Di Long

List of Publications by Year
in descending order

97 papers	9,089 citations	34105 52 h-index	39675 94 g-index
106 all docs	106 docs citations	106 times ranked	6945 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. Journal of Hydrology, 2016, 533, 152-167.	5.4	425
2	Uncertainty in evapotranspiration from land surface modeling, remote sensing, and GRACE satellites. Water Resources Research, 2014, 50, 1131-1151.	4.2	394
3	Global models underestimate large decadal declining and rising water storage trends relative to GRACE satellite data. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1080-E1089.	7.1	376
4	Quantifying the impacts of climate change and ecological restoration on streamflow changes based on a <scp>B</scp>udyko hydrological model in <scp>C</scp>hina's <scp>L</scp>oess <scp>P</scp>lateau. Water Resources Research, 2015, 51, 6500-6519.	4.2	370
5	Global evaluation of new <scp>GRACE</scp> mascon products for hydrologic applications. Water Resources Research, 2016, 52, 9412-9429.	4.2	344
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	GRACE satellite monitoring of large depletion in water storage in response to the 2011 drought in Texas. Geophysical Research Letters, 2013, 40, 3395-3401.	4.0	315
8	South-to-North Water Diversion stabilizing Beijingâ€™s groundwater levels. Nature Communications, 2020, 11, 3665.	12.8	254
9	Global GRACE Data Assimilation for Groundwater and Drought Monitoring: Advances and Challenges. Water Resources Research, 2019, 55, 7564-7586.	4.2	229
10	Contrasting responses of water use efficiency to drought across global terrestrial ecosystems. Scientific Reports, 2016, 6, 23284.	3.3	227
11	Global analysis of spatiotemporal variability in merged total water storage changes using multiple GRACE products and global hydrological models. Remote Sensing of Environment, 2017, 192, 198-216.	11.0	223
12	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
13	Have GRACE satellites overestimated groundwater depletion in the Northwest India Aquifer?. Scientific Reports, 2016, 6, 24398.	3.3	202
14	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
15	A Two-source Trapezoid Model for Evapotranspiration (TTME) from satellite imagery. Remote Sensing of Environment, 2012, 121, 370-388.	11.0	200
16	Global analysis of approaches for deriving total water storage changes from GRACE satellites. Water Resources Research, 2015, 51, 2574-2594.	4.2	179
17	Analysis of spatial and temporal patterns of net primary production and their climate controls in China from 1982 to 2010. Agricultural and Forest Meteorology, 2015, 204, 22-36.	4.8	173
18	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

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19	Reconstruction of GRACE Data on Changes in Total Water Storage Over the Global Land Surface and 60 Basins. Water Resources Research, 2020, 56, e2019WR026250.	4.2	138
20	Observed changes in flow regimes in the Mekong River basin. Journal of Hydrology, 2017, 551, 217-232.	5.4	135
21	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
22	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
23	GRACE satellite observed hydrological controls on interannual and seasonal variability in surface greenness over mainland Australia. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 2245-2260.	3.0	118
24	Generation of spatially complete and daily continuous surface soil moisture of high spatial resolution. Remote Sensing of Environment, 2019, 233, 111364.	11.0	116
25	Accounting for spatiotemporal errors of gauges: A critical step to evaluate gridded precipitation products. Journal of Hydrology, 2018, 559, 294-306.	5.4	112
26	High-temporal-resolution water level and storage change data sets for lakes on the Tibetan Plateau during 2000â€"2017 using multiple altimetric missions and Landsat-derived lake shoreline positions. Earth System Science Data, 2019, 11, 1603-1627.	9.9	112
27	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
28	Impacts of climate change and human activities on the flow regime of the dammed Lancang River in Southwest China. Journal of Hydrology, 2019, 570, 96-105.	5.4	111
29	Improved understanding of snowmelt runoff from the headwaters of China's Yangtze River using remotely sensed snow products and hydrological modeling. Remote Sensing of Environment, 2019, 224, 44-59.	11.0	110
30	Impacts of future land cover and climate changes on runoff in the mostly afforested river basin in North China. Journal of Hydrology, 2019, 570, 201-219.	5.4	104
31	Discharge estimation in high-mountain regions with improved methods using multisource remote sensing: A case study of the Upper Brahmaputra River. Remote Sensing of Environment, 2018, 219, 115-134.	11.0	101
32	A lake data set for the Tibetan Plateau from the 1960s, 2005, and 2014. Scientific Data, 2016, 3, 160039.	5.3	100
33	Generating surface soil moisture at 30Âm spatial resolution using both data fusion and machine learning toward better water resources management at the field scale. Remote Sensing of Environment, 2021, 255, 112301.	11.0	98
34	Comparison of three dualâ€source remote sensing evapotranspiration models during the MUSOEXEâ€12 campaign: Revisit of model physics. Water Resources Research, 2015, 51, 3145-3165.	4.2	97
35	How sensitive is SEBAL to changes in input variables, domain size and satellite sensor?. Journal of Geophysical Research, 2011, 116, .	3.3	92
36	A two-step framework for reconstructing remotely sensed land surface temperatures contaminated by cloud. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 30-45.	11.1	90

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37	Assessing the impact of endâ€member selection on the accuracy of satelliteâ€based spatial variability models for actual evapotranspiration estimation. Water Resources Research, 2013, 49, 2601-2618.	4.2	88
38	Evapotranspiration Estimation for Tibetan Plateau Headwaters Using Conjoint Terrestrial and Atmospheric Water Balances and Multisource Remote Sensing. Water Resources Research, 2019, 55, 8608-8630.	4.2	87
39	Multi-scale validation of GLEAM evapotranspiration products over China via ChinaFLUX ET measurements. International Journal of Remote Sensing, 2017, 38, 5688-5709.	2.9	85
40	A modified surface energy balance algorithm for land (Mâ€SEBAL) based on a trapezoidal framework. Water Resources Research, 2012, 48, .	4.2	84
41	Hydrologic implications of <scp>GRACE</scp> satellite data in the <scp>C</scp>olorado <scp>R</scp>iver <scp>B</scp>asin. Water Resources Research, 2015, 51, 9891-9903.	4.2	79
42	Assessing the potential of satellite-based precipitation estimates for flood frequency analysis in ungauged or poorly gauged tributaries of Chinaâ€™s Yangtze River basin. Journal of Hydrology, 2017, 550, 478-496.	5.4	79
43	Remote estimation of terrestrial evapotranspiration without using meteorological data. Geophysical Research Letters, 2013, 40, 3026-3030.	4.0	77
44	Validation and reconstruction of FY-3B/MWRI soil moisture using an artificial neural network based on reconstructed MODIS optical products over the Tibetan Plateau. Journal of Hydrology, 2016, 543, 242-254.	5.4	75
45	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
46	An improved approach to monitoring Brahmaputra River water levels using retracked altimetry data. Remote Sensing of Environment, 2018, 211, 112-128.	11.0	69
47	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
48	Estimation of daily average net radiation from MODIS data and DEM over the Baiyangdian watershed in North China for clear sky days. Journal of Hydrology, 2010, 388, 217-233.	5.4	67
49	Characterizing interactions between surface water and groundwater in the Jialu River basin using major ion chemistry and stable isotopes. Hydrology and Earth System Sciences, 2012, 16, 4265-4277.	4.9	60
50	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
51	Impacts of varying agricultural intensification on crop yield and groundwater resources: comparison of the North China Plain and US High Plains. Environmental Research Letters, 2015, 10, 044013.	5.2	58
52	Developing a composite daily snow cover extent record over the Tibetan Plateau from 1981 to 2016 using multisource data. Remote Sensing of Environment, 2018, 215, 284-299.	11.0	58
53	Intercomparison of remote sensingâ€based models for estimation of evapotranspiration and accuracy assessment based on SWAT. Hydrological Processes, 2008, 22, 4850-4869.	2.6	56
54	Estimation of daily actual evapotranspiration from remotely sensed data under complex terrain over the upper Chao river basin in North China. International Journal of Remote Sensing, 2008, 29, 3295-3315.	2.9	54

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55	Deriving theoretical boundaries to address scale dependencies of triangle models for evapotranspiration estimation. Journal of Geophysical Research, 2012, 117, .	3.3	51
56	Estimation of Surface Soil Moisture from Thermal Infrared Remote Sensing Using an Improved Trapezoid Method. Remote Sensing, 2015, 7, 8250-8270.	4.0	50
57	An improvement in accuracy and spatiotemporal continuity of the MODIS precipitable water vapor product based on a data fusion approach. Remote Sensing of Environment, 2020, 248, 111966.	11.0	49
58	Rapid glacier mass loss in the Southeastern Tibetan Plateau since the year 2000 from satellite observations. Remote Sensing of Environment, 2022, 270, 112853.	11.0	47
59	Integration of the GG model with SEBAL to produce time series of evapotranspiration of high spatial resolution at watershed scales. Journal of Geophysical Research, 2010, 115, .	3.3	45
60	Statistical analysis of the relationship between spring soil moisture and summer precipitation in East China. International Journal of Climatology, 2014, 34, 1511-1523.	3.5	45
61	Similarities and differences between three coexisting spaceborne radars in global rainfall and snowfall estimation. Water Resources Research, 2017, 53, 3835-3853.	4.2	42
62	Reconstructing annual groundwater storage changes in a large-scale irrigation region using GRACE data and Budyko model. Journal of Hydrology, 2017, 551, 397-406.	5.4	40
63	Daily Continuous River Discharge Estimation for Ungauged Basins Using a Hydrologic Model Calibrated by Satellite Altimetry: Implications for the <scp>SWOT</scp> Mission. Water Resources Research, 2020, 56, e2020WR027309.	4.2	39
64	A decadal (2008â€"2017) daily evapotranspiration data set of 1Âkm spatial resolution and spatial completeness across the North China Plain using TSEB and data fusion. Remote Sensing of Environment, 2021, 262, 112519.	11.0	39
65	Estimation of Surface Soil Moisture With Downscaled Land Surface Temperatures Using a Data Fusion Approach for Heterogeneous Agricultural Land. Water Resources Research, 2019, 55, 1105-1128.	4.2	37
66	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
67	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
68	Improving Reservoir Outflow Estimation for Ungauged Basins Using Satellite Observations and a Hydrological Model. Water Resources Research, 2020, 56, e2020WR027590.	4.2	34
69	Human Intervention Will Stabilize Groundwater Storage Across the North China Plain. Water Resources Research, 2022, 58, .	4.2	34
70	Validation and application of water levels derived from Sentinel-3A for the Brahmaputra River. Science China Technological Sciences, 2019, 62, 1760-1772.	4.0	31
71	Effects of climate and irrigation on GRACE-based estimates of water storage changes in major US aquifers. Environmental Research Letters, 2021, 16, 094009.	5.2	31
72	The season for large fires in Southern California is projected to lengthen in a changing climate. Communications Earth & Environment, 2022, 3, .	6.8	31

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73	Monitoring surface water quality using social media in the context of citizen science. Hydrology and Earth System Sciences, 2017, 21, 949-961.	4.9	25
74	An Entropy-Based Multispectral Image Classification Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 5225-5238.	6.3	22
75	A cascading flash flood guidance system: development and application in Yunnan Province, China. Natural Hazards, 2016, 84, 2071-2093.	3.4	22
76	Spatio-temporal variations of Î´2H and Î´18O in precipitation and shallow groundwater in the Hilly Loess Region of the Loess Plateau, China. Environmental Earth Sciences, 2011, 63, 1105-1118.	2.7	20
77	Toward the Use of the MODIS ET Product to Estimate Terrestrial GPP for Nonforest Ecosystems. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1624-1628.	3.1	20
78	The state and fate of lake ice thickness in the Northern Hemisphere. Science Bulletin, 2022, 67, 537-546.	9.0	19
79	Hydrologic utility of satellite precipitation products in flood prediction: A meta-data analysis and lessons learnt. Journal of Hydrology, 2022, 612, 128103.	5.4	17
80	Estimating Spatially Explicit Irrigation Water Use Based on Remotely Sensed Evapotranspiration and Modeled Root Zone Soil Moisture. Water Resources Research, 2021, 57, .	4.2	16
81	Climatology of snow phenology over the Tibetan plateau for the period 2001â€“2014 using multisource data. International Journal of Climatology, 2018, 38, 2718-2729.	3.5	15
82	An improved modeling of precipitation phase and snow in the Lancang River Basin in Southwest China. Science China Technological Sciences, 2021, 64, 1513-1527.	4.0	15
83	Meta-Analysis in Using Satellite Precipitation Products for Drought Monitoring: Lessons Learnt and Way Forward. Remote Sensing, 2021, 13, 4353.	4.0	15
84	Generation of an improved precipitation data set from multisource information over the Tibetan Plateau. Journal of Hydrometeorology, 2021, , .	1.9	14
85	Downscaling of ERA-Interim Temperature in the Contiguous United States and Its Implications for Rainâ€“Snow Partitioning. Journal of Hydrometeorology, 2018, 19, 1215-1233.	1.9	11
86	A dual state-parameter updating scheme using the particle filter and high-spatial-resolution remotely sensed snow depths to improve snow simulation. Journal of Hydrology, 2021, 594, 125979.	5.4	11
87	Initial results of Chinaâ€™s GNSS-R airborne campaign: soil moisture retrievals. Science Bulletin, 2015, 60, 964-971.	9.0	10
88	High-resolution satellite images combined with hydrological modeling derive river discharge for headwaters: A step toward discharge estimation in ungauged basins. Remote Sensing of Environment, 2022, 277, 113030.	11.0	9
89	Are Temperature and Precipitation Extremes Increasing over the U.S. High Plains?. Earth Interactions, 2012, 16, 1-20.	1.5	8
90	Correction to â€œDeriving theoretical boundaries to address scale dependencies of triangle models for evapotranspiration estimationâ€. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	7

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91	Development of In Situ Experiments for Evaluation of Anisotropic Reflectance Effect on Spectral Mixture Analysis for Vegetation Cover. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 636-640.	3.1	7
92	How Chinaâ€™s Fengyun satellite precipitation product compares with other mainstream satellite precipitation products. Journal of Hydrometeorology, 2022, , .	1.9	4
93	Development of GIS-based FFPI for China's flash flood forecasting. , 2015, , .		2
94	Seasonal to Interannual Variability of Satellite-Based Precipitation Estimates in the Pacific Ocean Associated with ENSO from 1998 to 2014. Remote Sensing, 2016, 8, 833.	4.0	2
95	Evaluation of the FY-3B/MWRI soil moisture product on the central Tibetan Plateau. , 2016, , .		2
96	Coupled patterns between the surface chlorophyll-a and the physical factors in the Pacific Ocean. , 2016, , .		0
97	From Tropical to Global Precipitation Measurement. , 2016, , 1-15.		0