Hanbo Yang

List of Publications by Year
in descending order

57 papers	3,980 citations	186265 28 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	3344 citing authors

#	Article	IF	Citations
1	New analytical derivation of the mean annual waterâ€energy balance equation. Water Resources Research, 2008, 44, .	4.2	475
2	Spatio-temporal variation of drought in China during 1961â€“2012: A climatic perspective. Journal of Hydrology, 2015, 526, 253-264.	5.4	414
3	Attribution analysis based on the Budyko hypothesis for detecting the dominant cause of runoff decline in Haihe basin. Journal of Hydrology, 2014, 510, 530-540.	5.4	284
4	Impact of vegetation coverage on regional water balance in the nonhumid regions of China. Water Resources Research, 2009, 45, .	4.2	254
5	Derivation of climate elasticity of runoff to assess the effects of climate change on annual runoff. Water Resources Research, 2011, 47, .	4.2	199
6	Quantifying the effect of vegetation change on the regional water balance within the Budyko framework. Geophysical Research Letters, 2016, 43, 1140-1148.	4.0	171
7	Hydrological trend analysis in the Yellow River basin using a distributed hydrological model. Water Resources Research, 2009, 45, .	4.2	151
8	Excessive Afforestation and Soil Drying on China's Loess Plateau. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 923-935.	3.0	147
9	The regional variation in climate elasticity and climate contribution to runoff across China. Journal of Hydrology, 2014, 517, 607-616.	5.4	143
10	Climatic factors influencing changing pan evaporation across China from 1961 to 2001. Journal of Hydrology, 2012, 414-415, 184-193.	5.4	136
11	Generation of MODIS-like land surface temperatures under all-weather conditions based on a data fusion approach. Remote Sensing of Environment, 2020, 246, 111863.	11.0	127
12	Changes in the eco-flow metrics of the Upper Yangtze River from 1961 to 2008. Journal of Hydrology, 2012, 448-449, 30-38.	5.4	125
13	Impact of the Three Gorges Dam on flow regime in the middle and lower Yangtze River. Quaternary International, 2013, 304, 43-50.	1.5	111
14	A distributed scheme developed for eco-hydrological modeling in the upper Heihe River. Science China Earth Sciences, 2015, 58, 36-45.	5.2	95
15	Quantifying the streamflow response to frozen ground degradation in the source region of the Yellow River within the Budyko framework. Journal of Hydrology, 2018, 558, 301-313.	5.4	89
16	Establishing a rainfall threshold for flash flood warnings in Chinaâ€™s mountainous areas based on a distributed hydrological model. Journal of Hydrology, 2016, 541, 371-386.	5.4	84
17	Assessing the impacts of climate variability and human activities on annual runoff in the Luan River basin, China. Hydrology Research, 2013, 44, 940-952.	2.7	78
18	An error analysis of the Budyko hypothesis for assessing the contribution of climate change to runoff. Water Resources Research, 2014, 50, 9620-9629.	4.2	77

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19	Multi-scale evaluation of six high-resolution satellite monthly rainfall estimates over a humid region in China with dense rain gauges. International Journal of Remote Sensing, 2014, 35, 1272-1294.	2.9	56
20	Simulation of water balance in a maize field under film-mulching drip irrigation. Agricultural Water Management, 2018, 210, 252-260.	5.6	48
21	Accuracy and spatio-temporal variation of high resolution satellite rainfall estimate over the Ganjiang River Basin. Science China Technological Sciences, 2013, 56, 853-865.	4.0	47
22	Frozen ground degradation may reduce future runoff in the headwaters of an inland river on the northeastern Tibetan Plateau. Journal of Hydrology, 2018, 564, 1153-1164.	5.4	47
23	Numerical Analysis on the Contribution of Urbanization to Wind Stilling: An Example over the Greater Beijing Metropolitan Area. Journal of Applied Meteorology and Climatology, 2013, 52, 1105-1115.	1.5	46
24	Classifying floods by quantifying driver contributions in the Eastern Monsoon Region of China. Journal of Hydrology, 2020, 585, 124767.	5.4	38
25	Historical and future changes of frozen ground in the upper Yellow River Basin. Global and Planetary Change, 2018, 162, 199-211.	3.5	37
26	Dominant climatic factors driving annual runoff changes at the catchment scale across China. Hydrology and Earth System Sciences, 2016, 20, 2573-2587.	4.9	34
27	Spatial variability of the trends in climatic variables across China during 1961â€“2010. Theoretical and Applied Climatology, 2015, 120, 773-783.	2.8	31
28	Simulated impacts of irrigation on evapotranspiration in a strongly exploited region: a case study of the Haihe River basin, China. Hydrological Processes, 2015, 29, 2704-2719.	2.6	30
29	Seasonal variability of the complementary relationship in the Asian monsoon region. Hydrological Processes, 2013, 27, 2736-2741.	2.6	29
30	Unifying catchment water balance models for different time scales through the maximum entropy production principle. Water Resources Research, 2016, 52, 7503-7512.	4.2	28
31	Spatial Interpolation of Daily Precipitation in a High Mountainous Watershed Based on Gauge Observations and a Regional Climate Model Simulation. Journal of Hydrometeorology, 2017, 18, 845-862.	1.9	28
32	Monitoring the variations of evapotranspiration due to land use/cover change in a semiarid shrubland. Hydrology and Earth System Sciences, 2017, 21, 863-877.	4.9	28
33	Spatiotemporal variations in frozen ground and their impacts on hydrological components in the source region of the Yangtze River. Journal of Hydrology, 2020, 590, 125237.	5.4	27
34	Improving the Regional Applicability of Satellite Precipitation Products by Ensemble Algorithm. Remote Sensing, 2018, 10, 577.	4.0	24
35	Understanding hydrological trends by combining the Budyko hypothesis and a stochastic soil moisture model. Hydrological Sciences Journal, 2015, 60, 145-155.	2.6	23
36	Satellite-based simulation of soil freezing/thawing processes in the northeast Tibetan Plateau. Remote Sensing of Environment, 2019, 231, 111269.	11.0	21

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37	Hydrological change driven by human activities and climate variation and its spatial variability in Huaihe Basin, China. Hydrological Sciences Journal, 2016, 61, 1370-1382.	2.6	18
38	Historical and future trends in wetting and drying in 291Âcatchments across China. Hydrology and Earth System Sciences, 2017, 21, 2233-2248.	4.9	16
39	Trend Analysis of Temperature and Precipitation Extremes during Winter Wheat Growth Period in the Major Winter Wheat Planting Area of China. Atmosphere, 2019, 10, 240.	2.3	15
40	Causal effects of dams and land cover changes on flood changes in mainland China. Hydrology and Earth System Sciences, 2021, 25, 2705-2720.	4.9	14
41	Variability of complementary relationship and its mechanism on different time scales. Science in China Series D: Earth Sciences, 2009, 52, 1059-1067.	0.9	12
42	Inconsistency in Chinese solar radiation data caused by instrument replacement: Quantification based on pan evaporation observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3191-3198.	3.3	11
43	Terrestrial Water Storage Change Retrieved by GRACE and Its Implication in the Tibetan Plateau: Estimating Areal Precipitation in Ungauged Region. Remote Sensing, 2020, 12, 3129.	4.0	11
44	Decreases in Mean Annual Streamflow and Interannual Streamflow Variability Across Snowâ€Affected Catchments Under a Warming Climate. Geophysical Research Letters, 2022, 49, .	4.0	10
45	Identification of homogeneous regions in terms of flood seasonality using a complex network approach. Journal of Hydrology, 2019, 576, 726-735.	5.4	9
46	A simple framework for estimating the annual runoff frequency distribution under a non-stationarity condition. Journal of Hydrology, 2021, 592, 125550.	5.4	9
47	Seasonal Characteristics of Disdrometer-Observed Raindrop Size Distributions and Their Applications on Radar Calibration and Erosion Mechanism in a Semi-Arid Area of China. Remote Sensing, 2020, 12, 262.	4.0	8
48	Estimation of Water Surface Energy Partitioning With a Conceptual Atmospheric Boundary Layer Model. Geophysical Research Letters, 2021, 48, e2021GL092643.	4.0	8
49	Harmonious level indexing for ascertaining humanâ€“water relationships. Environmental Earth Sciences, 2018, 77, 1.	2.7	6
50	Assessing the ability of potential evaporation models to capture the sensitivity to temperature. Agricultural and Forest Meteorology, 2022, 317, 108886.	4.8	6
51	Precipitation Characteristic Analysis of the Zhoushan Archipelago: From the View of MSWEP and Rainfall Merging. Water (Switzerland), 2020, 12, 829.	2.7	5
52	Analysis on the Variation of Hydro-Meteorological Variables in the Yongding River Mountain Area Driven by Multiple Factors. Remote Sensing, 2021, 13, 3199.	4.0	5
53	Long term variation of evapotranspiration and water balance based on upscaling eddy covariance observations over the temperate semi-arid grassland of China. Agricultural and Forest Meteorology, 2021, 308-309, 108566.	4.8	5
54	An Improved Conceptual Model Quantifying the Effect of Climate Change and Anthropogenic Activities on Vegetation Change in Arid Regions. Remote Sensing, 2019, 11, 2110.	4.0	4

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55	Development of a Physically Based Soil Albedo Parameterization for the Tibetan Plateau. Vadose Zone Journal, 2018, 17, 1-21.	2.2	3
56	Long-term observed evapotranspiration and its variation caused by anthropogenic controls in an ecofragile region. Agriculture, Ecosystems and Environment, 2022, 335, 108008.	5.3	3
57	Revisiting the Pan Evaporation Trend in China During 1988â€“2017. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3