Jian Peng

List of Publications by Year
in descending order

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54	2,401	279798	214800
papers	citations	23 h-index	47 g-index

58	58	58	2162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of spatial downscaling of satellite remotely sensed soil moisture. Reviews of Geophysics, 2017, 55, 341-366.	23.0	441
2	Validation practices for satellite soil moisture retrievals: What are (the) errors?. Remote Sensing of Environment, 2020, 244, 111806.	11.0	164
3	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
4	Characterizing the river water quality in China: Recent progress and on-going challenges. Water Research, 2021, 201, 117309.	11.3	127
5	The magnitude and drivers of harmful algal blooms in Chinaâ€™s lakes and reservoirs: A national-scale characterization. Water Research, 2020, 181, 115902.	11.3	126
6	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
7	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
8	Evaluation of Satellite and Reanalysis Soil Moisture Products over Southwest China Using Ground-Based Measurements. Remote Sensing, 2015, 7, 15729-15747.	4.0	86
9	Motion Compensation/Autofocus in Airborne Synthetic Aperture Radar: A Review. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 185-206.	9.6	81
10	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
11	A pan-African high-resolution drought index dataset. Earth System Science Data, 2020, 12, 753-769.	9.9	61
12	Recent Advances in Soil Moisture Estimation from Remote Sensing. Water (Switzerland), 2017, 9, 530.	2.7	52
13	Comprehensive analysis of alternative downscaled soil moisture products. Remote Sensing of Environment, 2020, 239, 111586.	11.0	52
14	Sentinel-1 soil moisture at 1Âkm resolution: a validation study. Remote Sensing of Environment, 2021, 263, 112554.	11.0	50
15	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
16	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
17	GRACE-Based Terrestrial Water Storage in Northwest China: Changes and Causes. Remote Sensing, 2018, 10, 1163.	4.0	36
18	Comparison of satellite-based evapotranspiration estimates over the Tibetan Plateau. Hydrology and Earth System Sciences, 2016, 20, 3167-3182.	4.9	33

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19	How representative are instantaneous evaporative fraction measurements of daytime fluxes?. Hydrology and Earth System Sciences, 2013, 17, 3913-3919.	4.9	32
20	A harmonized global land evaporation dataset from model-based products covering 1980â€“2017. Earth System Science Data, 2021, 13, 5879-5898.	9.9	31
21	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
22	A Comprehensive Evaluation of Latest GPM IMERG V06 Early, Late and Final Precipitation Products across China. Remote Sensing, 2021, 13, 1208.	4.0	27
23	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
24	Contrasting controls on Congo Basin evaporation at the two rainfall peaks. Climate Dynamics, 2021, 56, 1609-1624.	3.8	25
25	High-resolution propagation time from meteorological to agricultural drought at multiple levels and spatiotemporal scales. Agricultural Water Management, 2022, 262, 107428.	5.6	25
26	Streamflow response to climate change in the Greater Horn of Africa. Climatic Change, 2019, 156, 341-363.	3.6	24
27	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
28	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
29	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
30	The impact of the Madden-Julian Oscillation on hydrological extremes. Journal of Hydrology, 2019, 571, 142-149.	5.4	21
31	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
32	Evaluation of Daytime Evaporative Fraction from MODIS TOA Radiances Using FLUXNET Observations. Remote Sensing, 2014, 6, 5959-5975.	4.0	17
33	Development and application of high resolution SPEI drought dataset for Central Asia. Scientific Data, 2022, 9, 172.	5.3	17
34	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
35	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
36	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

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37	Recent Changes in the Occurrences and Damages of Floods and Droughts in the United States. Water (Switzerland), 2018, 10, 1109.	2.7	14
38	Can We Use Satellite-Based FAPAR to Detect Drought?. Sensors, 2019, 19, 3662.	3.8	14
39	The relationship between the Madden-Julian oscillation and the land surface soil moisture. Remote Sensing of Environment, 2017, 203, 226-239.	11.0	13
40	Attribution of global evapotranspiration trends based on the Budyko framework. Hydrology and Earth System Sciences, 2022, 26, 3691-3707.	4.9	12
41	Uncertainties in Estimating Normalized Difference Temperature Index From TOA Radiances. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2487-2497.	6.3	11
42	Satellite-Based Operational Real-Time Drought Monitoring in the Transboundary Lancangâ€“Mekong River Basin. Remote Sensing, 2020, 12, 376.	4.0	11
43	A Set of Satellite-Based Near Real-Time Meteorological Drought Monitoring Data over China. Remote Sensing, 2019, 11, 453.	4.0	10
44	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
45	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
46	Qualityâ€assured longâ€term satelliteâ€based leaf area index product. Global Change Biology, 2017, 23, 5027-5028.	9.5	7
47	Monitoring Water and Energy Cycles at Climate Scale in the Third Pole Environment (CLIMATE-TPE). Remote Sensing, 2021, 13, 3661.	4.0	7
48	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
49	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
50	Influences of leaf area index and albedo on estimating energy fluxes with HOLAPS framework. Journal of Hydrology, 2020, 580, 124245.	5.4	4
51	Remote sensing of soil moisture. , 2023, , 618-630.		2
52	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
53	Soil moisture downscaling using a simple thermal based proxy. , 2017, , .		0
54	Seeing Soil Moisture from the Sky. Eos, 2017, 98, .	0.1	0