Xiaogang He

List of Publications by Year in descending order

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233 papers	19,781 citations	16451 64 h-index	11939 134 g-index
245 all docs	245 docs citations	245 times ranked	14344 citing authors

#	Article	IF	Citations
1	The TRMM Multisatellite Precipitation Analysis (TMPA): Quasi-Global, Multiyear, Combined-Sensor Precipitation Estimates at Fine Scales. Journal of Hydrometeorology, 2007, 8, 38-55.	1.9	5,934
2	Precipitation Estimation from Remotely Sensed Imagery Using an Artificial Neural Network Cloud Classification System. Journal of Applied Meteorology and Climatology, 2004, 43, 1834-1853.	1.7	661
3	Evaluation of TRMM Multisatellite Precipitation Analysis (TMPA) and Its Utility in Hydrologic Prediction in the La Plata Basin. Journal of Hydrometeorology, 2008, 9, 622-640.	1.9	439
4	Evaluation of GPM Day-1 IMERG and TMPA Version-7 legacy products over Mainland China at multiple spatiotemporal scales. Journal of Hydrology, 2016, 533, 152-167.	5.4	425
5	Have satellite precipitation products improved over last two decades? A comprehensive comparison of GPM IMERG with nine satellite and reanalysis datasets. Remote Sensing of Environment, 2020, 240, 111697.	11.0	330
6	Drought and flood monitoring for a large karst plateau in Southwest China using extended GRACE data. Remote Sensing of Environment, 2014, 155, 145-160.	11.0	321
7	A global landslide catalog for hazard applications: method, results, and limitations. Natural Hazards, 2010, 52, 561-575.	3.4	320
8	Statistical and hydrological evaluation of TRMM-based Multi-satellite Precipitation Analysis over the Wangchu Basin of Bhutan: Are the latest satellite precipitation products 3B42V7 ready for use in ungauged basins?. Journal of Hydrology, 2013, 499, 91-99.	5.4	291
9	Vegetation Greening and Climate Change Promote Multidecadal Rises of Global Land Evapotranspiration. Scientific Reports, 2015, 5, 15956.	3.3	265
10	Hydrologic evaluation of Multisatellite Precipitation Analysis standard precipitation products in basins beyond its inclined latitude band: A case study in Laohahe basin, China. Water Resources Research, 2010, 46, .	4.2	234
11	Satellite Remote Sensing and Hydrologic Modeling for Flood Inundation Mapping in Lake Victoria Basin: Implications for Hydrologic Prediction in Ungauged Basins. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 85-95.	6.3	215
12	Use of satellite remote sensing data in the mapping of global landslide susceptibility. Natural Hazards, 2007, 43, 245-256.	3.4	210
13	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?. Journal of Hydrometeorology, 2016, 17, 121-137.	1.9	206
14	Global View Of Real-Time Trmm Multisatellite Precipitation Analysis: Implications For Its Successor Global Precipitation Measurement Mission. Bulletin of the American Meteorological Society, 2015, 96, 283-296.	3.3	205
15	Have GRACE satellites overestimated groundwater depletion in the Northwest India Aquifer?. Scientific Reports, 2016, 6, 24398.	3.3	202
16	Deriving scaling factors using a global hydrological model to restore GRACE total water storage changes for China's Yangtze River Basin. Remote Sensing of Environment, 2015, 168, 177-193.	11.0	201
17	The coupled routing and excess storage (CREST) distributed hydrological model. Hydrological Sciences Journal, 2011, 56, 84-98.	2.6	198
18	Early assessment of Integrated Multi-satellite Retrievals for Global Precipitation Measurement over China. Atmospheric Research, 2016, 176-177, 121-133.	4.1	186

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19	Evaluation of the ERA5 reanalysis precipitation dataset over Chinese Mainland. Journal of Hydrology, 2021, 595, 125660.	5.4	185
20	Evaluation of the potential of NASA multi-satellite precipitation analysis in global landslide hazard assessment. Geophysical Research Letters, 2006, 33, .	4.0	179
21	Similarity and difference of the two successive V6 and V7 TRMM multisatellite precipitation analysis performance over China. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,060.	3.3	177
22	Evaluation of Global Flood Detection Using Satellite-Based Rainfall and a Hydrologic Model. Journal of Hydrometeorology, 2012, 13, 1268-1284.	1.9	175
23	Improved modeling of snow and glacier melting by a progressive twoâ€stage calibration strategy with <scp>GRACE</scp> and multisource data: How snow and glacier meltwater contributes to the runoff of the <scp>U</scp>pper <scp>B</scp>rahmaputra <scp>R</scp>iver basin?. Water Resources Research, 2017, 53, 2431-2466.	4.2	163
24	Comparison of PERSIANN and V7 TRMM Multi-satellite Precipitation Analysis (TMPA) products with rain gauge data over Iran. International Journal of Remote Sensing, 2013, 34, 8156-8171.	2.9	158
25	Quantitative assessment of climate change and human impacts on longâ€term hydrologic response: a case study in a subâ€basin of the Yellow River, China. International Journal of Climatology, 2010, 30, 2130-2137.	3.5	155
26	Spatial downscaling of precipitation using adaptable random forests. Water Resources Research, 2016, 52, 8217-8237.	4.2	152
27	A digitized global flood inventory (1998â€“2008): compilation and preliminary results. Natural Hazards, 2010, 55, 405-422.	3.4	151
28	A first approach to global runoff simulation using satellite rainfall estimation. Water Resources Research, 2007, 43, .	4.2	150
29	Bayesian multimodel estimation of global terrestrial latent heat flux from eddy covariance, meteorological, and satellite observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4521-4545.	3.3	146
30	Evaluation of the real-time TRMM-based multi-satellite precipitation analysis for an operational flood prediction system in Nzoia Basin, Lake Victoria, Africa. Natural Hazards, 2009, 50, 109-123.	3.4	138
31	Flood and landslide applications of near real-time satellite rainfall products. Natural Hazards, 2007, 43, 285-294.	3.4	137
32	Assessment of evolving TRMMâ€based multisatellite realâ€time precipitation estimation methods and their impacts on hydrologic prediction in a high latitude basin. Journal of Geophysical Research, 2012, 117, .	3.3	135
33	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. Remote Sensing, 2016, 8, 569.	4.0	129
34	The FLASH Project: Improving the Tools for Flash Flood Monitoring and Prediction across the United States. Bulletin of the American Meteorological Society, 2017, 98, 361-372.	3.3	126
35	Multiregional Satellite Precipitation Products Evaluation over Complex Terrain. Journal of Hydrometeorology, 2016, 17, 1817-1836.	1.9	123
36	Evaluation of the successive V6 and V7 TRMM multisatellite precipitation analysis over the Continental United States. Water Resources Research, 2013, 49, 8174-8186.	4.2	122

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37	Prototyping an experimental early warning system for rainfall-induced landslides in Indonesia using satellite remote sensing and geospatial datasets. Landslides, 2010, 7, 317-324.	5.4	120
38	Accounting for spatiotemporal errors of gauges: A critical step to evaluate gridded precipitation products. Journal of Hydrology, 2018, 559, 294-306.	5.4	112
39	Performance of Optimally Merged Multisatellite Precipitation Products Using the Dynamic Bayesian Model Averaging Scheme Over the Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2018, 123, 814-834.	3.3	111
40	A lake data set for the Tibetan Plateau from the 1960s, 2005, and 2014. Scientific Data, 2016, 3, 160039.	5.3	100
41	Multiscale Hydrologic Applications of the Latest Satellite Precipitation Products in the Yangtze River Basin using a Distributed Hydrologic Model. Journal of Hydrometeorology, 2015, 16, 407-426.	1.9	99
42	Intensification of hydrological drought in California by human water management. Geophysical Research Letters, 2017, 44, 1777-1785.	4.0	99
43	A Global Drought and Flood Catalogue from 1950 to 2016. Bulletin of the American Meteorological Society, 2020, 101, E508-E535.	3.3	98
44	Analysis of flash flood disaster characteristics in China from 2011 to 2015. Natural Hazards, 2018, 90, 407-420.	3.4	92
45	Hydro-Climatological Drought Analyses and Projections Using Meteorological and Hydrological Drought Indices: A Case Study in Blue River Basin, Oklahoma. Water Resources Management, 2012, 26, 2761-2779.	3.9	88
46	VSDI: a visible and shortwave infrared drought index for monitoring soil and vegetation moisture based on optical remote sensing. International Journal of Remote Sensing, 2013, 34, 4585-4609.	2.9	88
47	Comprehensive evaluation of four high-resolution satellite precipitation products under diverse climate conditions in Iran. Hydrological Sciences Journal, 2016, 61, 420-440.	2.6	88
48	Statistical assessment and hydrological utility of the latest multi-satellite precipitation analysis IMERG in Ganjiang River basin. Atmospheric Research, 2017, 183, 212-223.	4.1	88
49	Advances in landslide nowcasting: evaluation of a global and regional modeling approach. Environmental Earth Sciences, 2012, 66, 1683-1696.	2.7	87
50	Performance evaluation of radar and satellite rainfalls for Typhoon Morakot over Taiwan: Are remote-sensing products ready for gauge denial scenario of extreme events?. Journal of Hydrology, 2013, 506, 4-13.	5.4	85
51	A Unified Flash Flood Database across the United States. Bulletin of the American Meteorological Society, 2013, 94, 799-805.	3.3	84
52	Lagged Compound Occurrence of Droughts and Pluvials Globally Over the Past Seven Decades. Geophysical Research Letters, 2020, 47, e2020GL087924.	4.0	84
53	Probabilistic precipitation rate estimates with groundâ€based radar networks. Water Resources Research, 2015, 51, 1422-1442.	4.2	82
54	Evaluation of Version-7 TRMM Multi-Satellite Precipitation Analysis Product during the Beijing Extreme Heavy Rainfall Event of 21 July 2012. Water (Switzerland), 2014, 6, 32-44.	2.7	79

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55	Water balanceâ€based actual evapotranspiration reconstruction from ground and satellite observations over the conterminous <scp>U</scp>nited <scp>S</scp>tates. Water Resources Research, 2015, 51, 6485-6499.	4.2	79
56	Precipitation Extremes Estimated by GPCP and TRMM: ENSO Relationships. Journal of Hydrometeorology, 2007, 8, 678-689.	1.9	78
57	Mapping Flash Flood Severity in the United States. Journal of Hydrometeorology, 2017, 18, 397-411.	1.9	78
58	Susceptibility evaluation and mapping of Chinaâ€™s landslides based on multi-source data. Natural Hazards, 2013, 69, 1477-1495.	3.4	76
59	Predicting global landslide spatiotemporal distribution: Integrating landslide susceptibility zoning techniques and real-time satellite rainfall estimates. International Journal of Sediment Research, 2008, 23, 249-257.	3.5	75
60	Evaluation of TRIGRS (transient rainfall infiltration and grid-based regional slope-stability analysis)â€™s predictive skill for hurricane-triggered landslides: a case study in Macon County, North Carolina. Natural Hazards, 2011, 58, 325-339.	3.4	75
61	Global intercomparison and regional evaluation of GPM IMERG Version-03, Version-04 and its latest Version-05 precipitation products: Similarity, difference and improvements. Journal of Hydrology, 2018, 564, 342-356.	5.4	75
62	A comprehensive data set of lake surface water temperature over the Tibetan Plateau derived from MODIS LST products 2001â€“2015. Scientific Data, 2017, 4, 170095.	5.3	71
63	Comprehensive evaluation of Ensemble Multi-Satellite Precipitation Dataset using the Dynamic Bayesian Model Averaging scheme over the Tibetan plateau. Journal of Hydrology, 2018, 556, 634-644.	5.4	71
64	Evaluation of a satellite-based global flood monitoring system. International Journal of Remote Sensing, 2010, 31, 3763-3782.	2.9	68
65	Documentation of multifactorial relationships between precipitation and topography of the Tibetan Plateau using spaceborne precipitation radars. Remote Sensing of Environment, 2018, 208, 82-96.	11.0	68
66	Evaluation of Tools Used for Monitoring and Forecasting Flash Floods in the United States. Weather and Forecasting, 2012, 27, 158-173.	1.4	67
67	CONUS-Wide Evaluation of National Weather Service Flash Flood Guidance Products. Weather and Forecasting, 2014, 29, 377-392.	1.4	66
68	Comparison analysis of six purely satellite-derived global precipitation estimates. Journal of Hydrology, 2020, 581, 124376.	5.4	65
69	Integrated approaches to understanding and reducing drought impact on food security across scales. Current Opinion in Environmental Sustainability, 2019, 40, 43-54.	6.3	63
70	Contrasting Influences of Human Activities on Hydrological Drought Regimes Over China Based on Highâ€Resolution Simulations. Water Resources Research, 2020, 56, e2019WR025843.	4.2	62
71	Uncertainty analysis of five satellite-based precipitation products and evaluation of three optimally merged multi-algorithm products over the Tibetan Plateau. International Journal of Remote Sensing, 2014, 35, 6843-6858.	2.9	60
72	Quantitative assessment of climate and human impacts on surface water resources in a typical semiâ€arid watershed in the middle reaches of the Yellow River from 1985 to 2006. International Journal of Climatology, 2015, 35, 97-113.	3.5	59

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73	Exploring Deep Neural Networks to Retrieve Rain and Snow in High Latitudes Using Multisensor and Reanalysis Data. Water Resources Research, 2018, 54, 8253-8278.	4.2	59
74	Intercomparison of Rainfall Estimates from Radar, Satellite, Gauge, and Combinations for a Season of Record Rainfall. Journal of Applied Meteorology and Climatology, 2010, 49, 437-452.	1.5	57
75	Error-Component Analysis of TRMM-Based Multi-Satellite Precipitation Estimates over Mainland China. Remote Sensing, 2016, 8, 440.	4.0	55
76	Water security implications of coal-fired power plants financed through China's Belt and Road Initiative. Energy Policy, 2019, 132, 1101-1109.	8.8	53
77	Assessment of shallow landslides from Hurricane Mitch in central America using a physically based model. Environmental Earth Sciences, 2012, 66, 1697-1705.	2.7	48
78	First evaluation of the climatological calibration algorithm in the realâ€time TMPA precipitation estimates over two basins at high and low latitudes. Water Resources Research, 2013, 49, 2461-2472.	4.2	47
79	New Multisite Cascading Calibration Approach for Hydrological Models: Case Study in the Red River Basin Using the VIC Model. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	1.9	47
80	Responses of land evapotranspiration to Earthâ€™s greening in CMIP5 Earth System Models. Environmental Research Letters, 2016, 11, 104006.	5.2	46
81	Development of a coupled hydrological-geotechnical framework for rainfall-induced landslides prediction. Journal of Hydrology, 2016, 543, 395-405.	5.4	46
82	Future increases in irrigation water requirement challenge the water-food nexus in the northeast farming region of China. Agricultural Water Management, 2019, 213, 594-604.	5.6	46
83	Development of an NRCS curve number global dataset using the latest geospatial remote sensing data for worldwide hydrologic applications. Remote Sensing Letters, 2017, 8, 528-536.	1.4	45
84	In Quest of Calibration Density and Consistency in Hydrologic Modeling: Distributed Parameter Calibration against Streamflow Characteristics. Water Resources Research, 2019, 55, 7784-7803.	4.2	44
85	Monitoring Urban Greenness Dynamics Using Multiple Endmember Spectral Mixture Analysis. PLoS ONE, 2014, 9, e112202.	2.5	43
86	Evaluation of High-Resolution Precipitation Estimates from Satellites during July 2012 Beijing Flood Event Using Dense Rain Gauge Observations. PLoS ONE, 2014, 9, e89681.	2.5	43
87	Similarities and differences between three coexisting spaceborne radars in global rainfall and snowfall estimation. Water Resources Research, 2017, 53, 3835-3853.	4.2	42
88	Revegetation Does Not Decrease Water Yield in the Loess Plateau of China. Geophysical Research Letters, 2022, 49, .	4.0	42
89	A Methodology to Monitor Urban Expansion and Green Space Change Using a Time Series of Multi-Sensor SPOT and Sentinel-2A Images. Remote Sensing, 2019, 11, 1230.	4.0	41
90	Improvement of Multi-Satellite Real-Time Precipitation Products for Ensemble Streamflow Simulation in a Middle Latitude Basin in South China. Water Resources Management, 2014, 28, 2259-2278.	3.9	40

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91	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?. Journal of Hydrometeorology, 2015, 16, 381-395.	1.9	40
92	Solar and wind energy enhances drought resilience and groundwater sustainability. Nature Communications, 2019, 10, 4893.	12.8	39
93	Projected Seasonal Changes in Large-Scale Global Precipitation and Temperature Extremes Based on the CMIP5 Ensemble. Journal of Climate, 2020, 33, 5651-5671.	3.2	39
94	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. Remote Sensing, 2017, 9, 1142.	4.0	37
95	Evaluating the Performance of Merged Multi-Satellite Precipitation Products Over a Complex Terrain. Water Resources Management, 2015, 29, 4885-4901.	3.9	36
96	Systematic Anomalies Over Inland Water Bodies of High Mountain Asia in TRMM Precipitation Estimates: No Longer a Problem for the GPM Era?. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1762-1766.	3.1	36
97	Can Near-Real-Time Satellite Precipitation Products Capture Rainstorms and Guide Flood Warning for the 2016 Summer in South China?. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1208-1212.	3.1	35
98	Computer Aided Numerical Methods for Hydrological Model Calibration: An Overview and Recent Development. Archives of Computational Methods in Engineering, 2019, 26, 35-59.	10.2	35
99	A Framework to Evaluate Community Resilience to Urban Floods: A Case Study in Three Communities. Sustainability, 2020, 12, 1521.	3.2	35
100	Historical Water Storage Changes Over China's Loess Plateau. Water Resources Research, 2021, 57, e2020WR028661.	4.2	35
101	Observed radiative cooling over the Tibetan Plateau for the past three decades driven by snow coverâ€induced surface albedo anomaly. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6170-6185.	3.3	34
102	An updated moving window algorithm for hourly-scale satellite precipitation downscaling: A case study in the Southeast Coast of China. Journal of Hydrology, 2020, 581, 124378.	5.4	34
103	Analyzing projected changes and trends of temperature and precipitation in the southern USA from 16 downscaled global climate models. Theoretical and Applied Climatology, 2012, 109, 345-360.	2.8	33
104	Spatio-temporal analysis and simulation on shallow rainfall-induced landslides in China using landslide susceptibility dynamics and rainfall I-D thresholds. Science China Earth Sciences, 2017, 60, 720-732.	5.2	33
105	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. Remote Sensing, 2020, 12, 1258.	4.0	33
106	Mudslideâ€caused ecosystem degradation following Wenchuan earthquake 2008. Geophysical Research Letters, 2009, 36, .	4.0	32
107	Model test study on monitoring dynamic process of slope failure through spatial sensor network. Environmental Earth Sciences, 2015, 74, 3315-3332.	2.7	31
108	Study on Applicability of Conceptual Hydrological Models for Flood Forecasting in Humid, Semi-Humid Semi-Arid and Arid Basins in China. Water (Switzerland), 2017, 9, 719.	2.7	31

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109	An interpretable self-adaptive deep neural network for estimating daily spatially-continuous PM2.5 concentrations across China. Science of the Total Environment, 2021, 768, 144724.	8.0	30
110	Impacts of Polarimetric Radar Observations on Hydrologic Simulation. Journal of Hydrometeorology, 2010, 11, 781-796.	1.9	29
111	Evaluation of latest TMPA and CMORPH precipitation products with independent rain gauge observation networks over high-latitude and low-latitude basins in China. Chinese Geographical Science, 2016, 26, 439-455.	3.0	29
112	Error analysis of multi-satellite precipitation estimates with an independent raingauge observation network over a medium-sized humid basin. Hydrological Sciences Journal, 0, , 1-18.	2.6	29
113	Probabilistic precipitation rate estimates with spaceâ€based infrared sensors. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 191-205.	2.7	29
114	Spatialâ€“Temporal Changes of Water Resources in a Typical Semiarid Basin of North China over the Past 50 Years and Assessment of Possible Natural and Socioeconomic Causes. Journal of Hydrometeorology, 2013, 14, 1009-1034.	1.9	28
115	Characterizing Spatiotemporal Variations of Hourly Rainfall by Gauge and Radar in the Mountainous Three Gorges Region. Journal of Applied Meteorology and Climatology, 2014, 53, 873-889.	1.5	28
116	A systematic assessment and reduction of parametric uncertainties for a distributed hydrological model. Journal of Hydrology, 2018, 564, 697-711.	5.4	28
117	Climate Change and Hydrological Response in the Trans-State Oologah Lake Watershedâ€“Evaluating Dynamically Downscaled NARCCAP and Statistically Downscaled CMIP3 Simulations with VIC Model. Water Resources Management, 2014, 28, 3291-3305.	3.9	27
118	Acceleration of western Arctic sea ice loss linked to the Pacific North American pattern. Nature Communications, 2021, 12, 1519.	12.8	27
119	Empirical conversion of the vertical profile of reflectivity from Kuâ€band to Sâ€band frequency. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1814-1825.	3.3	26
120	Variational merged of hourly gaugeâ€satellite precipitation in China: Preliminary results. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9897-9915.	3.3	26
121	Forecasting the Hydroclimatic Signature of the 2015/16 El NiÃ±o Event on the Western United States. Journal of Hydrometeorology, 2017, 18, 177-186.	1.9	26
122	A comprehensive flash flood defense system in China: overview, achievements, and outlook. Natural Hazards, 2018, 92, 727-740.	3.4	26
123	Investigation of SMAP Activeâ€“Passive Downscaling Algorithms Using Combined Sentinel-1 SAR and SMAP Radiometer Data. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4906-4918.	6.3	26
124	Hydrological Variability and Uncertainty of Lower Missouri River Basin Under Changing Climate. Journal of the American Water Resources Association, 2014, 50, 246-260.	2.4	25
125	Projected changes in mean and interannual variability of surface water over continental China. Science China Earth Sciences, 2015, 58, 739-754.	5.2	25
126	Investigation of potential sea level rise impact on the Nile Delta, Egypt using digital elevation models. Environmental Monitoring and Assessment, 2015, 187, 649.	2.7	25

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127	Using BDS SNR Observations to Measure Near-Surface Soil Moisture Fluctuations: Results From Low Vegetated Surface. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1308-1312.	3.1	25
128	Global water cycle and remote sensing big data: overview, challenge, and opportunities. Big Earth Data, 2018, 2, 282-297.	4.4	25
129	Global Reach-Level 3-Hourly River Flood Reanalysis (1980â€“2019). Bulletin of the American Meteorological Society, 2021, 102, E2086-E2105.	3.3	25
130	Bare Surface Soil Moisture Estimation Using Double-Angle and Dual-Polarization L-Band Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3931-3942.	6.3	24
131	Evaluating Four Multisatellite Precipitation Estimates over the Diaoyu Islands during Typhoon Seasons. Journal of Hydrometeorology, 2016, 17, 1623-1641.	1.9	24
132	Climate change leads to a doubling of turbidity in a rapidly expanding Tibetan lake. Science of the Total Environment, 2019, 688, 952-959.	8.0	24
133	Climate-informed hydrologic modeling and policy typology to guide managed aquifer recharge. Science Advances, 2021, 7, .	10.3	24
134	Identification and Assessment of Potential Water Quality Impact Factors for Drinking-Water Reservoirs. International Journal of Environmental Research and Public Health, 2014, 11, 6069-6084.	2.6	23
135	Investigation of inducements and defenses of flash floods and urban waterlogging in Fuzhou, China, from 1950 to 2010. Natural Hazards, 2018, 91, 803-818.	3.4	23
136	Can Remote Sensing Technologies Capture the Extreme Precipitation Event and Its Cascading Hydrological Response? A Case Study of Hurricane Harvey Using EF5 Modeling Framework. Remote Sensing, 2020, 12, 445.	4.0	23
137	The Diurnal Cycle of Precipitation in Regional Spectral Model Simulations over West Africa: Sensitivities to Resolution and Cumulus Schemes. Weather and Forecasting, 2015, 30, 424-445.	1.4	22
138	A cascading flash flood guidance system: development and application in Yunnan Province, China. Natural Hazards, 2016, 84, 2071-2093.	3.4	22
139	Two-decades of GPM IMERG early and final run products intercomparison: Similarity and difference in climatology, rates, and extremes. Journal of Hydrology, 2021, 594, 125975.	5.4	22
140	CREST-iMAP v1.0: A fully coupled hydrologic-hydraulic modeling framework dedicated to flood inundation mapping and prediction. Environmental Modelling and Software, 2021, 141, 105051.	4.5	22
141	Using hydrologic and hydraulically derived geometric parameters of perennial rivers to determine minimum water requirements of ecological habitats (case study: Mazandaran Sea Basin-Iran). Hydrological Processes, 2011, 25, 3490-3498.	2.6	21
142	Evaluation of the visible and shortwave infrared drought index in China. International Journal of Disaster Risk Science, 2013, 4, 68-76.	2.9	21
143	Climatological Drought Analyses and Projection Using SPI and PDSI: Case Study of the Arkansas Red River Basin. Journal of Hydrologic Engineering - ASCE, 2013, 18, 809-816.	1.9	20
144	An Extension of the Alpha Approximation Method for Soil Moisture Estimation Using Time-Series SAR Data Over Bare Soil Surfaces. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1328-1332.	3.1	20

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145	Can Satellite Precipitation Products Estimate Probable Maximum Precipitation: A Comparative Investigation with Gauge Data in the Dadu River Basin. Remote Sensing, 2018, 10, 41.	4.0	20
146	Heatwave Trends and the Population Exposure Over China in the 21st Century as Well as Under 1.5 Â°C and 2.0 Â°C Global Warmer Future Scenarios. Sustainability, 2019, 11, 3318.	3.2	19
147	Annual precipitation and daily extreme precipitation distribution: possible trends from 1960 to 2010 in urban areas of China. Geomatics, Natural Hazards and Risk, 2019, 10, 1694-1711.	4.3	19
148	The Optimal Multimodel Ensemble of Bias-Corrected CMIP5 Climate Models over China. Journal of Hydrometeorology, 2020, 21, 845-863.	1.9	19
149	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033539.	3.3	19
150	A novel multiple flow direction algorithm for computing the topographic wetness index. Hydrology Research, 2012, 43, 135-145.	2.7	18
151	Fast hydrological model calibration based on the heterogeneous parallel computing accelerated shuffled complex evolution method. Engineering Optimization, 2018, 50, 106-119.	2.6	18
152	Study on the Applicability of the Hargreaves Potential Evapotranspiration Estimation Method in CREST Distributed Hydrological Model (Version 3.0) Applications. Water (Switzerland), 2018, 10, 1882.	2.7	18
153	Characterizing the Flash Flooding Risks from 2011 to 2016 over China. Water (Switzerland), 2018, 10, 704.	2.7	18
154	Effects of 4D-Var Data Assimilation Using Remote Sensing Precipitation Products in a WRF Model over the Complex Terrain of an Arid Region River Basin. Remote Sensing, 2017, 9, 963.	4.0	17
155	A Copula-Based Multivariate Probability Analysis for Flash Flood Risk under the Compound Effect of Soil Moisture and Rainfall. Water Resources Management, 2021, 35, 83-98.	3.9	17
156	A hybrid framework for forecasting monthly reservoir inflow based on machine learning techniques with dynamic climate forecasts, satellite-based data, and climate phenomenon information. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2353-2375.	4.0	17
157	A comparative study of extensive machine learning models for predicting longâ€term monthly rainfall with an ensemble of climatic and meteorological predictors. Hydrological Processes, 2021, 35, e14424.	2.6	17
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