

Yaning Chen

List of Publications by Year in descending order

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126
papers

5,879
citations

70961

41
h-index

91712

69
g-index

142
all docs

142
docs citations

142
times ranked

4105
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing bias correction methods in downscaling meteorological variables for a hydrologic impact study in an arid area in China. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2547-2559.	1.9	347
2	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
3	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
4	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
5	Changes in Central Asia's Water Tower: Past, Present and Future. <i>Scientific Reports</i> , 2016, 6, 35458.	1.6	195
6	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
7	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
8	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
9	Why does the temperature rise faster in the arid region of northwest China?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	132
10	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
11	Multivariate assessment and attribution of droughts in Central Asia. <i>Scientific Reports</i> , 2017, 7, 1316.	1.6	122
12	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
13	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
14	Recent climate and hydrological changes in a mountain basin system in Xinjiang, China. <i>Earth-Science Reviews</i> , 2022, 226, 103957.	4.0	107
15	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
16	New interpretation of the role of water balance in an extended Budyko hypothesis in arid regions. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 393-409.	1.9	89
17	Effects of ecological water conveyance on groundwater dynamics and riparian vegetation in the lower reaches of Tarim River, China. <i>Hydrological Processes</i> , 2010, 24, 170-177.	1.1	82
18	Evaluation and Future Projection of Chinese Precipitation Extremes Using Large Ensemble High-Resolution Climate Simulations. <i>Journal of Climate</i> , 2019, 32, 2169-2183.	1.2	78

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19	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
20	Sustainable water management for cross-border resources: The Balkhash Lake Basin of Central Asia, 1931â€“2015. <i>Journal of Cleaner Production</i> , 2020, 263, 121614.	4.6	76
21	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
22	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
23	Dealing with equality and benefit for water allocation in a lake watershed: A Gini-coefficient based stochastic optimization approach. <i>Journal of Hydrology</i> , 2018, 561, 322-334.	2.3	69
24	Comprehensive evaluation and sustainable development of waterâ€“energyâ€“foodâ€“ecology systems in Central Asia. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112061.	8.2	67
25	Global perspective on hydrology, water balance, and water resources management in arid basins. <i>Hydrological Processes</i> , 2010, 24, 129-135.	1.1	66
26	Analysis on the ecological benefits of the stream water conveyance to the dried-up river of the lower reaches of Tarim River, China. <i>Science in China Series D: Earth Sciences</i> , 2004, 47, 1053-1064.	0.9	64
27	Review article: Hydrological modeling in glacierized catchments of central Asia â€“ status and challenges. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 669-684.	1.9	62
28	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
29	Quantifying the contributions of snow/glacier meltwater to river runoff in the Tianshan Mountains, Central Asia. <i>Global and Planetary Change</i> , 2019, 174, 47-57.	1.6	60
30	Response of glacial-lake outburst floods to climate change in the Yarkant River basin on northern slope of Karakoram Mountains, China. <i>Quaternary International</i> , 2010, 226, 75-81.	0.7	58
31	Water and ecological security: dealing with hydroclimatic challenges at the heart of Chinaâ€™s Silk Road. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	57
32	Agricultural water demands in Central Asia under 1.5â€“2.0âˆ°C global warming. <i>Agricultural Water Management</i> , 2020, 231, 106020.	2.4	55
33	Runoff responses to climate change in arid region of northwestern China during 1960â€“2010. <i>Chinese Geographical Science</i> , 2013, 23, 286-300.	1.2	54
34	Photosynthesis of <i>Populus euphratica</i> in relation to groundwater depths and high temperature in arid environment, northwest China. <i>Photosynthetica</i> , 2010, 48, 257-268.	0.9	53
35	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
36	Improving MODIS snow products with a HMRF-based spatio-temporal modeling technique in the Upper Rio Grande Basin. <i>Remote Sensing of Environment</i> , 2018, 204, 568-582.	4.6	49

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37	Hydrological and water cycle processes of inland river basins in the arid region of Northwest China. <i>Journal of Arid Land</i> , 2019, 11, 161-179.	0.9	49
38	Ecohydrological effects of stream-aquifer water interaction: a case study of the Heihe River basin, northwestern China. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2333-2352.	1.9	46
39	Dry/wet pattern changes in global dryland areas over the past six decades. <i>Global and Planetary Change</i> , 2019, 178, 184-192.	1.6	46
40	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
41	Comparison of three drought indices and their evolutionary characteristics in the arid region of northwestern China. <i>Atmospheric Science Letters</i> , 2017, 18, 132-139.	0.8	44
42	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
43	Changes in temporal inequality of precipitation extremes over China due to anthropogenic forcings. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	43
44	Characterization of photosynthesis of <i>Populus euphratica</i> grown in the arid region. <i>Photosynthetica</i> , 2006, 44, 622-626.	0.9	41
45	Vegetation dynamics and their response to hydroclimatic factors in the Tarim River Basin, China. <i>Ecohydrology</i> , 2013, 6, 927-936.	1.1	40
46	Rational groundwater table indicated by the eco-physiological parameters of the vegetation: A case study of ecological restoration in the lower reaches of the Tarim River. <i>Science Bulletin</i> , 2006, 51, 8-15.	1.7	37
47	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
48	How Hydrologic Processes Differ Spatially in a Large Basin: Multisite and Multiobjective Modeling in the Tarim River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7098-7113.	1.2	36
49	Recent Lake Area Changes in Central Asia. <i>Scientific Reports</i> , 2019, 9, 16277.	1.6	35
50	Stable isotopes of atmospheric precipitation and its environmental drivers in the Eastern Chinese Loess Plateau, China. <i>Journal of Hydrology</i> , 2020, 581, 124404.	2.3	35
51	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
52	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
53	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
54	Does elevation dependent warming exist in high mountain Asia?. <i>Environmental Research Letters</i> , 2020, 15, 024012.	2.2	32

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55	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
56	Characteristics of drought in the arid region of northwestern China. <i>Climate Research</i> , 2015, 62, 99-113.	0.4	31
57	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
58	Mass balance observations and reconstruction for Batysh Sook Glacier, Tien Shan, from 2004 to 2016. <i>Cold Regions Science and Technology</i> , 2017, 135, 76-89.	1.6	30
59	Xylem hydraulic conductivity and embolism in riparian plants and their responses to drought stress in desert of Northwest China. <i>Ecohydrology</i> , 2013, 6, 984-993.	1.1	29
60	A hybrid model to simulate the annual runoff of the Kaidu River in northwest China. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1447-1457.	1.9	29
61	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
62	Historic and Simulated Desert-Oasis Ecotone Changes in the Arid Tarim River Basin, China. <i>Remote Sensing</i> , 2021, 13, 647.	1.8	29
63	Variation in agricultural water demand and its attributions in the arid Tarim River Basin. <i>Journal of Agricultural Science</i> , 2018, 156, 301-311.	0.6	28
64	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
65	Impact of GCM structure uncertainty on hydrological processes in an arid area of China. <i>Hydrology Research</i> , 2018, 49, 893-907.	1.1	27
66	Ecological Impacts of Land Use Change in the Arid Tarim River Basin of China. <i>Remote Sensing</i> , 2022, 14, 1894.	1.8	27
67	Water use strategies of the desert riparian forest plant community in the lower reaches of Heihe River Basin, China. <i>Science China Earth Sciences</i> , 2014, 57, 1293-1305.	2.3	26
68	Climate and topographic controls on snow phenology dynamics in the Tianshan Mountains, Central Asia. <i>Atmospheric Research</i> , 2020, 236, 104813.	1.8	26
69	Estimation of net primary productivity and its driving factors in the Ili River Valley, China. <i>Journal of Arid Land</i> , 2018, 10, 781-793.	0.9	25
70	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
71	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
72	Increasing terrestrial ecosystem carbon release in response to autumn cooling and warming. <i>Nature Climate Change</i> , 2022, 12, 380-385.	8.1	24

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73	Multiobjective sensitivity analysis and optimization of distributed hydrologic model MOBIDIC. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4101-4112.	1.9	22
74	Drought promoted the disappearance of civilizations along the ancient Silk Road. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	22
75	Recent fall Eurasian cooling linked to North Pacific sea surface temperatures and a strengthening Siberian high. <i>Nature Communications</i> , 2020, 11, 5202.	5.8	22
76	Declining snowfall fraction in the alpine regions, Central Asia. <i>Scientific Reports</i> , 2020, 10, 3476.	1.6	22
77	Recent vegetation browning and its drivers on Tianshan Mountain, Central Asia. <i>Ecological Indicators</i> , 2021, 129, 107912.	2.6	22
78	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
79	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
80	Multi-Objective Sensitivity Analysis of a Fully Distributed Hydrologic Model WetSpa. <i>Water Resources Management</i> , 2012, 26, 109-128.	1.9	19
81	Characteristics in streamflow and extremes in the Tarim River, China: trends, distribution and climate linkage. <i>International Journal of Climatology</i> , 2015, 35, 761-776.	1.5	19
82	Assessment of efficiency and potentiality of agricultural resources in Central Asia. <i>Journal of Chinese Geography</i> , 2018, 28, 1329-1340.	1.5	19
83	Observed changes in extreme precipitation over the Tianshan Mountains and associated large-scale climate teleconnections. <i>Journal of Hydrology</i> , 2022, 606, 127457.	2.3	19
84	Analysis on water potential of <i>Populus euphratica</i> Oliv and its meaning in the lower reaches of Tarim River, Xinjiang. <i>Science Bulletin</i> , 2006, 51, 221-228.	1.7	18
85	Effect of sub-cloud evaporation on precipitation in the Tianshan Mountains (Central Asia) under the influence of global warming. <i>Hydrological Processes</i> , 2020, 34, 5557-5566.	1.1	18
86	Adaptability of machine learning methods and hydrological models to discharge simulations in data-sparse glaciated watersheds. <i>Journal of Arid Land</i> , 2021, 13, 549-567.	0.9	18
87	Water resources management and dynamic changes in water politics in the transboundary river basins of Central Asia. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3281-3299.	1.9	18
88	Climate Change Impact on the Hydrology of a Typical Watershed in the Tianshan Mountains. <i>Advances in Meteorology</i> , 2015, 2015, 1-10.	0.6	17
89	Contribution of meteorological input in calibrating a distributed hydrologic model in a watershed in the Tianshan Mountains, China. <i>Environmental Earth Sciences</i> , 2015, 74, 2413-2424.	1.3	17
90	Climate change in the Tianshan and northern Kunlun Mountains based on GCM simulation ensemble with Bayesian model averaging. <i>Journal of Arid Land</i> , 2017, 9, 622-634.	0.9	17

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91	Response of the accumulation of proline in the bodies of <i>Populus euphratica</i> to the change of groundwater level at the lower reaches of Tarim River. <i>Science Bulletin</i> , 2003, 48, 1995.	1.7	17
92	Improving streamflow and flood simulations in three headwater catchments of the Tarim River based on a coupled glacier-hydrological model. <i>Journal of Hydrology</i> , 2021, 603, 127048.	2.3	17
93	Hydrological Drought Risk Assessment Using a Multidimensional Copula Function Approach in Arid Inland Basins, China. <i>Water (Switzerland)</i> , 2020, 12, 1888.	1.2	16
94	Continuous warming shift greening towards browning in the Southeast and Northwest High Mountain Asia. <i>Scientific Reports</i> , 2021, 11, 17920.	1.6	16
95	Influences of forest on MODIS snow cover mapping and snow variations in the Amur River basin in Northeast Asia during 2000–2014. <i>Hydrological Processes</i> , 2017, 31, 3225-3241.	1.1	15
96	Recent Oasis Dynamics and Ecological Security in the Tarim River Basin, Central Asia. <i>Sustainability</i> , 2022, 14, 3372.	1.6	15
97	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
98	Developing Daily Cloud-Free Snow Composite Products From MODIS and IMS for the Tianshan Mountains. <i>Earth and Space Science</i> , 2019, 6, 266-275.	1.1	14
99	Drought Risk Assessment in Central Asia Using a Probabilistic Copula Function Approach. <i>Water (Switzerland)</i> , 2020, 12, 421.	1.2	14
100	Modeling streamflow driven by climate change in data-scarce mountainous basins. <i>Science of the Total Environment</i> , 2021, 790, 148256.	3.9	14
101	Evidence of elevation-dependent warming from the Chinese Tian Shan. <i>Cryosphere</i> , 2021, 15, 5765-5783.	1.5	14
102	Research Advances in Plant Physiology and Ecology of Desert Riparian Forests under Drought Stress. <i>Forests</i> , 2022, 13, 619.	0.9	14
103	Spatial distribution of the extreme hydrological events in Xinjiang, north-west of China. <i>Natural Hazards</i> , 2013, 67, 483-495.	1.6	13
104	Simulating the precipitation in the data-scarce Tianshan Mountains, Northwest China based on the Earth system data products. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	13
105	Reconstructing high-resolution temperature for the past 40 years in the Tianshan Mountains, China based on the Earth system data products. <i>Atmospheric Research</i> , 2021, 253, 105493.	1.8	13
106	Prediction of water table depths under soil water-groundwater interaction and stream water conveyance. <i>Science China Earth Sciences</i> , 2011, 54, 420-430.	2.3	12
107	The threshold of soil moisture and salinity influencing the growth of <i>Populus euphratica</i> and <i>Tamarix ramosissima</i> in the extremely arid region. <i>Environmental Earth Sciences</i> , 2012, 66, 2519-2529.	1.3	12
108	Runoff response to the glacier shrinkage in the Karatal river basin, Kazakhstan. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	12

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109	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
110	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
111	Analysis on the streamflow components of the typical inland river, Northwest China. <i>Hydrological Sciences Journal</i> , 2016, , 1-12.	1.2	11
112	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
113	Multi-Objective Calibration of a Distributed Hydrological Model in a Highly Glacierized Watershed in Central Asia. <i>Water (Switzerland)</i> , 2019, 11, 554.	1.2	10
114	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
115	Water use efficiency data from 2000 to 2019 in measuring progress towards SDGs in Central Asia. <i>Big Earth Data</i> , 2022, 6, 90-102.	2.0	8
116	Recent Changes in Glaciers in the Northern Tien Shan, Central Asia. <i>Remote Sensing</i> , 2022, 14, 2878.	1.8	8
117	Characteristics of Water Physiological Integration and its Ecological Significance for <i>Populus euphratica</i> Young Ramets in an Extremely Drought Environment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5657-5666.	1.2	7
118	Water Deficit May Cause Vegetation Browning in Central Asia. <i>Remote Sensing</i> , 2022, 14, 2574.	1.8	7
119	The arbuscular mycorrhizal symbiotic status of <i>Populus euphratica</i> , a drought resistant tree species from arid lands. <i>Ecohydrology</i> , 2013, 6, 1001-1008.	1.1	6
120	Hydrochemical characteristics and evolution of groundwater in the dried-up river oasis of the Tarim Basin, Central Asia. <i>Journal of Arid Land</i> , 2021, 13, 977-994.	0.9	6
121	Higher Sensitivity of Planted Forests' Productivity Than Natural Forests to Droughts in China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006306.	1.3	5
122	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
123	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
124	Identifying water vapor sources of precipitation in forest and grassland in the north slope of the Tianshan Mountains, Central Asia. <i>Journal of Arid Land</i> , 2022, 14, 297-309.	0.9	4
125	Simulating the climate driven runoff in data-scarce mountains by machine learning and downscaling reanalysis data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 3819-3834.	1.9	2
126	Water and Ecological Security at the Heart of China's Silk Road Economic Belt. , 2019, , 281-306.		1