Yan-fang Sang

List of Publications by Year
in descending order

119 papers	3,677 citations	136740 32 h-index	149479 56 g-index
124 all docs	124 docs citations	124 times ranked	3474 citing authors

#	Article	IF	Citations
1	Wavelet Transform Application for/in Non-Stationary Time-Series Analysis: A Review. Applied Sciences (Switzerland), 2019, 9, 1345.	1.3	270
2	A review on the applications of wavelet transform in hydrology time series analysis. Atmospheric Research, 2013, 122, 8-15.	1.8	247
3	Complementaryâ€Relationshipâ€Based Modeling of Terrestrial Evapotranspiration Across China During 1982â€“2012: Validations and Spatiotemporal Analyses. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4326-4351.	1.2	175
4	A worldwide evaluation of basin-scale evapotranspiration estimates against the water balance method. Journal of Hydrology, 2016, 538, 82-95.	2.3	171
5	Comparison of the MK test and EMD method for trend identification in hydrological time series. Journal of Hydrology, 2014, 510, 293-298.	2.3	139
6	Exploring the water storage changes in the largest lake (<scp>S</scp>elin <scp>C</scp>o) over the <scp>T</scp>ibetan <scp>P</scp>lateau during 2003â€“2012 from a basinâ€wide hydrological modeling. Water Resources Research, 2015, 51, 8060-8086.	1.7	137
7	Global drought and severe drought-affected populations in 1.5Âand 2â€‰Â°C warmer worlds. Earth System Dynamics, 2018, 9, 267-283.	2.7	123
8	Evaluation of three global gridded precipitation data sets in central Asia based on rain gauge observations. International Journal of Climatology, 2018, 38, 3475-3493.	1.5	101
9	A Practical Guide to Discrete Wavelet Decomposition of Hydrologic Time Series. Water Resources Management, 2012, 26, 3345-3365.	1.9	84
10	Dependence of trends in and sensitivity of drought over China (1961â€“2013) on potential evaporation model. Geophysical Research Letters, 2016, 43, 206-213.	1.5	78
11	The relation between periodsâ€™ identification and noises in hydrologic series data. Journal of Hydrology, 2009, 368, 165-177.	2.3	77
12	Addressing Challenges of Urban Water Management in Chinese Sponge Cities via Nature-Based Solutions. Water (Switzerland), 2020, 12, 2788.	1.2	72
13	Period identification in hydrologic time series using empirical mode decomposition and maximum entropy spectral analysis. Journal of Hydrology, 2012, 424-425, 154-164.	2.3	66
14	Large-scale circulation classification and its links to observed precipitation in the eastern and central Tibetan Plateau. Climate Dynamics, 2016, 46, 3481-3497.	1.7	64
15	Entropy-Based Wavelet De-noising Method for Time Series Analysis. Entropy, 2009, 11, 1123-1147.	1.1	63
16	Precipitation variability and response to changing climatic condition in the Yarlung Tsangpo River basin, China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8820-8831.	1.2	58
17	Evaluating satellite-based and reanalysis precipitation datasets with gauge-observed data and hydrological modeling in the Xihe River Basin, China. Atmospheric Research, 2020, 234, 104746.	1.8	57
18	Streamflow change on the Qinghai-Tibet Plateau and its impacts. Chinese Science Bulletin, 2019, 64, 2807-2821.	0.4	57

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19	Urban waterlogs control in China: more effective strategies and actions are needed. Natural Hazards, 2017, 85, 1291-1294.	1.6	56
20	Improved Wavelet Modeling Framework for Hydrologic Time Series Forecasting. Water Resources Management, 2013, 27, 2807-2821.	1.9	54
21	A review of drought monitoring with big data: Issues, methods, challenges and research directions. Ecological Informatics, 2020, 60, 101136.	2.3	52
22	A comparison of three multi-site statistical downscaling models for daily rainfall in the North China Plain. Theoretical and Applied Climatology, 2013, 111, 585-600.	1.3	48
23	Multi-scale assessment of eco-hydrological resilience to drought in China over the last three decades. Science of the Total Environment, 2019, 672, 201-211.	3.9	46
24	Assessing estimates of evaporative demand in climate models using observed pan evaporation over China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8329-8349.	1.2	45
25	Investigating water budget dynamics in 18 river basins across the Tibetan Plateau through multiple datasets. Hydrology and Earth System Sciences, 2018, 22, 351-371.	1.9	43
26	Discrete waveletâ€based trend identification in hydrologic time series. Hydrological Processes, 2013, 27, 2021-2031.	1.1	42
27	Response of Ecosystem Water Use Efficiency to Drought over China during 1982â€“2015: Spatiotemporal Variability and Resilience. Forests, 2019, 10, 598.	0.9	42
28	Temporal and spatial variations in the terrestrial water storage across Central Asia based on multiple satellite datasets and global hydrological models. Journal of Hydrology, 2021, 596, 126013.	2.3	42
29	Entropy-Based Method of Choosing the Decomposition Level in Wavelet Threshold De-noising. Entropy, 2010, 12, 1499-1513.	1.1	40
30	Improving snow process modeling with satelliteâ€based estimation of nearâ€surfaceâ€airâ€temperature lapse rate. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,005.	1.2	39
31	Discussion on the Choice of Decomposition Level for Wavelet Based Hydrological Time Series Modeling. Water (Switzerland), 2016, 8, 197.	1.2	38
32	Pan evaporation paradox and evaporative demand from the past to the future over China: a review. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1207.	2.8	38
33	Increasing population exposure to global warm-season concurrent dry and hot extremes under different warming levels. Environmental Research Letters, 2021, 16, 094002.	2.2	34
34	Wavelet-Based Analysis on the Complexity of Hydrologic Series Data under Multi-Temporal Scales. Entropy, 2011, 13, 195-210.	1.1	33
35	Investigation into the daily precipitation variability in the Yangtze River Delta, China. Hydrological Processes, 2013, 27, 175-185.	1.1	30
36	Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2ÂÂ°C Stabilization Scenarios. Geophysical Research Letters, 2018, 45, 9803-9813.	1.5	29

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37	Long-Term Streamflow Forecasting Based on Relevance Vector Machine Model. Water (Switzerland), 2017, 9, 9.	1.2	28
38	Spatial and temporal variability of daily temperature in the Yangtze River Delta, China. Atmospheric Research, 2012, 112, 12-24.	1.8	26
39	Projection of future rainfall for the North China Plain using two statistical downscaling models and its hydrological implications. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1783-1797.	1.9	26
40	Wavelet-Based Hydrological Time Series Forecasting. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	26
41	Projection of drought hazards in China during twenty-first century. Theoretical and Applied Climatology, 2018, 133, 331-341.	1.3	26
42	A discrete wavelet spectrum approach for identifying non-monotonic trends in hydroclimate data. Hydrology and Earth System Sciences, 2018, 22, 757-766.	1.9	26
43	Evaluation of the significance of abrupt changes in precipitation and runoff process in China. Journal of Hydrology, 2018, 560, 451-460.	2.3	24
44	Effects of the South Asian summer monsoon anomaly on interannual variations in precipitation over the South-Central Tibetan Plateau. Environmental Research Letters, 2020, 15, 124067.	2.2	24
45	Transformation towards resilient sponge cities in China. Nature Reviews Earth & Environment, 2022, 3, 99-101.	12.2	24
46	Increased adversely-affected population from water shortage below normal conditions in China with anthropogenic warming. Science Bulletin, 2019, 64, 567-569.	4.3	22
47	Attributing changes in future extreme droughts based on PDSI in China. Journal of Hydrology, 2019, 573, 607-615.	2.3	22
48	Changes of compound hot and dry extremes on different land surface conditions in China during 1957â€“2018. International Journal of Climatology, 2021, 41, E1085.	1.5	21
49	Spatial and temporal variability of daily temperature during 1961â€“2010 in the Yangtze River Basin, China. Quaternary International, 2013, 304, 33-42.	0.7	19
50	Projecting and Attributing Future Changes of Evaporative Demand over China in CMIP5 Climate Models. Journal of Hydrometeorology, 2017, 18, 977-991.	0.7	18
51	Evaluating remotely sensed monthly evapotranspiration against water balance estimates at basin scale in the Tibetan Plateau. Hydrology Research, 2018, 49, 1977-1990.	1.1	18
52	Improving streamflow and flood simulations in three headwater catchments of the Tarim River based on a coupled glacier-hydrological model. Journal of Hydrology, 2021, 603, 127048.	2.3	17
53	What factors are responsible for the Beijing storm?. Natural Hazards, 2013, 65, 2399-2400.	1.6	16
54	Snow Hydrology in the Upper Yellow River Basin Under Climate Change: A Land Surface Modeling Perspective. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,676.	1.2	16

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55	Comparison of different methods for detecting change points in hydroclimatic time series. Journal of Hydrology, 2019, 577, 123973.	2.3	16
56	Spatio-temporal patterns of drought evolution over the Beijing-Tianjin-Hebei region, China. Journal of Chinese Geography, 2019, 29, 863-876.	1.5	16
57	Evaluation of the landslide susceptibility and its spatial difference in the whole Qinghai-Tibetan Plateau region by five learning algorithms. Geoscience Letters, 2022, 9, .	1.3	16
58	The impact of changing environments on the runoff regimes of the arid Heihe River basin, China. Theoretical and Applied Climatology, 2014, 115, 187-195.	1.3	15
59	Gradation of complexity and predictability of hydrological processes. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5334-5343.	1.2	15
60	An improved nonstationary model for flood frequency analysis and its implication for the Three Gorges Dam, China. Hydrological Sciences Journal, 2019, 64, 845-855.	1.2	15
61	Changes in compound hot and dry day and population exposure across China under climate change. International Journal of Climatology, 2022, 42, 2935-2949.	1.5	15
62	Probabilistic Forecast and Uncertainty Assessment of Hydrologic Design Values Using Bayesian Theories. Human and Ecological Risk Assessment (HERA), 2010, 16, 1184-1207.	1.7	14
63	Wavelet entropy-based investigation into the daily precipitation variability in the Yangtze River Delta, China, with rapid urbanizations. Theoretical and Applied Climatology, 2013, 111, 361-370.	1.3	14
64	Effects of large upstream reservoir operations on cross-sectional changes in the channel of the lower Yellow River reach. Geomorphology, 2021, 387, 107768.	1.1	14
65	Improved continuous wavelet analysis of variation in the dominant period of hydrological time series. Hydrological Sciences Journal, 2013, 58, 118-132.	1.2	13
66	Entropy-Aided Evaluation of Meteorological Droughts Over China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 740-749.	1.2	13
67	Precipitation Complexity and its Spatial Difference in the Taihu Lake Basin, China. Entropy, 2019, 21, 48.	1.1	13
68	Using Geoâ€detector to attribute spatioâ€temporal variation of pan evaporation across China in 1961â€“2001. International Journal of Climatology, 2019, 39, 2833-2840.	1.5	13
69	Does summer precipitation in China exhibit significant periodicities?. Journal of Hydrology, 2020, 581, 124289.	2.3	13
70	Challenges in urban stormwater management in Chinese cities: A hydrologic perspective. Journal of Hydrology, 2020, 591, 125314.	2.3	13
71	Build in prevention and preparedness to improve climate resilience in coastal cities: Lessons from Chinaâ€™s GBA. One Earth, 2021, 4, 1356-1360.	3.6	13
72	Bayesian-combined wavelet regressive modeling for hydrologic time series forecasting. Science Bulletin, 2013, 58, 3796-3805.	1.7	12

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73	Temporalâ€“Spatial Climate Variability in the Headwater Drainage Basins of the Yangtze River and Yellow River, China. Journal of Climate, 2013, 26, 5061-5071.	1.2	12
74	Evolution of IOD-ENSO relationship at multiple time scales. Theoretical and Applied Climatology, 2019, 136, 1303-1309.	1.3	12
75	Effects of Rainfall and Underlying Surface on Flood Recessionâ€”The Upper Huaihe River Basin Case. International Journal of Disaster Risk Science, 2021, 12, 111-120.	1.3	12
76	Exploring the Development of the Sponge City Program (SCP): The Case of Gui'an New District, Southwest China. Frontiers in Water, 2021, 3, .	1.0	12
77	Discrete Wavelet Entropy Aided Detection of Abrupt Change: A Case Study in the Haihe River Basin, China. Entropy, 2012, 14, 1274-1284.	1.1	10
78	Drainage network extraction and morphometric analysis in an Iranian basin using integrating factor analysis and geospatial techniques. Geocarto International, 2022, 37, 896-925.	1.7	10
79	Sponge City Program (SCP) and Urban Flood Management (UFM)â€”The Case of Guiyang, SW China. Water (Switzerland), 2021, 13, 2784.	1.2	10
80	Assessment of spatiotemporal variability of precipitation using entropy indexes: a case study of Beijing, China. Stochastic Environmental Research and Risk Assessment, 2022, 36, 939-953.	1.9	10
81	Wavelet Neural Modeling for Hydrologic Time Series Forecasting with Uncertainty Evaluation. Water Resources Management, 2015, 29, 1789-1801.	1.9	9
82	Near real time de-noising of satellite-based soil moisture retrievals: An intercomparison among three different techniques. Remote Sensing of Environment, 2017, 198, 17-29.	4.6	9
83	Performance Evaluation of Long NDVI Timeseries from AVHRR, MODIS and Landsat Sensors over Landslide-Prone Locations in Qinghai-Tibetan Plateau. Remote Sensing, 2021, 13, 3172.	1.8	8
84	Detection of trend and seasonal changes in non-stationary remote sensing data: Case study of Tunisia vegetation dynamics. Ecological Informatics, 2022, 69, 101596.	2.3	8
85	Uncertainty Analysis of Decomposition Level Choice in Wavelet Threshold De-Noising. Entropy, 2010, 12, 2386-2396.	1.1	7
86	Energy-Based Wavelet De-Noising of Hydrologic Time Series. PLoS ONE, 2014, 9, e110733.	1.1	7
87	Understanding climate-induced changes of snow hydrological processes in the Kaidu River Basin through the CemaNeige-GR6J model. Catena, 2022, 212, 106082.	2.2	7
88	Multidimensional architecture using a massive and heterogeneous data: Application to drought monitoring. Future Generation Computer Systems, 2022, 136, 1-14.	4.9	7
89	Spatial and temporal variability of precipitation extrema in the Haihe River Basin, China. Hydrological Processes, 2014, 28, 926-932.	1.1	6
90	What Caused the Decline of Water Level of Yamzho Yumco During 1975â€“2012 in the Southern Tibetan Plateau?. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031121.	1.2	6

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91	Big data based architecture for drought forecasting using LSTM, ARIMA, and Prophet: Case study of the Jiangsu Province, China. , 2021, , .		6
92	An experimental detrending approach to attributing change of pan evaporation in comparison with the traditional partial differential method. Journal of Hydrology, 2018, 564, 501-508.	2.3	5
93	Precipitation variability and its response to urbanization in the Taihu Lake Basin, China. Theoretical and Applied Climatology, 2021, 144, 1205-1218.	1.3	5
94	Detection of type of trends in surface air temperature in China. Journal of Hydrology, 2021, 596, 126061.	2.3	5
95	Random Forest-Based Reconstruction and Application of the GRACE Terrestrial Water Storage Estimates for the Lancang-Mekong River Basin. Remote Sensing, 2021, 13, 4831.	1.8	5
96	An Improved Wavelet De-noising Method for Time Series Analysis. , 2009, , .		4
97	Nonstationary statistical approach for designing LNWLs in inland waterways: a case study in the downstream of the Lancang River. Stochastic Environmental Research and Risk Assessment, 2018, 32, 3273-3286.	1.9	4
98	Gradation of the significance level of trends in precipitation over China. Hydrology Research, 2018, 49, 1890-1901.	1.1	4
99	Moving correlation coefficient-based method for jump points detection in hydroclimate time series. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1751-1764.	1.9	4
100	Uniform discrete wavelet spectrum for detection of hydrologic variability at multiple timescales. Journal of Hydro-Environment Research, 2021, 35, 31-37.	1.0	4
101	Principle of correlation coefficient-based classification of hydrological trend and its verification. Chinese Science Bulletin, 2017, 62, 3089-3097.	0.4	4
102	A Stochastic Model for Mid-to-Long-Term Runoff Forecast. , 2008, , .		3
103	Comparative Study of Some Improved ANN-Models for Hydrologic Time Series Forecast. , 2009, , .		3
104	Is there an underestimation of long-term variability of streamflow across the continental United States?. Journal of Hydrology, 2020, 581, 124365.	2.3	3
105	Discussion on several major issues in the studies of hydrological nonstationarity. Chinese Science Bulletin, 2017, 62, 254-261.	0.4	3
106	Development of river morphologic stability index (RMSI) to assess mountain river systems. Journal of Hydrology: Regional Studies, 2021, 37, 100918.	1.0	2
107	New Method for Estimating Periods in Hydrologic Series Data. , 2008, , .		1
108	A New Method of Periods' Identification in Hydrologic Series Based on EEMD. , 2009, , .		1

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109	â€œAssessing the key drivers of stream network configuration dynamics for tectonically active drainage basins using multitemporal satellite imagery and statistical analysesâ€• Geocarto International, 0, , 1-32.	1.7	1
110	Correlation-aided method for identification and gradation of periodicities in hydrologic time series. Geoscience Letters, 2021, 8, .	1.3	1
111	Moving correlation coefficient-based method for the identification of periodicities in hydrologic time series. Chinese Science Bulletin, 2019, 64, 2549-2560.	0.4	1
112	A PHYSICOCHEMICAL ASSESSMENT OF UPPER CATCHMENT WITHIN THE AYER HITAM FOREST RESERVE, PENINSULAR MALAYSIA. Journal of Sustainability Science and Management, 2022, 17, 129-150.	0.2	1
113	One Improved SAGA-ML Method for Parameters Estimation of Hydrologic Frequency Models. , 2009, , .		0
114	Study on the WCC Method for Time Series Data Analysis. , 2009, , .		0
115	Spatial Heterogeneity in the Occurrence Probability of Rainstorms over China. Entropy, 2018, 20, 958.	1.1	0
116	Challenges of Hydrologic Nonstationarity: Mountain Torrent Control in China. Journal of Hydrologic Engineering - ASCE, 2019, 24, 02519001.	0.8	0
117	A framework for determining lowest navigable water levels with nonstationary characteristics. Stochastic Environmental Research and Risk Assessment, 2022, 36, 583-608.	1.9	0
118	Editorial: Urban Flood Resilience and Sustainable Flood Management Strategies in Megacities. Frontiers in Water, 2022, 3, .	1.0	0
119	æ°´æ–‡æ—¶é—´åºåˆ—æœŸåˆ†æžç‚„RIC_på‡†åˆ™. Chinese Science Bulletin, 2020, , .		0