

Tao Yang

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102
papers

3,759
citations

38
h-index

59
g-index

110
ext. papers

4,586
ext. citations

5
avg, IF

5.77
L-index

#	Paper	IF	Citations
102	Quantitative assessment of the impact of climate variability and human activities on runoff changes: a case study in four catchments of the Haihe River basin, China. <i>Hydrological Processes</i> , 2013 , 27, 1158-1174	3.3	220
101	Regional frequency analysis and spatio-temporal pattern characterization of rainfall extremes in the Pearl River Basin, China. <i>Journal of Hydrology</i> , 2010 , 380, 386-405	6	198
100	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	3.3	190
99	Capacitive deionization using nitrogen-doped mesostructured carbons for highly efficient brackish water desalination. <i>Chemical Engineering Journal</i> , 2019 , 362, 887-896	14.7	176
98	Nanoarchitected metal-organic framework/polypyrrole hybrids for brackish water desalination using capacitive deionization. <i>Materials Horizons</i> , 2019 , 6, 1433-1437	14.4	154
97	Ultrahigh capacitive deionization performance by 3D interconnected MOF-derived nitrogen-doped carbon tubes. <i>Chemical Engineering Journal</i> , 2020 , 390, 124493	14.7	127
96	Extraordinary capacitive deionization performance of highly-ordered mesoporous carbon nano-polyhedra for brackish water desalination. <i>Environmental Science: Nano</i> , 2019 , 6, 981-989	7.1	119
95	Unprecedented capacitive deionization performance of interconnected iron-nitrogen-doped carbon tubes in oxygenated saline water. <i>Materials Horizons</i> , 2020 , 7, 1404-1412	14.4	114
94	Variability of Water Resource in the Yellow River Basin of Past 50 Years, China. <i>Water Resources Management</i> , 2009 , 23, 1157-1170	3.7	105
93	Reference evapotranspiration change and the causes across the Yellow River Basin during 1957-2008 and their spatial and seasonal differences. <i>Water Resources Research</i> , 2012 , 48,	5.4	88
92	Changes in daily temperature and precipitation extremes in the Yellow River Basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 401-421	3.5	82
91	A Stratification-Based Data Collection Scheme in Underwater Acoustic Sensor Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10671-10682	6.8	74
90	Changes in reference evapotranspiration across the Tibetan Plateau: Observations and future projections based on statistical downscaling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4049-4068	4.4	72
89	Increasingly Important Role of Atmospheric Aridity on Tibetan Alpine Grasslands. <i>Geophysical Research Letters</i> , 2018 , 45, 2852-2859	4.9	65
88	Analysis of multi-dimensional hydrological alterations under climate change for four major river basins in different climate zones. <i>Climatic Change</i> , 2017 , 141, 483-498	4.5	64
87	Spatial and Temporal Characteristics of Reference Evapotranspiration Trends in the Haihe River Basin, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 239-252	1.8	63
86	Climate change and water storage variability over an arid endorheic region. <i>Journal of Hydrology</i> , 2015 , 529, 330-339	6	62

85	Multi-model ensemble projections in temperature and precipitation extremes of the Tibetan Plateau in the 21st century. <i>Global and Planetary Change</i> , 2012 , 80-81, 1-13	4.2	62
84	Characterizing the changing behaviours of precipitation concentration in the Yangtze River Basin, China. <i>Hydrological Processes</i> , 2013 , 27, 3375-3393	3.3	61
83	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	3.5	61
82	Regional flood frequency and spatial patterns analysis in the Pearl River Delta region using L-moments approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 165-182	3.5	61
81	Statistical downscaling of extreme daily precipitation, evaporation, and temperature and construction of future scenarios. <i>Hydrological Processes</i> , 2012 , 26, 3510-3523	3.3	60
80	Evaluation of an ensemble of regional hydrological models in 12 large-scale river basins worldwide. <i>Climatic Change</i> , 2017 , 141, 381-397	4.5	59
79	Uncertainty Intercomparison of Different Hydrological Models in Simulating Extreme Flows. <i>Water Resources Management</i> , 2013 , 27, 1393-1409	3.7	55
78	Greenhouse gas measurement from Chinese freshwater bodies: A review. <i>Journal of Cleaner Production</i> , 2019 , 233, 368-378	10.3	51
77	Temporal and spatial patterns of low-flow changes in the Yellow River in the last half century. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 297-309	3.5	51
76	Dynamics of soil carbon and nitrogen stocks after afforestation in arid and semi-arid regions: A meta-analysis. <i>Science of the Total Environment</i> , 2018 , 618, 1658-1664	10.2	50
75	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlight-Energy-Water Nexus. <i>ACS Nano</i> , 2021 ,	16.7	48
74	Development of a new IHA method for impact assessment of climate change on flow regime. <i>Global and Planetary Change</i> , 2017 , 156, 68-79	4.2	47
73	Long-term prediction of greenhouse gas risk to the Chinese hydropower reservoirs. <i>Science of the Total Environment</i> , 2019 , 646, 300-308	10.2	46
72	Three-Dimensional Nanoarchitecture of Carbon Nanotube-Interwoven Metal-Organic Frameworks for Capacitive Deionization of Saline Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13949-13954	8.3	46
71	Changes of climate extremes in a typical arid zone: Observations and multimodel ensemble projections. <i>Journal of Geophysical Research</i> , 2011 , 116,		45
70	Spatial assessment of hydrologic alteration across the Pearl River Delta, China, and possible underlying causes. <i>Hydrological Processes</i> , 2009 , 23, 1565-1574	3.3	45
69	Human activities aggravate nitrogen-deposition pollution to inland water over China. <i>National Science Review</i> , 2020 , 7, 430-440	10.8	45
68	Characterization of spatio-temporal patterns for various GRACE- and GLDAS-born estimates for changes of global terrestrial water storage. <i>Global and Planetary Change</i> , 2013 , 109, 30-37	4.2	41

67	Statistical downscaling of extremes of precipitation and temperature and construction of their future scenarios in an elevated and cold zone. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012 , 26, 405-418	3.5	39
66	Spatio-temporal changes of hydrological processes and underlying driving forces in Guizhou region, Southwest China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 1071-1087	3.5	39
65	Assessment of the impact of climate change on flow regime at multiple temporal scales and potential ecological implications in an alpine river. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 1849-1866	3.5	39
64	An improved approach for water quality evaluation: TOPSIS-based informative weighting and ranking (TIWR) approach. <i>Ecological Indicators</i> , 2018 , 89, 356-364	5.8	38
63	Estimation of carbon stock for greenhouse gas emissions from hydropower reservoirs. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3183-3193	3.5	38
62	Review of analytical models to stream depletion induced by pumping: Guide to model selection. <i>Journal of Hydrology</i> , 2018 , 561, 277-285	6	31
61	Periodic fluctuation of reference evapotranspiration during the past five decades: Does Evaporation Paradox really exist in China?. <i>Scientific Reports</i> , 2016 , 6, 39503	4.9	29
60	Assessing CMIP5 general circulation model simulations of precipitation and temperature over China. <i>International Journal of Climatology</i> , 2015 , 35, 2431-2440	3.5	28
59	Impacts of climate change on flow regime and sequential threats to riverine ecosystem in the source region of the Yellow River. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	27
58	Urbanization Effect on Winter Haze in the Yangtze River Delta Region of China. <i>Geophysical Research Letters</i> , 2018 , 45, 6710-6718	4.9	26
57	Thermal conversion of polypyrrole nanotubes to nitrogen-doped carbon nanotubes for efficient water desalination using membrane capacitive deionization. <i>Separation and Purification Technology</i> , 2020 , 235, 116196	8.3	25
56	How do the multiple large-scale climate oscillations trigger extreme precipitation?. <i>Global and Planetary Change</i> , 2017 , 157, 48-58	4.2	24
55	Climate change and probabilistic scenario of streamflow extremes in an alpine region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8535-8551	4.4	23
54	Multimodel assessment of sensitivity and uncertainty of evapotranspiration and a proxy for available water resources under climate change. <i>Climatic Change</i> , 2017 , 141, 451-465	4.5	22
53	Spatio-temporal changes of precipitation and temperature over the Pearl River basin based on CMIP5 multi-model ensemble. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 1077-1089	3.5	22
52	Combined Use of Multiple Drought Indices for Global Assessment of Dry Gets Drier and Wet Gets Wetter Paradigm. <i>Journal of Climate</i> , 2019 , 32, 737-748	4.4	21
51	Change-point alterations of extreme water levels and underlying causes in the Pearl River Delta, China. <i>River Research and Applications</i> , 2009 , 25, 1153-1168	2.3	20
50	Understanding the discharge regime of a glacierized alpine catchment in the Tianshan Mountains using an improved HBV-D hydrological model. <i>Global and Planetary Change</i> , 2019 , 172, 211-222	4.2	20

49	A probabilistic method for streamflow projection and associated uncertainty analysis in a data sparse alpine region. <i>Global and Planetary Change</i> , 2018 , 165, 100-113	4.2	18
48	Large-scale climate patterns and precipitation in an arid endorheic region: linkage and underlying mechanism. <i>Environmental Research Letters</i> , 2016 , 11, 044006	6.2	17
47	Review of Advances in Hydrologic Science in China in the Last Decades: Impact Study of Climate Change and Human Activities. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 1380-1384	1.8	17
46	Spatial and Temporal Scale Effect in Simulating Hydrologic Processes in a Watershed. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 99-107	1.8	16
45	Development of a comprehensive framework for assessing the impacts of climate change and dam construction on flow regimes. <i>Journal of Hydrology</i> , 2020 , 590, 125358	6	16
44	High-resolution ensemble projections and uncertainty assessment of regional climate change over China in CORDEX East Asia. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 3087-3103	5.5	16
43	Changes in Snow Phenology from 1979 to 2016 over the Tianshan Mountains, Central Asia. <i>Remote Sensing</i> , 2019 , 11, 499	5	15
42	Temporal and spatial variations of soil moisture [Precipitation feedback in East China during the East Asian summer monsoon period: A sensitivity study. <i>Atmospheric Research</i> , 2018 , 213, 163-172	5.4	15
41	DEM-based numerical modelling of runoff and soil erosion processes in the hilly gully loess regions. <i>Stochastic Environmental Research and Risk Assessment</i> , 2012 , 26, 581-597	3.5	15
40	Drought projection based on a hybrid drought index using Artificial Neural Networks. <i>Hydrological Processes</i> , 2015 , 29, 2635-2648	3.3	14
39	Improving monthly streamflow prediction in alpine regions: integrating HBV model with Bayesian neural network. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3381-3396	3.5	13
38	Assessing the impact of human activities on hydrological and sediment changes (1953-2000) in nine major catchments of the Loess Plateau, China. <i>River Research and Applications</i> , 2010 , 26, 322-340	2.3	13
37	Scaling properties of the runoff variations in the arid and semi-arid regions of China: a case study of the Yellow River basin. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 1103-1111	3.5	12
36	Assessing the impact of climate change on flood in an alpine catchment using multiple hydrological models. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 2143-2158	3.5	10
35	Multimodel ensemble projections of future climate extreme changes in the Haihe River Basin, China. <i>Theoretical and Applied Climatology</i> , 2014 , 118, 405-417	3	10
34	Spatiotemporal variability of snowfall and its concentration in northern Xinjiang, Northwest China. <i>Theoretical and Applied Climatology</i> , 2020 , 139, 1247-1259	3	10
33	Prospective scenarios of the saltwater intrusion in an estuary under climate change context using Bayesian neural networks. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 981-991	3.5	9
32	Investigating soil moisture sensitivity to precipitation and evapotranspiration errors using SiB2 model and ensemble Kalman filter. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 681-693	3.5	9

31	Changes of Meiyu system in the future under A1B scenario simulated by MIROC_Hires model. <i>Theoretical and Applied Climatology</i> , 2016 , 123, 461-471	3	8
30	Time scales of external loading and spatial heterogeneity in nutrients-chlorophyll a response: Implication on eutrophication control in a large shallow lake. <i>Ecological Engineering</i> , 2020 , 142, 105636	3.9	8
29	Quantifying the response of surface urban heat island to urban greening in global north megacities. <i>Science of the Total Environment</i> , 2021 , 801, 149553	10.2	8
28	Urban water consumption in a rapidly developing flagship megacity of South China: prospective scenarios and implications. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1359-1370	3.5	7
27	Analysis of radially convergent tracer test in a two-zone confined aquifer with vertical dispersion effect: Asymmetrical and symmetrical transports. <i>Journal of Hazardous Materials</i> , 2019 , 377, 8-16	12.8	6
26	Probabilistic modeling and uncertainty estimation of urban water consumption under an incompletely informational circumstance. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 725-736	3.5	5
25	Parallel cooperation search algorithm and artificial intelligence method for streamflow time series forecasting. <i>Journal of Hydrology</i> , 2022 , 606, 127434	6	5
24	A new uncertainty estimation approach with multiple datasets and implementation for various precipitation products. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 2061-2081	5.5	4
23	The response of runoff components and glacier mass balance to climate change for a glaciated high-mountainous catchment in the Tianshan Mountains. <i>Natural Hazards</i> , 2020 , 104, 1239-1258	3	4
22	Nitrogenization of Biomass-Derived Porous Carbon Microtubes Promotes Capacitive Deionization Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 1645-1650	5.1	4
21	Infiltration Capacity and Structural Analysis of Permeable Pavements for Sustainable Urban: A Full-scale Case Study. <i>Journal of Cleaner Production</i> , 2021 , 288, 125111	10.3	4
20	Evaluating the area and position accuracy of surface water paths obtained by flow direction algorithms. <i>Journal of Hydrology</i> , 2020 , 583, 124619	6	3
19	A general analytical model for head response to oscillatory pumping in unconfined aquifers: effects of delayed gravity drainage and initial condition. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 1323-1337	5.5	3
18	Evaluation of spatiotemporal variability of temperature and precipitation over the Karakoram Highway region during the cold season by a Regional Climate Model. <i>Journal of Mountain Science</i> , 2020 , 17, 2108-2122	2.1	3
17	Rainfall Runoff Processes and Modelling in Regions Characterized by Deficiency in Soil Water Storage. <i>Water (Switzerland)</i> , 2019 , 11, 1858	3	2
16	A New Uncertainty Measure for Assessing the Uncertainty Existing in Hydrological Simulation. <i>Water (Switzerland)</i> , 2019 , 11, 812	3	2
15	New Analytical Models for Flow Induced by Pumping in a Stream-Aquifer System: A New Robin Boundary Condition Reflecting Joint Effect of Streambed Width and Storage. <i>Water Resources Research</i> , 2020 , 56, e2019WR026352	5.4	2
14	Understanding the water cycle over the upper Tarim basin: retrospect the estimated discharge bias to atmospheric variables and model structure		2

13	Growth limitation status and its role in interpreting chlorophyll a response in large and shallow lakes: A case study in Lake Okeechobee. <i>Journal of Environmental Management</i> , 2022 , 302, 114071	7.9	2
12	A Statistical Vertically Mixed Runoff Model for Regions Featured by Complex Runoff Generation Process. <i>Water (Switzerland)</i> , 2020 , 12, 2324	3	2
11	Variation of Snow Mass in a Regional Climate Model Downscaling Simulation Covering the Tianshan Mountains, Central Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034183	4.4	2
10	A modeling study of the influence of initial soil moisture on summer precipitation during the East Asian summer monsoon. <i>Dynamics of Atmospheres and Oceans</i> , 2019 , 85, 72-82	1.9	2
9	Understanding the water cycle over the upper Tarim Basin: retrospectively estimating the discharge bias to atmospheric variables and model structure. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 6087-6108	5.5	2
8	Decreases in days with sudden day-to-day temperature change in the warming world. <i>Global and Planetary Change</i> , 2020 , 192, 103239	4.2	1
7	New Methods for the Assessment of Flow Regime Alteration under Climate Change and Human Disturbance. <i>Water (Switzerland)</i> , 2019 , 11, 2435	3	1
6	A revised range of variability approach considering the morphological alteration of hydrological indicators. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021 , 35, 1783-1803	3.5	1
5	Assessing the Precision of Total Contributing Area (TCA) Estimated by Flow Direction Algorithms Based on the Analytical Solution of Theoretical TCA on Synthetic Surfaces. <i>Water Resources Research</i> , 2021 , 57, e2020WR028546	5.4	0
4	Reference evapotranspiration concentration and its relationship with precipitation concentration at southern and northern slopes of Tianshan Mountains, China. <i>Journal of Mountain Science</i> , 2019 , 16, 1381-1395	2.1	
3	Defining the range of ecological shelter zones in the shore zone of Three Gorges Reservoir, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 1973-1984	3.5	
2	Understanding the impacts induced by cut-off thresholds and likelihood measures on confidence interval when applying GLUE approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 1973-1984	3.5	
1	Study on Water Absorption/Dehydration Characteristics for SAP Composite Soil for Rainwater Harvesting. <i>Water (Switzerland)</i> , 2020 , 12, 2380	3	