Jian Peng

List of Publications by Year
in descending order

54 papers	2,401 citations	279798 23 h-index	214800 47 g-index
58 all docs	58 docs citations	58 times ranked	2162 citing authors

#	Article	IF	Citations
1	Remote sensing of soil moisture. , 2023, , 618-630.		2
2	A Method for Downscaling Satellite Soil Moisture Based on Land Surface Temperature and Net Surface Shortwave Radiation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
3	Motion Compensation/Autofocus in Airborne Synthetic Aperture Radar: A Review. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 185-206.	9.6	81
4	Various maize yield losses and their dynamics triggered by drought thresholds based on Copula-Bayesian conditional probabilities. Agricultural Water Management, 2022, 261, 107391.	5.6	24
5	High-resolution propagation time from meteorological to agricultural drought at multiple levels and spatiotemporal scales. Agricultural Water Management, 2022, 262, 107428.	5.6	25
6	Development and application of high resolution SPEI drought dataset for Central Asia. Scientific Data, 2022, 9, 172.	5.3	17
7	Estimating High-Resolution Soil Moisture Over Mountainous Regions Using Remotely-Sensed Multispectral and Topographic Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3637-3649.	4.9	2
8	Attribution of global evapotranspiration trends based on the Budyko framework. Hydrology and Earth System Sciences, 2022, 26, 3691-3707.	4.9	12
9	A roadmap for high-resolution satellite soil moisture applications â€" confronting product characteristics with user requirements. Remote Sensing of Environment, 2021, 252, 112162.	11.0	138
10	Contrasting controls on Congo Basin evaporation at the two rainfall peaks. Climate Dynamics, 2021, 56, 1609-1624.	3.8	25
11	Global assessments of two blended microwave soil moisture products CCI and SMOPS with in-situ measurements and reanalysis data. International Journal of Applied Earth Observation and Geoinformation, 2021, 94, 102234.	2.8	23
12	Improving soil moisture prediction of a high-resolution land surface model by parameterising pedotransfer functions through assimilation of SMAP satellite data. Hydrology and Earth System Sciences, 2021, 25, 1617-1641.	4.9	23
13	A Comprehensive Evaluation of Latest GPM IMERG V06 Early, Late and Final Precipitation Products across China. Remote Sensing, 2021, 13, 1208.	4.0	27
14	Comprehensive evaluation of satellite-based and reanalysis soil moisture products using in situ observations over China. Hydrology and Earth System Sciences, 2021, 25, 4209-4229.	4.9	21
15	Characterizing the river water quality in China: Recent progress and on-going challenges. Water Research, 2021, 201, 117309.	11.3	127
16	Monitoring Water and Energy Cycles at Climate Scale in the Third Pole Environment (CLIMATE-TPE). Remote Sensing, 2021, 13, 3661.	4.0	7
17	Sentinel-1 soil moisture at 1 km resolution: a validation study. Remote Sensing of Environment, 2021, 263, 112554.	11.0	50
18	Estimation and evaluation of high-resolution soil moisture from merged model and Earth observation data in the Great Britain. Remote Sensing of Environment, 2021, 264, 112610.	11.0	30

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19	A first assessment of satellite and reanalysis estimates of surface and root-zone soil moisture over the permafrost region of Qinghai-Tibet Plateau. Remote Sensing of Environment, 2021, 265, 112666.	11.0	64
20	A harmonized global land evaporation dataset from model-based products covering 1980–2017. Earth System Science Data, 2021, 13, 5879-5898.	9.9	31
21	Influences of leaf area index and albedo on estimating energy fluxes with HOLAPS framework. Journal of Hydrology, 2020, 580, 124245.	5.4	4
22	Quantifying the cost-effectiveness of nutrient-removal strategies for a lowland rural watershed: Insights from process-based modeling. Ecological Modelling, 2020, 431, 109123.	2.5	8
23	Validation practices for satellite soil moisture retrievals: What are (the) errors?. Remote Sensing of Environment, 2020, 244, 111806.	11.0	164
24	The magnitude and drivers of harmful algal blooms in China's lakes and reservoirs: A national-scale characterization. Water Research, 2020, 181, 115902.	11.3	126
25	Satellite-Based Operational Real-Time Drought Monitoring in the Transboundary Lancang–Mekong River Basin. Remote Sensing, 2020, 12, 376.	4.0	11
26	Comprehensive analysis of alternative downscaled soil moisture products. Remote Sensing of Environment, 2020, 239, 111586.	11.0	52
27	A pan-African high-resolution drought index dataset. Earth System Science Data, 2020, 12, 753-769.	9.9	61
28	Copula-Based Abrupt Variations Detection in the Relationship of Seasonal Vegetation-Climate in the Jing River Basin, China. Remote Sensing, 2019, 11, 1628.	4.0	37
29	The Role of Hazard and Vulnerability in Modulating Economic Damages of Inland Floods in the United States Using a Survey-Based Dataset. Sustainability, 2019, 11, 3754.	3.2	6
30	Can We Use Satellite-Based FAPAR to Detect Drought?. Sensors, 2019, 19, 3662.	3.8	14
31	Streamflow response to climate change in the Greater Horn of Africa. Climatic Change, 2019, 156, 341-363.	3.6	24
32	The impact of the Madden-Julian Oscillation on hydrological extremes. Journal of Hydrology, 2019, 571, 142-149.	5.4	21
33	Recent changes in county-level maize production in the United States: Spatial-temporal patterns, climatic drivers and the implications for crop modelling. Science of the Total Environment, 2019, 686, 819-827.	8.0	15
34	Downscaling SMAP soil moisture estimation with gradient boosting decision tree regression over the Tibetan Plateau. Remote Sensing of Environment, 2019, 225, 30-44.	11.0	123
35	A Set of Satellite-Based Near Real-Time Meteorological Drought Monitoring Data over China. Remote Sensing, 2019, 11, 453.	4.0	10
36	Recent Changes in the Occurrences and Damages of Floods and Droughts in the United States. Water (Switzerland), 2018, 10, 1109.	2.7	14

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37	GRACE-Based Terrestrial Water Storage in Northwest China: Changes and Causes. Remote Sensing, 2018, 10, 1163.	4.0	36
38	Surface Soil Moisture Retrieval Using Optical/Thermal Infrared Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5433-5442.	6.3	16
39	Estimation of Land Surface Temperature Using FengYun-2E (FY-2E) Data: A Case Study of the Source Area of the Yellow River. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3744-3751.	4.9	7
40	A review of spatial downscaling of satellite remotely sensed soil moisture. Reviews of Geophysics, 2017, 55, 341-366.	23.0	441
41	Qualityâ€assured longâ€term satelliteâ€based leaf area index product. Global Change Biology, 2017, 23, 5027-5028.	9.5	7
42	The relationship between the Madden-Julian oscillation and the land surface soil moisture. Remote Sensing of Environment, 2017, 203, 226-239.	11.0	13
43	Recent Advances in Soil Moisture Estimation from Remote Sensing. Water (Switzerland), 2017, 9, 530.	2.7	52
44	Soil moisture downscaling using a simple thermal based proxy. , 2017, , .		0
45	Seeing Soil Moisture from the Sky. Eos, 2017, 98, .	0.1	0
46	High-resolution land surface fluxes from satellite and reanalysis data (HOLAPSÂv1.0): evaluation and uncertainty assessment. Geoscientific Model Development, 2016, 9, 2499-2532.	3.6	16
47	Comparison of satellite-based evapotranspiration estimates over the Tibetan Plateau. Hydrology and Earth System Sciences, 2016, 20, 3167-3182.	4.9	33
48	Spatial Downscaling of Satellite Soil Moisture Data Using a Vegetation Temperature Condition Index. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 558-566.	6.3	125
49	Evaluation of Satellite and Reanalysis Soil Moisture Products over Southwest China Using Ground-Based Measurements. Remote Sensing, 2015, 7, 15729-15747.	4.0	86
50	Evaluation of Daytime Evaporative Fraction from MODIS TOA Radiances Using FLUXNET Observations. Remote Sensing, 2014, 6, 5959-5975.	4.0	17
51	Uncertainties in Estimating Normalized Difference Temperature Index From TOA Radiances. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2487-2497.	6.3	11
52	Estimation of evapotranspiration from MODIS TOA radiances in the Poyang Lake basin, China. Hydrology and Earth System Sciences, 2013, 17, 1431-1444.	4.9	26
53	How representative are instantaneous evaporative fraction measurements of daytime fluxes?. Hydrology and Earth System Sciences, 2013, 17, 3913-3919.	4.9	32
54	A physical explanation of the variation in threshold for delineating terrestrial water surfaces from multi-temporal images: effects of radiometric correction. International Journal of Remote Sensing, 2012, 33, 5862-5875.	2.9	38