Qiang Tie

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1892675/publications.pdf

Version: 2024-02-01

76 papers	2,404 citations	236925 25 h-index	223800 46 g-index
76 all docs	76 docs citations	76 times ranked	2810 citing authors

#	Article	IF	Citations
1	Ground validation of GPM IMERG and TRMM 3B42V7 rainfall products over southern Tibetan Plateau based on a highâ€density rain gauge network. Journal of Geophysical Research D: Atmospheres, 2017, 122, 910-924.	3.3	323
2	Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. Water Resources Research, 2019, 55, 6327-6355.	4.2	226
3	Urban signatures in the spatial clustering of summer heavy rainfall events over the Beijing metropolitan region. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1203-1217.	3.3	86
4	Urbanization and Climate Change: An Examination of Nonstationarities in Urban Flooding. Journal of Hydrometeorology, 2013, 14, 1791-1809.	1.9	79
5	Dam Construction in Lancangâ€Mekong River Basin Could Mitigate Future Flood Risk From Warmingâ€Induced Intensified Rainfall. Geophysical Research Letters, 2017, 44, 10,378.	4.0	79
6	Impact of Urbanization on Heavy Convective Precipitation under Strong Large-Scale Forcing: A Case Study over the Milwaukeeâ€“Lake Michigan Region. Journal of Hydrometeorology, 2014, 15, 261-278.	1.9	74
7	Intercomparisons of Rainfall Estimates from TRMM and GPM Multisatellite Products over the Upper Mekong River Basin. Journal of Hydrometeorology, 2017, 18, 413-430.	1.9	74
8	Increasing compound events of extreme hot and dry days during growing seasons of wheat and maize in China. Scientific Reports, 2018, 8, 16700.	3.3	68
9	Derivation of a Sigmoid Generalized Complementary Function for Evaporation With Physical Constraints. Water Resources Research, 2018, 54, 5050-5068.	4.2	60
10	From channelization to restoration: Sociohydrologic modeling with changing community preferences in the <scp>K</scp>issimmee <scp>R</scp>iver <scp>B</scp>asin, <scp>F</scp>lorida. Water Resources Research, 2016, 52, 1227-1244.	4.2	59
11	A nonlinear function approach for the normalized complementary relationship evaporation model. Hydrological Processes, 2012, 26, 3973-3981.	2.6	58
12	Exploring synergies in the water-food-energy nexus by using an integrated hydro-economic optimization model for the Lancang-Mekong River basin. Science of the Total Environment, 2020, 728, 137996.	8.0	58
13	Recent and future trends in sea surface temperature across the Persian Gulf and Gulf of Oman. PLoS ONE, 2019, 14, e0212790.	2.5	55
14	Soil particle size distribution and its relationship with soil water and salt under mulched drip irrigation in Xinjiang of China. Science China Technological Sciences, 2011, 54, 1568-1574.	4.0	52
15	Changes in seasonal maximum daily precipitation in China over the period 1961â€“2006. International Journal of Climatology, 2013, 33, 1646-1657.	3.5	47
16	A complementary relationship evaporation model referring to the Granger model and the advectionâ€“aridity model. Hydrological Processes, 2011, 25, 2094-2101.	2.6	44
17	Typhoon Nina and the August 1975 Flood over Central China. Journal of Hydrometeorology, 2017, 18, 451-472.	1.9	43
18	Positive or negative correlation between actual and potential evaporation? Evaluating using a nonlinear complementary relationship model. Water Resources Research, 2014, 50, 1322-1336.	4.2	39

#	Article	IF	Citations
19	Evaluation of Temperature and Precipitation Simulations in CMIP6 Models Over the Tibetan Plateau. Earth and Space Science, 2021, 8, e2020EA001620.	2.6	39
20	The role of run-on for overland flow and the characteristics of runoff generation in the Loess Plateau, China. Hydrological Sciences Journal, 2012, 57, 1107-1117.	2.6	37
21	Functional approach to exploring climatic and landscape controls of runoff generation: 1. Behavioral constraints on runoff volume. Water Resources Research, 2014, 50, 9300-9322.	4.2	32
22	Divergence of stable isotopes in tap water across China. Scientific Reports, 2017, 7, 43653.	3.3	30
23	Comparing different methods for determining forest evapotranspiration and its components at multiple temporal scales. Science of the Total Environment, 2018, 633, 12-29.	8.0	28
24	Monitoring the spatio-temporal impact of small tributaries on the hydrochemical characteristics of Ramganga River, Ganges Basin, India. International Journal of River Basin Management, 2020, 18, 231-241.	2.7	28
25	Ecohydrological evolution model on riparian vegetation in hyperarid regions and its validation in the lower reach of Tarim River. Hydrological Processes, 2012, 26, 2049-2060.	2.6	27
26	Water Balance within Intensively Cultivated Alluvial Plain in an Arid Environment. Water Resources Management, 2007, 21, 1703-1715.	3.9	26
27	Thermodynamic watershed hydrological model: Constitutive relationship. Science in China Series D: Earth Sciences, 2008, 51, 1353-1369.	0.9	26
28	A numerical model for water and heat transport in freezing soils with nonequilibrium iceâ€water interfaces. Water Resources Research, 2016, 52, 7366-7381.	4.2	26
29	Estimation of suspended sediment load using three neural network algorithms in Ramganga River catchment of Ganga Basin, India. Sustainable Water Resources Management, 2019, 5, 1115-1131.	2.1	26
30	Socio-hydrologic modeling of the dynamics of cooperation in the transboundary Lancangâ€“Mekong River. Hydrology and Earth System Sciences, 2021, 25, 1883-1903.	4.9	26
31	Determinants of the Asymmetric Parameter in the Generalized Complementary Principle of Evaporation. Water Resources Research, 2020, 56, e2019WR026570.	4.2	25
32	Partitioning of Cotton Field Evapotranspiration under Mulched Drip Irrigation Based on a Dual Crop Coefficient Model. Water (Switzerland), 2016, 8, 72.	2.7	24
33	Structure and evolution of flash flood producing storms in a small urban watershed. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3139-3152.	3.3	24
34	Stable Isotope Composition of River Waters across the World. Water (Switzerland), 2019, 11, 1760.	2.7	24
35	Comparison of the Vegetation Effect on ET Partitioning Based on Eddy Covariance Method at Five Different Sites of Northern China. Remote Sensing, 2018, 10, 1755.	4.0	23
36	Urbanization Exacerbated Rainfall Over European Suburbs Under a Warming Climate. Geophysical Research Letters, 2021, 48, e2021GL095987.	4.0	23

#	Article	IF	Citations
37	Correcting the TRMM rainfall product for hydrological modelling in sparsely-gauged mountainous basins. Hydrological Sciences Journal, 2017, 62, 306-318.	2.6	21
38	A Machine learning framework to predict reverse flow and water level: A case study of Tonle Sap Lake. Journal of Hydrology, 2021, 603, 127168.	5.4	21
39	Mapping Groundwater Potential Zones Using Analytical Hierarchical Process and Multicriteria Evaluation in the Central Eastern Desert, Egypt. Water (Switzerland), 2022, 14, 1041.	2.7	21
40	GIS and RS intelligence in delineating the groundwater potential zones in Arid Regions: a case study of southern Aseer, southwestern Saudi Arabia. Applied Water Science, 2022, 12, 1.	5.6	20
41	Dynamics and driving mechanisms of asymmetric human water consumption during alternating wet and dry periods. Hydrological Sciences Journal, 2019, 64, 507-524.	2.6	18
42	ThSSim: A novel tool for simulation of reservoir thermal stratification. Scientific Reports, 2019, 9, 18524.	3.3	18
43	Sigmoid Generalized Complementary Equation for Evaporation Over Wet Surfaces: A Nonlinear Modification of the Priestleyâ€Taylor Equation. Water Resources Research, 2021, 57, e2020WR028737.	4.2	18
44	Planting and Irrigation Methods for Cotton in Southern Xinjiang, China. Irrigation and Drainage, 2016, 65, 461-468.	1.7	16
45	Climate More Important for Chinese Flood Changes Than Reservoirs and Land Use. Geophysical Research Letters, 2021, 48, e2021GL093061.	4.0	16
46	Rivers and reciprocity: perceptions and policy on international watercourses. Water Policy, 2016, 18, 803-825.	1.5	15
47	Spatial Scale Effect of Surface Routing and Its Parameter Upscaling for Urban Flood Simulation Using a Gridâ€Based Model. Water Resources Research, 2020, 56, e2019WR025468.	4.2	15
48	Influence of Anionic Surfactant on Saturated Hydraulic Conductivity of Loamy Sand and Sandy Loam Soils. Water (Switzerland), 2017, 9, 433.	2.7	14
49	A land surface model incorporated with soil freeze/thaw and its application in GAME/Tibet. Science in China Series D: Earth Sciences, 2006, 49, 1311-1322.	0.9	13
50	PODMT3DMS-Tool: proper orthogonal decomposition linked to the MT3DMS model for nitrate simulation in aquifers. Hydrogeology Journal, 2020, 28, 1125-1142.	2.1	13
51	CART and PSO+KNN algorithms to estimate the impact of water level change on water quality in Poyang Lake, China. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	12
52	Integration of <scp>Penman</scp> approach with complementary principle for evaporation research. Hydrological Processes, 2018, 32, 3051-3058.	2.6	11
53	Searching for an Optimized Single-objective Function Matching Multiple Objectives with Automatic Calibration of Hydrological Models. Chinese Geographical Science, 2019, 29, 934-948.	3.0	11
54	Enabling policy environment for water, food and energy security. Irrigation and Drainage, 2021, 70, 392-409.	1.7	10

#	Article	IF	Citations
55	Current status and recent trend of irrigation water use in China *. Irrigation and Drainage, 2020, 69, 25-35.	1.7	9
56	Analysis of the effect of regional lateral inflow on the flood peak of the Three Gorges Reservoir. Science China Technological Sciences, 2011, 54, 914-923.	4.0	8
57	Spatial Variability of Soil Moisture in a Forest Catchment: Temporal Trend and Contributors. Forests, 2016, 7, 154.	2.1	8
58	Understanding of Storm Runoff Generation in a Weathered, Fractured Granitoid Headwater Catchment in Northern China. Water (Switzerland), 2019, 11, 123.	2.7	8
59	A two-dimensional Richards equation solver based on CVODE for variably saturated soil water movement. Science China Technological Sciences, 2011, 54, 3251-3264.	4.0	7
60	Spatioâ€temporal variations of soil moisture and salinity and their effects on cotton growth in a mulched drip irrigation field[*]. Irrigation and Drainage, 2020, 69, 928-943.	1.7	7
61	Characteristics of soil water retention curve at macro-scale. Science in China Series D: Earth Sciences, 2009, 52, 2990-2996.	0.9	6
62	Comparison of Precipitation and Streamflow Correcting for Ensemble Streamflow Forecasts. Water (Switzerland), 2018, 10, 177.	2.7	6
63	Reply to Comment by J. Szilagyi and R. Crago on â€œDerivation of a Sigmoid Generalized Complementary Function for Evaporation With Physical Constraintsâ€• Water Resources Research, 2019, 55, 1734-1736.	4.2	6
64	Triple isotope variations of monthly tap water in China. Scientific Data, 2020, 7, 336.	5.3	6
65	Spatial averaging infiltration model for layered soil. Science in China Series D: Earth Sciences, 2009, 52, 1050-1058.	0.9	5
66	Ecohydrological Separation Hypothesis: Review and Prospect. Water (Switzerland), 2020, 12, 2077.	2.7	5
67	High-frequency monitoring of the occurrence of preferential flow on hillslopes and its relationship with rainfall features, soil moisture and landscape. Hydrological Sciences Journal, 2019, 64, 1385-1396.	2.6	4
68	Comment on â€œA Calibrationâ€Free Formulation of the Complementary Relationship of Evaporation for Continentalâ€Scale Hydrologyâ€• by J. Szilagyi etÂal.. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033403.	3.3	4
69	Climate Leads to Reversed Latitudinal Changes in Chinese Flood Peak Timing. Earth's Future, 2022, 10, .	6.3	4
70	A two-dimensional numerical model coupled with multiple hillslope hydrodynamic processes and its application to subsurface flow simulation. Science China Technological Sciences, 2013, 56, 2491-2500.	4.0	3
71	Improving satellite rainfall estimates over Tibetan plateau using in situ soil moisture observation and SMAP retrievals. , 2017, , .		3
72	Opening Configuration Design Effects on Pooled Stepped Chutes. Journal of Hydraulic Engineering, 2021, 147, 06021011.	1.5	2

#	Article	IF	Citations
73	Impact of plastic mulch on the surface soil heat flux estimation over cotton in northwest China. , 2016, , .		1
74	Improving Gpm Precipitation Data Over Yarlung Zangbo River Basin Using Smap Soil Moisture Retrievals. , 2018, , .		1
75	Performance of spatio-temporal scale in the streamflow trend - Evidence in jialing river basin, China. , 2011, , .		0
76	Prioritizing Design Parameters for Stepped Chutes and Shear Stress Distribution. Water (Switzerland), 2021, 13, 1155.	2.7	0