Fuqiang Tian

List of Publications by Year
in descending order

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116	4,347	94433 37	128289 60
papers	citations	h-index	g-index

119	119	119	4861
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
2	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
3	Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. Water Resources Research, 2019, 55, 6327-6355.	4.2	226
4	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
5	Results of the DMIP 2 Oklahoma experiments. Journal of Hydrology, 2012, 418-419, 17-48.	5.4	97
6	Exploring the spatial variability of contributions from climate variation and change in catchment properties to streamflow decrease in a mesoscale basin by three different methods. Journal of Hydrology, 2014, 508, 170-180.	5.4	95
7	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
8	Urbanization and Climate Change: An Examination of Nonstationarities in Urban Flooding. Journal of Hydrometeorology, 2013, 14, 1791-1809.	1.9	79
9	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
10	How Does the Evaluation of the GPM IMERG Rainfall Product Depend on Gauge Density and Rainfall Intensity?. Journal of Hydrometeorology, 2018, 19, 339-349.	1.9	79
11	Contrasting impacts of urban forms on the future thermal environment: example of Beijing metropolitan area. Environmental Research Letters, 2016, 11, 034018.	5.2	77
12	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
13	Environmental and physiological controls on sap flow in a subhumid mountainous catchment in North China. Agricultural and Forest Meteorology, 2017, 240-241, 46-57.	4.8	74
14	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
15	Soil moisture controls on patterns of grass green-up in Inner Mongolia: an index based approach. Hydrology and Earth System Sciences, 2013, 17, 805-815.	4.9	69
16	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
17	Artificial neural network simulation for prediction of suspended sediment concentration in the River Ramganga, Ganges Basin, India. International Journal of Sediment Research, 2019, 34, 95-107.	3.5	68
18	Derivation of a Sigmoid Generalized Complementary Function for Evaporation With Physical Constraints. Water Resources Research, 2018, 54, 5050-5068.	4.2	60

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19	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
20	A nonlinear function approach for the normalized complementary relationship evaporation model. Hydrological Processes, 2012, 26, 3973-3981.	2.6	58
21	Crop coefficient for cotton under plastic mulch and drip irrigation based on eddy covariance observation in an arid area of northwestern China. Agricultural Water Management, 2016, 171, 21-30.	5.6	58
22	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
23	Comparative diagnostic analysis of runoff generation processes in Oklahoma DMIP2 basins: The Blue River and the Illinois River. Journal of Hydrology, 2012, 418-419, 90-109.	5.4	56
24	Recent and future trends in sea surface temperature across the Persian Gulf and Gulf of Oman. PLoS ONE, 2019, 14, e0212790.	2.5	55
25	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
26	Soil salt distribution under mulched drip irrigation in an arid area of northwestern China. Journal of Arid Environments, 2014, 104, 23-33.	2.4	49
27	Changes in seasonal maximum daily precipitation in China over the period 1961â€“2006. International Journal of Climatology, 2013, 33, 1646-1657.	3.5	47
28	Water and nutrient balances in a large tile-drained agricultural catchment: a distributed modeling study. Hydrology and Earth System Sciences, 2010, 14, 2259-2275.	4.9	45
29	Projected climate change impacts on future streamflow of the Yarlung Tsangpo-Brahmaputra River. Global and Planetary Change, 2019, 175, 144-159.	3.5	45
30	Development of a comprehensive framework for assessing the impacts of climate change and dam construction on flow regimes. Journal of Hydrology, 2020, 590, 125358.	5.4	45
31	A review of the complementary principle of evaporation: from the original linear relationship to generalized nonlinear functions. Hydrology and Earth System Sciences, 2020, 24, 2269-2285.	4.9	45
32	A complementary relationship evaporation model referring to the Granger model and the advectionâ€“aridity model. Hydrological Processes, 2011, 25, 2094-2101.	2.6	44
33	Typhoon Nina and the August 1975 Flood over Central China. Journal of Hydrometeorology, 2017, 18, 451-472.	1.9	43
34	Model diagnostic analysis of seasonal switching of runoff generation mechanisms in the Blue River basin, Oklahoma. Journal of Hydrology, 2012, 418-419, 136-149.	5.4	41
35	Energy balance and canopy conductance for a cotton field under film mulched drip irrigation in an arid region of northwestern China. Agricultural Water Management, 2017, 179, 110-121.	5.6	41
36	Combined use of tracer approach and numerical simulation to estimate groundwater recharge in an alluvial aquifer system: A case study of Nasunogahara area, central Japan. Journal of Hydrology, 2014, 519, 833-847.	5.4	40

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37	Statistical characteristics of raindrop size distribution during rainy seasons in the Beijing urban area and implications for radar rainfall estimation. Hydrology and Earth System Sciences, 2019, 23, 4153-4170.	4.9	40
38	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
39	Evaluation of Temperature and Precipitation Simulations in CMIP6 Models Over the Tibetan Plateau. Earth and Space Science, 2021, 8, e2020EA001620.	2.6	39
40	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
41	A need to revisit hydrologic responses to urbanization by incorporating the feedback on spatial rainfall patterns. Urban Climate, 2015, 12, 128-140.	5.7	34
42	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
43	Divergence of stable isotopes in tap water across China. Scientific Reports, 2017, 7, 43653.	3.3	30
44	Spatial and temporal variations of tap water 17O-excess in China. Geochimica Et Cosmochimica Acta, 2019, 260, 1-14.	3.9	30
45	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
46	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
47	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
48	Water Balance within Intensively Cultivated Alluvial Plain in an Arid Environment. Water Resources Management, 2007, 21, 1703-1715.	3.9	26
49	Thermodynamic watershed hydrological model: Constitutive relationship. Science in China Series D: Earth Sciences, 2008, 51, 1353-1369.	0.9	26
50	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
51	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
52	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
53	Determinants of the Asymmetric Parameter in the Generalized Complementary Principle of Evaporation. Water Resources Research, 2020, 56, e2019WR026570.	4.2	25
54	Partitioning of Cotton Field Evapotranspiration under Mulched Drip Irrigation Based on a Dual Crop Coefficient Model. Water (Switzerland), 2016, 8, 72.	2.7	24

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55	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
56	Stable Isotope Composition of River Waters across the World. Water (Switzerland), 2019, 11, 1760.	2.7	24
57	Socio-hydrological perspectives of the co-evolution of humans and groundwater in Cangzhou, North China Plain. Hydrology and Earth System Sciences, 2017, 21, 3619-3633.	4.9	23
58	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
59	Urbanization Exacerbated Rainfall Over European Suburbs Under a Warming Climate. Geophysical Research Letters, 2021, 48, e2021GL095987.	4.0	23
60	Correcting the TRMM rainfall product for hydrological modelling in sparsely-gauged mountainous basins. Hydrological Sciences Journal, 2017, 62, 306-318.	2.6	21
61	Effect of Temporal Resolution of Rainfall on Simulation of Urban Flood Processes. Water (Switzerland), 2018, 10, 880.	2.7	21
62	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
63	Hydrologically Enhanced Distributed Urban Drainage Model and Its Application in Beijing City. Journal of Hydrologic Engineering - ASCE, 2012, 17, 667-678.	1.9	18
64	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
65	ThSSim: A novel tool for simulation of reservoir thermal stratification. Scientific Reports, 2019, 9, 18524.	3.3	18
66	The value of water isotope data on improving process understanding in a glacierized catchment on the Tibetan Plateau. Hydrology and Earth System Sciences, 2021, 25, 3653-3673.	4.9	18
67	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
68	News media coverage of conflict and cooperation dynamics of water events in the Lancangâ€“Mekong River basin. Hydrology and Earth System Sciences, 2021, 25, 1603-1615.	4.9	17
69	Planting and Irrigation Methods for Cotton in Southern Xinjiang, China. Irrigation and Drainage, 2016, 65, 461-468.	1.7	16
70	Climate More Important for Chinese Flood Changes Than Reservoirs and Land Use. Geophysical Research Letters, 2021, 48, e2021GL093061.	4.0	16
71	Effects of Plastic Mulch on Soil Heat Flux and Energy Balance in a Cotton Field in Northwest China. Atmosphere, 2016, 7, 107.	2.3	15
72	Rivers and reciprocity: perceptions and policy on international watercourses. Water Policy, 2016, 18, 803-825.	1.5	15

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73	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
74	A high-accuracy rainfall dataset by merging multiple satellites and dense gauges over the southern Tibetan Plateau for 2014â€“2019 warm seasons. Earth System Science Data, 2021, 13, 5455-5467.	9.9	15
75	Influence of Anionic Surfactant on Saturated Hydraulic Conductivity of Loamy Sand and Sandy Loam Soils. Water (Switzerland), 2017, 9, 433.	2.7	14
76	Understanding the potential sources and environmental impacts of dissolved and suspended organic carbon in the diversified Ramganga River, Ganges Basin, India. Proceedings of the International Association of Hydrological Sciences, 0, 379, 61-66.	1.0	14
77	Can we use precipitation isotope outputs of isotopic general circulation models to improve hydrological modeling in large mountainous catchments on the Tibetan Plateau?. Hydrology and Earth System Sciences, 2021, 25, 6151-6172.	4.9	14
78	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
79	Precipitation alters plastic film mulching impacts on soil respiration in an arid area of northwest China. Hydrology and Earth System Sciences, 2018, 22, 3075-3086.	4.9	13
80	Attribution of the land surface temperature response to land-use conversions from bare land. Global and Planetary Change, 2020, 193, 103268.	3.5	13
81	PODMT3DMS-Tool: proper orthogonal decomposition linked to the MT3DMS model for nitrate simulation in aquifers. Hydrogeology Journal, 2020, 28, 1125-1142.	2.1	13
82	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
83	Integration of <scp>Penman</scp> approach with complementary principle for evaporation research. Hydrological Processes, 2018, 32, 3051-3058.	2.6	11
84	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
85	Comparison of formulating apparent potential evaporation with pan measurements and Penman methods. Journal of Hydrology, 2021, 592, 125816.	5.4	10
86	Enabling policy environment for water, food and energy security. Irrigation and Drainage, 2021, 70, 392-409.	1.7	10
87	At which timescale does the complementary principle perform best in evaporation estimation?. Hydrology and Earth System Sciences, 2021, 25, 375-386.	4.9	10
88	Carbon budget for a plastic-film mulched and drip-irrigated cotton field in an oasis of Northwest China. Agricultural and Forest Meteorology, 2021, 306, 108447.	4.8	10
89	Insights from a joint analysis of Indian and Chinese monsoon rainfall data. Hydrology and Earth System Sciences, 2011, 15, 2709-2715.	4.9	9
90	Current status and recent trend of irrigation water use in China *. Irrigation and Drainage, 2020, 69, 25-35.	1.7	9

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91	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
92	Spatial Variability of Soil Moisture in a Forest Catchment: Temporal Trend and Contributors. Forests, 2016, 7, 154.	2.1	8
93	Understanding of Storm Runoff Generation in a Weathered, Fractured Granitoid Headwater Catchment in Northern China. Water (Switzerland), 2019, 11, 123.	2.7	8
94	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
95	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
96	Characteristics of soil water retention curve at macro-scale. Science in China Series D: Earth Sciences, 2009, 52, 2990-2996.	0.9	6
97	Comparison of Precipitation and Streamflow Correcting for Ensemble Streamflow Forecasts. Water (Switzerland), 2018, 10, 177.	2.7	6
98	Evaluation of the ECMWF System 4 climate forecasts for streamflow forecasting in the Upper Hanjiang River Basin. Hydrology Research, 2018, 49, 1864-1879.	2.7	6
99	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
100	Triple isotope variations of monthly tap water in China. Scientific Data, 2020, 7, 336.	5.3	6
101	Hydrological characteristics and changes in the Nu-Salween River basin revealed with model-based reconstructed data. Journal of Mountain Science, 2021, 18, 2982-3002.	2.0	6
102	Determination of the asymmetric parameter in complementary relations of evaporation in alpine grasslands of the Tibetan Plateau. Journal of Hydrology, 2022, 605, 127306.	5.4	6
103	Spatial averaging infiltration model for layered soil. Science in China Series D: Earth Sciences, 2009, 52, 1050-1058.	0.9	5
104	Ecohydrological Separation Hypothesis: Review and Prospect. Water (Switzerland), 2020, 12, 2077.	2.7	5
105	Nonsmooth Dynamic Behaviors Inherited from an Ecohydrological Model: Mutation, Bifurcation, and Chaos. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	4
106	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
107	Comment on â€œA Calibrationâ€Free Formulation of the Complementary Relationship of Evaporation for Continentalâ€Scale Hydrologyâ€• by J. Szilagyi et Âal.. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033403.	3.3	4
108	A multi-factor integrated method of calculation unit delineation for hydrological modeling in large mountainous basins. Journal of Hydrology, 2021, 597, 126180.	5.4	4

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109	A socio-hydrological framework for understanding conflict and cooperation with respect to transboundary rivers. Hydrology and Earth System Sciences, 2022, 26, 2131-2146.	4.9	4
110	Climate Leads to Reversed Latitudinal Changes in Chinese Flood Peak Timing. Earth's Future, 2022, 10, .	6.3	4
111	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
112	Improving satellite rainfall estimates over Tibetan plateau using in situ soil moisture observation and SMAP retrievals. , 2017, , .		3
113	Opening Configuration Design Effects on Pooled Stepped Chutes. Journal of Hydraulic Engineering, 2021, 147, 06021011.	1.5	2
114	Temporal and Spatial Signatures of Sediment Transport at the Watershed Scale: An Approach to Understand the Behavior of the Watershed. Tecnologia Y Ciencias Del Agua, 2019, 10, 18-45.	0.3	2
115	Improving Gpm Precipitation Data Over Yarlung Zangbo River Basin Using Smap Soil Moisture Retrievals. , 2018, , .		1
116	Prioritizing Design Parameters for Stepped Chutes and Shear Stress Distribution. Water (Switzerland), 2021, 13, 1155.	2.7	0