

# Guoqiang Tang

## List of Publications by Year in descending order

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72  
papers

3,241  
citations

147801

31  
h-index

149698

56  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2243  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of GPM Day-1 IMERG and TMPA Version-7 legacy products over Mainland China at multiple spatiotemporal scales. <i>Journal of Hydrology</i> , 2016, 533, 152-167.	5.4	425
2	Have satellite precipitation products improved over last two decades? A comprehensive comparison of GPM IMERG with nine satellite and reanalysis datasets. <i>Remote Sensing of Environment</i> , 2020, 240, 111697.	11.0	330
3	Statistical and Hydrological Comparisons between TRMM and GPM Level-3 Products over a Midlatitude Basin: Is Day-1 IMERG a Good Successor for TMPA 3B42V7?. <i>Journal of Hydrometeorology</i> , 2016, 17, 121-137.	1.9	206
4	Similarity and Error Intercomparison of the GPM and Its Predecessor-TRMM Multisatellite Precipitation Analysis Using the Best Available Hourly Gauge Network over the Tibetan Plateau. <i>Remote Sensing</i> , 2016, 8, 569.	4.0	129
5	Accounting for spatiotemporal errors of gauges: A critical step to evaluate gridded precipitation products. <i>Journal of Hydrology</i> , 2018, 559, 294-306.	5.4	112
6	Performance of Optimally Merged Multisatellite Precipitation Products Using the Dynamic Bayesian Model Averaging Scheme Over the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 814-834.	3.3	111
7	Cross-evaluation of ground-based, multi-satellite and reanalysis precipitation products: Applicability of the Triple Collocation method across Mainland China. <i>Journal of Hydrology</i> , 2018, 562, 71-83.	5.4	105
8	Statistical assessment and hydrological utility of the latest multi-satellite precipitation analysis IMERG in Ganjiang River basin. <i>Atmospheric Research</i> , 2017, 183, 212-223.	4.1	88
9	Multiscale Comparative Evaluation of the GPM IMERG v5 and TRMM 3B42 v7 Precipitation Products from 2015 to 2017 over a Climate Transition Area of China. <i>Remote Sensing</i> , 2018, 10, 944.	4.0	84
10	Assessing the potential of satellite-based precipitation estimates for flood frequency analysis in ungauged or poorly gauged tributaries of China's Yangtze River basin. <i>Journal of Hydrology</i> , 2017, 550, 478-496.	5.4	79
11	The Abuse of Popular Performance Metrics in Hydrologic Modeling. <i>Water Resources Research</i> , 2021, 57, e2020WR029001.	4.2	76
12	Global intercomparison and regional evaluation of GPM IMERG Version-03, Version-04 and its latest Version-05 precipitation products: Similarity, difference and improvements. <i>Journal of Hydrology</i> , 2018, 564, 342-356.	5.4	75
13	AIMERG: a new Asian precipitation dataset (0.1°/half-hourly, 2000-2015) by calibrating the GPM-era IMERG at a daily scale using APHRODITE. <i>Earth System Science Data</i> , 2020, 12, 1525-1544.	9.9	75
14	Comprehensive evaluation of Ensemble Multi-Satellite Precipitation Dataset using the Dynamic Bayesian Model Averaging scheme over the Tibetan plateau. <i>Journal of Hydrology</i> , 2018, 556, 634-644.	5.4	71
15	Documentation of multifactorial relationships between precipitation and topography of the Tibetan Plateau using spaceborne precipitation radars. <i>Remote Sensing of Environment</i> , 2018, 208, 82-96.	11.0	68
16	A cloud-based global flood disaster community cyber-infrastructure: Development and demonstration. <i>Environmental Modelling and Software</i> , 2014, 58, 86-94.	4.5	64
17	Exploring Deep Neural Networks to Retrieve Rain and Snow in High Latitudes Using Multisensor and Reanalysis Data. <i>Water Resources Research</i> , 2018, 54, 8253-8278.	4.2	59
18	Correcting GPM IMERG precipitation data over the Tianshan Mountains in China. <i>Journal of Hydrology</i> , 2019, 575, 1239-1252.	5.4	58

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19	Development of an NRCS curve number global dataset using the latest geospatial remote sensing data for worldwide hydrologic applications. <i>Remote Sensing Letters</i> , 2017, 8, 528-536.	1.4	45
20	Evaluation and correction of the TRMM 3B43V7 and GPM 3IMERGM satellite precipitation products by use of ground-based data over Xinjiang, China. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	44
21	Evaluation of High-Resolution Precipitation Estimates from Satellites during July 2012 Beijing Flood Event Using Dense Rain Gauge Observations. <i>PLoS ONE</i> , 2014, 9, e89681.	2.5	43
22	Similarities and differences between three coexisting spaceborne radars in global rainfall and snowfall estimation. <i>Water Resources Research</i> , 2017, 53, 3835-3853.	4.2	42
23	Hydrometeorological Analysis and Remote Sensing of Extremes: Was the July 2012 Beijing Flood Event Detectable and Predictable by Global Satellite Observing and Global Weather Modeling Systems?. <i>Journal of Hydrometeorology</i> , 2015, 16, 381-395.	1.9	40
24	Quantitative Evaluations and Error Source Analysis of Fengyun-2-Based and GPM-Based Precipitation Products over Mainland China in Summer, 2018. <i>Remote Sensing</i> , 2019, 11, 2992.	4.0	40
25	Application of the GPM-IMERG Products in Flash Flood Warning: A Case Study in Yunnan, China. <i>Remote Sensing</i> , 2020, 12, 1954.	4.0	39
26	Precipitation Merging Based on the Triple Collocation Method Across Mainland China. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3161-3176.	6.3	39
27	Similarities and Improvements of GPM Dual-Frequency Precipitation Radar (DPR) upon TRMM Precipitation Radar (PR) in Global Precipitation Rate Estimation, Type Classification and Vertical Profiling. <i>Remote Sensing</i> , 2017, 9, 1142.	4.0	37
28	Systematic Anomalies Over Inland Water Bodies of High Mountain Asia in TRMM Precipitation Estimates: No Longer a Problem for the GPM Era?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1762-1766.	3.1	36
29	Can Near-Real-Time Satellite Precipitation Products Capture Rainstorms and Guide Flood Warning for the 2016 Summer in South China?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 1208-1212.	3.1	35
30	SCDNA: a serially complete precipitation and temperature dataset for North America from 1979 to 2018. <i>Earth System Science Data</i> , 2020, 12, 2381-2409.	9.9	35
31	Cross-Examination of Similarity, Difference and Deficiency of Gauge, Radar and Satellite Precipitation Measuring Uncertainties for Extreme Events Using Conventional Metrics and Multiplicative Triple Collocation. <i>Remote Sensing</i> , 2020, 12, 1258.	4.0	33
32	Infrared Precipitation Estimation Using Convolutional Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8612-8625.	6.3	33
33	Assessment of Extremes in Global Precipitation Products: How Reliable Are They?. <i>Journal of Hydrometeorology</i> , 2020, 21, 2855-2873.	1.9	28
34	Global water cycle and remote sensing big data: overview, challenge, and opportunities. <i>Big Earth Data</i> , 2018, 2, 282-297.	4.4	25
35	Evaluation of multi-satellite precipitation products in Xinjiang, China. <i>International Journal of Remote Sensing</i> , 2018, 39, 7437-7462.	2.9	25
36	The Development of a Two-Step Merging and Downscaling Method for Satellite Precipitation Products. <i>Remote Sensing</i> , 2020, 12, 398.	4.0	24

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37	Downscaling Satellite and Reanalysis Precipitation Products Using Attention-Based Deep Convolutional Neural Nets. <i>Frontiers in Water</i> , 2020, 2, .	2.3	23
38	Evaluation of GPM IMERG and its constellations in extreme events over the conterminous united states. <i>Journal of Hydrology</i> , 2022, 606, 127357.	5.4	23
39	A cascading flash flood guidance system: development and application in Yunnan Province, China. <i>Natural Hazards</i> , 2016, 84, 2071-2093.	3.4	22
40	Two-decades of GPM IMERG early and final run products intercomparison: Similarity and difference in climatology, rates, and extremes. <i>Journal of Hydrology</i> , 2021, 594, 125975.	5.4	22
41	The potential and uncertainty of triple collocation in assessing satellite precipitation products in Central Asia. <i>Atmospheric Research</i> , 2021, 252, 105452.	4.1	22
42	EMDNA: an Ensemble Meteorological Dataset for North America. <i>Earth System Science Data</i> , 2021, 13, 3337-3362.	9.9	22
43	General overestimation of ERA5 precipitation in flow simulations for High Mountain Asia basins. <i>Environmental Research Communications</i> , 2021, 3, 121003.	2.3	21
44	Can Satellite Precipitation Products Estimate Probable Maximum Precipitation: A Comparative Investigation with Gauge Data in the Dadu River Basin. <i>Remote Sensing</i> , 2018, 10, 41.	4.0	20
45	An Improved Coupled Routing and Excess Storage (CREST) Distributed Hydrological Model and Its Verification in Ganjiang River Basin, China. <i>Water (Switzerland)</i> , 2017, 9, 904.	2.7	19
46	SC-Earth: A Station-Based Serially Complete Earth Dataset from 1950 to 2019. <i>Journal of Climate</i> , 2021, 34, 6493-6511.	3.2	19
47	Evaluation of IMERG and ERA5 Precipitation-Phase Partitioning on the Global Scale. <i>Water (Switzerland)</i> , 2022, 14, 1122.	2.7	16
48	Infrared precipitation estimation using convolutional neural network for FengYun satellites. <i>Journal of Hydrology</i> , 2021, 603, 127113.	5.4	15
49	Generation of an improved precipitation data set from multisource information over the Tibetan Plateau. <i>Journal of Hydrometeorology</i> , 2021, , .	1.9	14
50	Spatial Variability and Linkage Between Extreme Convections and Extreme Precipitation Revealed by 22-Year Space-Borne Precipitation Radar Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088437.	4.0	13
51	PrecipGAN: Merging Microwave and Infrared Data for Satellite Precipitation Estimation Using Generative Adversarial Network. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092032.	4.0	13
52	Downscaling of ERA-Interim Temperature in the Contiguous United States and Its Implications for Rain-Snow Partitioning. <i>Journal of Hydrometeorology</i> , 2018, 19, 1215-1233.	1.9	11
53	Characterization of the Systematic and Random Errors in Satellite Precipitation Using the Multiplicative Error Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5407-5416.	6.3	9
54	Evaluating applicability of multi-source precipitation datasets for runoff simulation of small watersheds: a case study in the United States. <i>European Journal of Remote Sensing</i> , 2021, 54, 372-382.	3.5	7

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55	Can GPM IMERG Capture Extreme Precipitation in North China Plain?. Remote Sensing, 2022, 14, 928.	4.0	7
56	Quantitative estimation of hourly precipitation in the Tianshan Mountains based on area-to-point kriging downscaling and satellite-gauge data merging. Journal of Mountain Science, 2022, 19, 58-72.	2.0	7
57	Detailed investigation of discrepancies in Köppen-Geiger climate classification using seven global gridded products. Journal of Hydrology, 2022, 612, 128121.	5.4	7
58	Climate Changes and Their Teleconnections With ENSO Over the Last 55 Years, 1961–2015, in Floods-Dominated Basin, Jiangxi Province, China. Earth and Space Science, 2020, 7, e2019EA001047.	2.6	6
59	The use of serially complete station data to improve the temporal continuity of gridded precipitation and temperature estimates. Journal of Hydrometeorology, 2021, , .	1.9	6
60	Remote Sensing Precipitation: Sensors, Retrievals, Validations, and Applications. Ecohydrology, 2018, , 1-23.	0.2	5
61	Remote Sensing Precipitation: Sensors, Retrievals, Validations, and Applications. Ecohydrology, 2019, , 107-128.	0.2	5
62	Development of a new rainfall-triggering index of flash flood warning—case study in Yunnan province, China. Journal of Flood Risk Management, 2021, 14, e12676.	3.3	5
63	A Morphology-Based Adaptively Spatio-Temporal Merging Algorithm for Optimally Combining Multisource Gridded Precipitation Products With Various Resolutions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	6.3	5
64	First Assessment of CyGNSS-Incorporated SMAP Sea Surface Salinity Retrieval Over Pan-Tropical Ocean. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12163-12173.	4.9	5
65	Combined Space and Ground Radars for Improving Quantitative Precipitation Estimations in the Eastern Downstream Region of the Tibetan Plateau. Part I: Variability in the Vertical Structure of Precipitation in ChuanYu Analyzed from Long-Term Spaceborne Observations by TRMM PR. Journal of Applied Meteorology and Climatology, 2017, 56, 2259-2274.	1.5	4
66	Error analysis of ensemble multi-satellite precipitation datasets over the Tibetan Plateau. , 2017, , .		1
67	An overview and outlook of global water remote sensing technology and applications. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2015, 45, 1013-1023.	0.5	1
68	Cross-Evaluation of Soil Moisture Based on the Triple Collocation Method and a Preliminary Application of Quality Control for Station Observations in China. Water (Switzerland), 2022, 14, 1054.	2.7	1
69	Cloud-Based Cyber-Infrastructure for Disaster Monitoring and Mitigation. , 2016, , 363-379.		0
70	From Tropical to Global Precipitation Measurement. , 2016, , 1-15.		0
71	Runoff simulation performance of multi-source precipitation products in small watersheds of different climatic regions in the USA. International Journal of Environment and Pollution, 2020, 67, 223.	0.2	0
72	Runoff simulation performance of multi-source precipitation products in small watersheds of different climatic regions in the USA. International Journal of Environment and Pollution, 2020, 67, 223.	0.2	0