Tao Yang

List of Publications by Year
in descending order

69 papers	1,909 citations	279701 23 h-index	276775 41 g-index
70 all docs	70 docs citations	70 times ranked	2226 citing authors

#	ARTICLE	IF	CITATIONS
1	Applicability and performance of statistical index, certain factor and frequency ratio models in mapping landslides susceptibility in Rwanda. Geocarto International, 2022, 37, 638-656.	1.7	18
2	Temporal-spatial variations of vegetation cover and surface soil moisture in the growing season across the mountain-oasis-desert system in Xinjiang, China. Geocarto International, 2022, 37, 3912-3940.	1.7	4
3	Evaluation of snow depth and snow cover represented by multiple datasets over the Tianshan Mountains: Remote sensing, reanalysis, and simulation. International Journal of Climatology, 2022, 42, 4223-4239.	1.5	12
4	Spatio-Temporal Heterogeneity of Climate Warming in the Chinese Tianshan Mountainous Region. Water (Switzerland), 2022, 14, 199.	1.2	7
5	Optimizing Irrigation Strategies to Improve Water Use Efficiency of Cotton in Northwest China Using RZWQM2. Agriculture (Switzerland), 2022, 12, 383.	1.4	11
6	Projection of hydrothermal condition in Central Asia under four SSP-RCP scenarios. Journal of Arid Land, 2022, 14, 521-536.	0.9	0
7	Changes in soil carbon and nitrogen stocks following degradation of alpine grasslands on the <scp>Qinghaiâ€Tibetan</scp> Plateau: A metaâ€analysis. Land Degradation and Development, 2021, 32, 1262-1273.	1.8	25
8	Characteristics and hazards of different snow avalanche types in a continental snow climate region in the Central Tianshan Mountains. Journal of Arid Land, 2021, 13, 317-331.	0.9	8
9	Variation of Snow Mass in a Regional Climate Model Downscaling Simulation Covering the Tianshan Mountains, Central Asia. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034183.	1.2	11
10	Timing and identification of potential snow avalanche types: a case study of the central Tianshan Mountains. Landslides, 2021, 18, 3845-3856.	2.7	7
11	Mapping snow avalanche debris by object-based classification in mountainous regions from Sentinel-1 images and causative indices. Catena, 2021, 206, 105559.	2.2	10
12	Quantifying the response of surface urban heat island to urban greening in global north megacities. Science of the Total Environment, 2021, 801, 149553.	3.9	37
13	Integrated Geospatial Analysis and Hydrological Modeling for Peak Flow and Volume Simulation in Rwanda. Water (Switzerland), 2021, 13, 2926.	1.2	11
14	Impact of Winter Snowfall on Vegetation Greenness in Central Asia. Remote Sensing, 2021, 13, 4205.	1.8	5
15	Application of the Adapted Approach for Crop Management Factor to Assess Soil Erosion Risk in an Agricultural Area of Rwanda. Land, 2021, 10, 1056.	1.2	5
16	Impact of forcing data and land surface properties on snow simulation in a regional climate model: a case study over the Tianshan Mountains, Central Asia. Journal of Mountain Science, 2021, 18, 3147-3164.	0.8	5
17	Landslide susceptibility and influencing factors analysis in Rwanda. Environment, Development and Sustainability, 2020, 22, 7985-8012.	2.7	51
18	Changes in soil labile and recalcitrant carbon pools after land-use change in a semi-arid agro-pastoral ecotone in Central Asia. Ecological Indicators, 2020, 110, 105925.	2.6	41

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19	Spatiotemporal variability of snowfall and its concentration in northern Xinjiang, Northwest China. Theoretical and Applied Climatology, 2020, 139, 1247-1259.	1.3	20
20	Automatic Detection of Regional Snow Avalanches with Scattering and Interference of C-band SAR Data. Remote Sensing, 2020, 12, 2781.	1.8	11
21	Evaluation of spatiotemporal variability of temperature and precipitation over the Karakoram Highway region during the cold season by a Regional Climate Model. Journal of Mountain Science, 2020, 17, 2108-2122.	0.8	4
22	Performance and uncertainty analysis of a short-term climate reconstruction based on multi-source data in the Tianshan Mountains region, China. Journal of Arid Land, 2020, 12, 374-396.	0.9	4
23	Spatial-temporal characteristics and influencing factors of relative humidity in arid region of Northwest China during 1966–2017. Journal of Arid Land, 2020, 12, 397-412.	0.9	15
24	Does Grazing Exclusion Improve Soil Carbon and Nitrogen Stocks in Alpine Grasslands on the Qinghai-Tibetan Plateau? A Meta-Analysis. Sustainability, 2020, 12, 977.	1.6	13
25	Impact of different microphysics and cumulus parameterizations in WRF for heavy rainfall simulations in the central segment of the Tianshan Mountains, China. Atmospheric Research, 2020, 244, 105052.	1.8	14
26	Estimating landslides vulnerability in Rwanda using analytic hierarchy process and geographic information system. Integrated Environmental Assessment and Management, 2019, 15, 364-373.	1.6	14
27	Heavy metals uptake and transport by native wild plants: implications for phytoremediation and restoration. Environmental Earth Sciences, 2019, 78, 1.	1.3	25
28	Reference evapotranspiration concentration and its relationship with precipitation concentration at southern and northern slopes of Tianshan Mountains, China. Journal of Mountain Science, 2019, 16, 1381-1395.	0.8	0
29	Patterns in snow depth maximum and snow cover days during 1961–2015 period in the Tianshan Mountains, Central Asia. Atmospheric Research, 2019, 228, 14-22.	1.8	28
30	Changes in Snow Phenology from 1979 to 2016 over the Tianshan Mountains, Central Asia. Remote Sensing, 2019, 11, 499.	1.8	32
31	A Model-Based Real-Time Decision Support System for Irrigation Scheduling to Improve Water Productivity. Agronomy, 2019, 9, 686.	1.3	26
32	Environmental factors influencing snowfall and snowfall prediction in the Tianshan Mountains, Northwest China. Journal of Arid Land, 2019, 11, 15-28.	0.9	17
33	Snow depth reconstruction over last century: Trend and distribution in the Tianshan Mountains, China. Global and Planetary Change, 2019, 173, 73-82.	1.6	26
34	Land-use change affects stocks and stoichiometric ratios of soil carbon, nitrogen, and phosphorus in a typical agro-pastoral region of northwest China. Journal of Soils and Sediments, 2018, 18, 3167-3176.	1.5	26
35	Dynamics of soil carbon and nitrogen stocks after afforestation in arid and semi-arid regions: A meta-analysis. Science of the Total Environment, 2018, 618, 1658-1664.	3.9	84
36	Spatiotemporal Variation of Snowfall to Precipitation Ratio and Its Implication on Water Resources by a Regional Climate Model over Xinjiang, China. Water (Switzerland), 2018, 10, 1463.	1.2	16

#	Article	IF	Citations
37	Accuracy of CHIRPS Satellite-Rainfall Products over Mainland China. Remote Sensing, 2018, 10, 362.	1.8	123
38	Vertical distributions of soil carbon and nitrogen fractions as affected by land-uses in the Ili River Valley. Chemistry and Ecology, 2017, 33, 143-155.	0.6	13
39	Early alert and community involvement: approach for disaster risk reduction in Rwanda. Natural Hazards, 2017, 86, 505-517.	1.6	25
40	Land-use impacts on profile distribution of labile and recalcitrant carbon in the Ili River Valley, northwest China. Science of the Total Environment, 2017, 586, 1038-1045.	3.9	30
41	Streamflow Pattern Variations Resulting from Future Climate Change in Middle Tianshan Mountains Region in China. , 2017, , .		2
42	Water in Central Asia: an integrated assessment for science-based management. Environmental Earth Sciences, 2017, 76, 1.	1.3	57
43	Estimating Snow Depth Using Multi-Source Data Fusion Based on the D-InSAR Method and 3DVAR Fusion Algorithm. Remote Sensing, 2017, 9, 1195.	1.8	20
44	Sensitivity of runoff to climatic variability in the northern and southern slopes of the Middle Tianshan Mountains, China. Journal of Arid Land, 2016, 8, 681-693.	0.9	18
45	Response of N2O emissions to biochar amendment in a cultivated sandy loam soil during freeze-thaw cycles. Scientific Reports, 2016, 6, 35411.	1.6	12
46	Interdecadal variations of pan-evaporation at the southern and northern slopes of the Tianshan Mountains, China. Journal of Arid Land, 2016, 8, 832-845.	0.9	5
47	Water-level regulation for freshwater management of Bosten Lake in Xinjiang, China. Water Science and Technology: Water Supply, 2016, 16, 828-836.	1.0	10
48	Long-term oscillation of drought conditions in the western China: an analysis of PDSI on a decadal scale. Journal of Arid Land, 2016, 8, 819-831.	0.9	12
49	Simulating low and high streamflow driven by snowmelt in an insufficiently gauged alpine basin. Stochastic Environmental Research and Risk Assessment, 2016, 30, 59-75.	1.9	55
50	Characterizing the accumulation of various heavy metals in native plants growing around an old antimony mine. Human and Ecological Risk Assessment (HERA), 2016, 22, 882-898.	1.7	10
51	Simulating low and high streamflow driven by snowmelt in an insufficiently gauged alpine basin. , 2016, 30, 59.		3
52	Variation of the proportion of precipitation occurring as snow in the Tian Shan Mountains, China. International Journal of Climatology, 2015, 35, 1379-1393.	1.5	79
53	Dynamics model to simulate water and salt balance of Bosten Lake in Xinjiang, China. Environmental Earth Sciences, 2015, 74, 2499-2510.	1.3	62
54	Dynamics model to simulate water and salt balance of Bosten Lake in Xinjiang, China. , 2015, 74, 2499.		3

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55	Greenhouse Gas Emissions from Cotton Field under Different Irrigation Methods and Fertilization Regimes in Arid Northwestern China. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	19
56	Detection of QTL on panicle number in rice (Oryza sativa L.) under different densities with single segment substitution lines. Euphytica, 2014, 195, 355-368.	0.6	6
57	Characterizing the changing behaviours of precipitation concentration in the Yangtze River Basin, China. Hydrological Processes, 2013, 27, 3375-3393.	1.1	79
58	A system dynamics approach for water resources policy analysis in arid land: a model for Manas River Basin. Journal of Arid Land, 2013, 5, 118-131.	0.9	34
59	A Dynamic Model for Vulnerability Assessment of Regional Water Resources in Arid Areas: A Case Study of Bayingolin, China. Water Resources Management, 2013, 27, 3085-3101.	1.9	120
60	Reconstruction of hydrometeorological time series and its uncertainties for the Kaidu River Basin using multiple data sources. Theoretical and Applied Climatology, 2013, 113, 45-62.	1.3	11
61	Incorporating accumulated temperature and algorithm of snow cover calculation into the snowmelt runoff model. Hydrological Processes, 2013, 27, 3589-3595.	1.1	17
62	Water losses in arid and semi-arid zone: Evaporation, evapotranspiration and seepage. Journal of Mountain Science, 2012, 9, 256-261.	0.8	7
63	Spatial and temporal variability of precipitation concentration index, concentration degree and concentration period in Xinjiang, China. International Journal of Climatology, 2011, 31, 1679-1693.	1.5	138
64	Streamflow Simulation by SWAT Using Different Precipitation Sources in Large Arid Basins with Scarce Raingauges. Water Resources Management, 2011, 25, 2669-2681.	1.9	73
65	Antimony Accumulation, Growth Performance, Antioxidant Defense System and Photosynthesis of Zea mays in Response to Antimony Pollution in Soil. Water, Air, and Soil Pollution, 2011, 215, 517-523.	1.1	86
66	The simulation of snowmelt runoff in the ungauged Kaidu River Basin of TianShan Mountains, China. Environmental Earth Sciences, 2011, 62, 1039-1045.	1.3	40
67	Impacts of global warming perturbation on water resources in arid zone: Case study of Kaidu River Basin in Northwest China. Journal of Mountain Science, 2011, 8, 704-710.	0.8	7
68	Streamflow Forecast and Reservoir Operation Performance Assessment Under Climate Change. Water Resources Management, 2010, 24, 83-104.	1.9	90
69	Notice of Retraction: An assessment of the spatial distribution of Pentecost churches in an African urban environment: A case study of Lubumbashi City in the Democratic Republic of the Congo. , 2010, , .		0