River, Xinjiang, China: A multiple time-scale analysis. <i>Chinese Geographical Science</i> , 2008, 18, 331-339.	1.2	66
42	Hydro-climatic changes and their impacts on vegetation in Xinjiang, Central Asia. <i>Science of the Total Environment</i> , 2019, 660, 724-732.	3.9	64
43	Review article: Hydrological modeling in glacierized catchments of central Asia – status and challenges. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 669-684.	1.9	62
44	The impact of climate change and human activities on the Aral Sea Basin over the past 50 years. <i>Atmospheric Research</i> , 2020, 245, 105125.	1.8	62
45	Trend analysis of temperature and precipitation in the Syr Darya Basin in Central Asia. <i>Theoretical and Applied Climatology</i> , 2015, 120, 521-531.	1.3	60
46	Variation of baseflows in the headstreams of the Tarim River Basin during 1960–2007. <i>Journal of Hydrology</i> , 2013, 487, 98-108.	2.3	59
47	Water and ecological security: dealing with hydroclimatic challenges at the heart of China's Silk Road. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	57
48	Agricultural water demands in Central Asia under 1.5°C and 2.0°C global warming. <i>Agricultural Water Management</i> , 2020, 231, 106020.	2.4	55
49	Runoff responses to climate change in arid region of northwestern China during 1960–2010. <i>Chinese Geographical Science</i> , 2013, 23, 286-300.	1.2	54
50	Progress, Challenges and Prospects of Eco-Hydrological Studies in the Tarim River Basin of Xinjiang, China. <i>Environmental Management</i> , 2013, 51, 138-153.	1.2	54
51	An analysis of terrestrial water storage variations from GRACE and GLDAS: The Tianshan Mountains and its adjacent areas, central Asia. <i>Quaternary International</i> , 2015, 358, 106-112.	0.7	53
52	Quantifying the effects of climate variability, direct and indirect land use change, and human activities on runoff. <i>Journal of Hydrology</i> , 2020, 584, 124684.	2.3	52
53	Climate change and hydrologic process response in the Tarim River Basin over the past 50 years. <i>Science Bulletin</i> , 2006, 51, 25-36.	1.7	51
54	Tracking climate change in Central Asia through temperature and precipitation extremes. <i>Journal of Chinese Geography</i> , 2019, 29, 3-28.	1.5	51

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55	Wavelet analysis and nonparametric test for climate change in Tarim River Basin of Xinjiang during 1959–2006. <i>Chinese Geographical Science</i> , 2009, 19, 306-313.	1.2	49
56	Water resource formation and conversion and water security in arid region of Northwest China. <i>Journal of Chinese Geography</i> , 2016, 26, 939-952.	1.5	49
57	Recent recovery of surface wind speed in northwest China. <i>International Journal of Climatology</i> , 2018, 38, 4445-4458.	1.5	49
58	Evaluation of multiple gridded precipitation datasets for the arid region of northwestern China. <i>Atmospheric Research</i> , 2020, 236, 104818.	1.8	49
59	Impacts of temperature and precipitation on runoff in the Tarim River during the past 50 years. <i>Journal of Arid Land</i> , 2011, 3, 220-230.	0.9	49
60	The Spatiotemporal Response of Soil Moisture to Precipitation and Temperature Changes in an Arid Region, China. <i>Remote Sensing</i> , 2018, 10, 468.	1.8	47
61	Development and utilization of water resources and assessment of water security in Central Asia. <i>Agricultural Water Management</i> , 2020, 240, 106297.	2.4	46
62	Dynamic changes in terrestrial net primary production and their effects on evapotranspiration. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2169-2178.	1.9	43
63	Understanding the spatial differences in terrestrial water storage variations in the Tibetan Plateau from 2002 to 2016. <i>Climatic Change</i> , 2018, 151, 379-393.	1.7	43
64	Long-term change of seasonal snow cover and its effects on river runoff in the Tarim River basin, northwestern China. <i>Hydrological Processes</i> , 2009, 23, 2045-2055.	1.1	42
65	Vegetation dynamics and their response to hydroclimatic factors in the Tarim River Basin, China. <i>Ecohydrology</i> , 2013, 6, 927-936.	1.1	40
66	Climate change may accelerate the decline of desert riparian forest in the lower Tarim River, Northwestern China: Evidence from tree-rings of <i>Populus euphratica</i> . <i>Ecological Indicators</i> , 2020, 111, 105997.	2.6	40
67	Integrating Wavelet Analysis and BPANN to Simulate the Annual Runoff With Regional Climate Change: A Case Study of Yarkand River, Northwest China. <i>Water Resources Management</i> , 2014, 28, 2523-2537.	1.9	36
68	Use of $^{2}\text{H}$ and $^{18}\text{O}$ stable isotopes to investigate water sources for different ages of <i>Populus euphratica</i> along the lower Heihe River. <i>Ecological Research</i> , 2015, 30, 581-587.	0.7	36
69	Long-term trend and fractal of annual runoff process in mainstream of Tarim River. <i>Chinese Geographical Science</i> , 2008, 18, 77-84.	1.2	35
70	Hydroclimatic changes of Lake Bosten in Northwest China during the last decades. <i>Scientific Reports</i> , 2018, 8, 9118.	1.6	35
71	An integrated assessment of runoff dynamics in the Amu Darya River Basin: Confronting climate change and multiple human activities, 1960–2017. <i>Journal of Hydrology</i> , 2021, 603, 126905.	2.3	34
72	Spatial patterns of vegetation carbon sinks and sources under water constraint in Central Asia. <i>Journal of Hydrology</i> , 2020, 590, 125355.	2.3	33

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73	The complex nonlinear systems with fractal as well as chaotic dynamics of annual runoff processes in the three headwaters of the Tarim River. <i>Journal of Chinese Geography</i> , 2009, 19, 25-35.	1.5	32
74	Assessment of the Irrigation Water Requirement and Water Supply Risk in the Tarim River Basin, Northwest China. <i>Sustainability</i> , 2019, 11, 4941.	1.6	32
75	Does elevation dependent warming exist in high mountain Asia?. <i>Environmental Research Letters</i> , 2020, 15, 024012.	2.2	32
76	Assessment of wetland fragmentation in the Tarim River basin, western China. <i>Environmental Geology</i> , 2009, 57, 455-464.	1.2	31
77	An integrated statistical approach to identify the nonlinear trend of runoff in the Hotan River and its relation with climatic factors. <i>Stochastic Environmental Research and Risk Assessment</i> , 2011, 25, 223-233.	1.9	31
78	Response of runoff to change of atmospheric O <sub>3</sub> level height in summer in arid region of Northwest China. <i>Science China Earth Sciences</i> , 2012, 55, 1533-1544.	2.3	31
79	Variations of temperature and precipitation of snowmelt period and its effect on runoff in the mountainous areas of Northwest China. <i>Journal of Chinese Geography</i> , 2013, 23, 17-30.	1.5	31
80	A hybrid model to assess the impact of climate variability on streamflow for an ungauged mountainous basin. <i>Climate Dynamics</i> , 2018, 50, 2829-2844.	1.7	31
81	Potential risks and challenges of climate change in the arid region of northwestern China. <i>Regional Sustainability</i> , 2020, 1, 20-30.	1.1	29
82	Glacier and snow variations and their impacts on regional water resources in mountains. <i>Journal of Chinese Geography</i> , 2019, 29, 84-100.	1.5	28
83	Linear trend and abrupt changes of climate indices in the arid region of northwestern China. <i>Atmospheric Research</i> , 2017, 196, 108-118.	1.8	27
84	Isotopic Characterization of River Waters and Water Source Identification in an Inland River, Central Asia. <i>Water (Switzerland)</i> , 2016, 8, 286.	1.2	26
85	Changes in annual and seasonal temperature extremes in the arid region of China, 1960â€“2010. <i>Natural Hazards</i> , 2013, 65, 1913-1930.	1.6	25
86	Spatio-temporal variations of nonlinear trends of precipitation over an arid region of northwest China according to the extreme-point symmetric mode decomposition method. <i>International Journal of Climatology</i> , 2018, 38, 2239-2249.	1.5	25
87	Impact of Climate Change on the Hydrological Regime of the Yarkant River Basin, China: An Assessment Using Three SSP Scenarios of CMIP6 GCMs. <i>Remote Sensing</i> , 2022, 14, 115.	1.8	25
88	The nonlinear hydro-climatic process in the Yarkand River, northwestern China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 389-399.	1.9	24
89	Recent Changes in Water Discharge in Snow and Glacier Melt-Dominated Rivers in the Tianshan Mountains, Central Asia. <i>Remote Sensing</i> , 2020, 12, 2704.	1.8	24
90	Drought promoted the disappearance of civilizations along the ancient Silk Road. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	22

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91	Quantitatively evaluating the effects of climate factors on runoff change for Aksu River in northwestern China. <i>Theoretical and Applied Climatology</i> , 2016, 123, 97-105.	1.3	22
92	Recent vegetation browning and its drivers on Tianshan Mountain, Central Asia. <i>Ecological Indicators</i> , 2021, 129, 107912.	2.6	22
93	Combining BPANN and wavelet analysis to simulate hydro-climatic processes—a case study of the Kaidu River, North-west China. <i>Frontiers of Earth Science</i> , 2013, 7, 227-237.	0.9	21
94	Increasing precipitation and baseflow in Aksu River since the 1950s. <i>Quaternary International</i> , 2014, 336, 26-34.	0.7	21
95	Spatial and temporal variability of water vapor pressure in the arid region of northwest China, during 1961–2011. <i>Theoretical and Applied Climatology</i> , 2016, 123, 683-691.	1.3	21
96	Study on the utilization efficiency of land and water resources in the Aral Sea Basin, Central Asia. <i>Sustainable Cities and Society</i> , 2019, 51, 101693.	5.1	21
97	Quantifying the Effects of Climate and Vegetation on Soil Moisture in an Arid Area, China. <i>Water (Switzerland)</i> , 2019, 11, 767.	1.2	21
98	Developing a Long Short-Term Memory (LSTM)-Based Model for Reconstructing Terrestrial Water Storage Variations from 1982 to 2016 in the Tarim River Basin, Northwest China. <i>Remote Sensing</i> , 2021, 13, 889.	1.8	21
99	Hydrological extreme variability in the headwater of Tarim River: links with atmospheric teleconnection and regional climate. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014, 28, 443-453.	1.9	20
100	Evaluating the vegetation growing season changes in the arid region of northwestern China. <i>Theoretical and Applied Climatology</i> , 2014, 118, 569-579.	1.3	20
101	Multiscale evolution of surface air temperature in the arid region of Northwest China and its linkages to ocean oscillations. <i>Theoretical and Applied Climatology</i> , 2017, 128, 945-958.	1.3	20
102	Glacier changes from 1975 to 2016 in the Aksu River Basin, Central Tianshan Mountains. <i>Journal of Chinese Geography</i> , 2019, 29, 984-1000.	1.5	20
103	Loss of terrestrial water storage in the Tianshan mountains from 2003 to 2015. <i>International Journal of Remote Sensing</i> , 2019, 40, 8342-8358.	1.3	20
104	Projected Meteorological Drought over Asian Drylands under Different CMIP6 Scenarios. <i>Remote Sensing</i> , 2021, 13, 4409.	1.8	20
105	Assessment of efficiency and potentiality of agricultural resources in Central Asia. <i>Journal of Chinese Geography</i> , 2018, 28, 1329-1340.	1.5	19
106	Risk assessment of water resource shortages in the Aksu River basin of northwest China under climate change. <i>Journal of Environmental Management</i> , 2022, 305, 114394.	3.8	19
107	Impacts of climatic change on river runoff in northern Xinjiang of China over last fifty years. <i>Chinese Geographical Science</i> , 2010, 20, 193-201.	1.2	18
108	Downscaling Precipitation in the Data-Scarce Inland River Basin of Northwest China Based on Earth System Data Products. <i>Atmosphere</i> , 2019, 10, 613.	1.0	17

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109	Geospatial land surface-based thermal scenarios for wetland ecological risk assessment and its landscape dynamics simulation in Bayanbulak Wetland, Northwestern China. <i>Landscape Ecology</i> , 2021, 36, 1699-1723.	1.9	17
110	Climatic change of inland river basin in an arid area: a case study in northern Xinjiang, China. <i>Theoretical and Applied Climatology</i> , 2012, 107, 143-154.	1.3	15
111	Why does the runoff in Hotan River show a slight decreased trend in northwestern China?. <i>Atmospheric Science Letters</i> , 2018, 19, e800.	0.8	15
112	Has the Bosten Lake Basin been dry or wet during the climate transition in Northwest China in the past 30 years?. <i>Theoretical and Applied Climatology</i> , 2020, 141, 627-644.	1.3	15
113	Recent Oasis Dynamics and Ecological Security in the Tarim River Basin, Central Asia. <i>Sustainability</i> , 2022, 14, 3372.	1.6	15
114	Land Use Dynamic Changes in an Arid Inland River Basin Based on Multi-Scenario Simulation. <i>Remote Sensing</i> , 2022, 14, 2797.	1.8	15
115	Regional disparities in warm season rainfall changes over arid eastern-central Asia. <i>Scientific Reports</i> , 2018, 8, 13051.	1.6	14
116	Drought Risk Assessment in Central Asia Using a Probabilistic Copula Function Approach. <i>Water (Switzerland)</i> , 2020, 12, 421.	1.2	14
117	Modeling streamflow driven by climate change in data-scarce mountainous basins. <i>Science of the Total Environment</i> , 2021, 790, 148256.	3.9	14
118	Comprehensive evaluation of the water-energy-food nexus in the agricultural management of the Tarim River Basin, Northwest China. <i>Agricultural Water Management</i> , 2022, 271, 107811.	2.4	13
119	Runoff response to the glacier shrinkage in the Karatal river basin, Kazakhstan. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	12
120	An approach to simulate the climate-driven streamflow in the data-scarce mountain basins of Northwest China. <i>Journal of Earth System Science</i> , 2019, 128, 1.	0.6	12
121	Monitoring and Predicting Drought Based on Multiple Indicators in an Arid Area, China. <i>Remote Sensing</i> , 2020, 12, 2298.	1.8	12
122	Response of Precipitation in Tianshan to Global Climate Change Based on the Berkeley Earth and ERA5 Reanalysis Products. <i>Remote Sensing</i> , 2022, 14, 519.	1.8	12
123	Responses of streamflow to climate change in the northern slope of Tianshan Mountains in Xinjiang: A case study of the Toutun River basin. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 42-48.	0.9	11
124	Spatiotemporal variation of upper-air and surface wind speed and its influencing factors in northwestern China during 1980-2012. <i>Theoretical and Applied Climatology</i> , 2018, 133, 1303-1314.	1.3	11
125	Quantitative assessment of the ecological effects of land use/cover change in the arid region of Northwest China. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 704.	1.3	11
126	Quantitatively evaluating the effects of CO2 emission on temperature rise. <i>Quaternary International</i> , 2014, 336, 171-175.	0.7	10



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127	Identification of the Space-Time Variability of Hydrological Drought in the Arid Region of Northwestern China. <i>Water (Switzerland)</i> , 2019, 11, 1051.	1.2	9
128	Nonlinear response of runoff to atmospheric freezing level height variation based on hybrid prediction models. <i>Hydrological Sciences Journal</i> , 2019, 64, 1556-1572.	1.2	8
129	Increased Compound Droughts and Heatwaves in a Double Pack in Central Asia. <i>Remote Sensing</i> , 2022, 14, 2959.	1.8	8
130	Recent Changes in Glaciers in the Northern Tien Shan, Central Asia. <i>Remote Sensing</i> , 2022, 14, 2878.	1.8	8
131	Climate change and runoff response based on isotope analysis in an arid mountain watershed of the western Kunlun Mountains. <i>Hydrological Sciences Journal</i> , 2017, 62, 319-330.	1.2	7
132	Impacts of land cover change and water management practices on the Tarim and Konqi river systems, Xinjiang, China. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 046020.	0.6	5
133	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
134	Detecting changes in extreme streamflow in the Tarim River, Northwest China. <i>Quaternary International</i> , 2015, 380-381, 149-158.	0.7	4
135	Impacts of regional climate and teleconnection on hydrological change in the Bosten Lake Basin, arid region of northwestern China. <i>Journal of Water and Climate Change</i> , 2018, 9, 74-88.	1.2	4
136	Quantifying the impact of mountain precipitation on runoff in Hotan River, northwestern China. <i>Frontiers of Earth Science</i> , 2020, 14, 568-577.	0.9	4
137	Water and Ecological Security at the Heart of China's Silk Road Economic Belt. , 2019, , 281-306.		1
138	Changes in extreme hydrological events. , 2014, , 359-404.		1
139	The Nonlinear Hydro-climatic Process: A Case Study of the Tarim Headwaters, NW China. , 2014, , 289-310.		0