Si-Bo Duan

List of Publications by Year
in descending order

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77 papers	2,493 citations	201674 27 h-index	197818 49 g-index
77 all docs	77 docs citations	77 times ranked	1738 citing authors

#	Article	IF	Citations
1	Validation of Collection 6 MODIS land surface temperature product using in situ measurements. Remote Sensing of Environment, 2019, 225, 16-29.	11.0	258
2	A framework for the retrieval of all-weather land surface temperature at a high spatial resolution from polar-orbiting thermal infrared and passive microwave data. Remote Sensing of Environment, 2017, 195, 107-117.	11.0	217
3	Inversion of the PROSAIL model to estimate leaf area index of maize, potato, and sunflower fields from unmanned aerial vehicle hyperspectral data. International Journal of Applied Earth Observation and Geoinformation, 2014, 26, 12-20.	2.8	156
4	Generation of a time-consistent land surface temperature product from MODIS data. Remote Sensing of Environment, 2014, 140, 339-349.	11.0	131
5	Spatial Downscaling of MODIS Land Surface Temperatures Using Geographically Weighted Regression: Case Study in Northern China. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6458-6469.	6.3	114
6	Reconstruction of daytime land surface temperatures under cloud-covered conditions using integrated MODIS/Terra land products and MSG geostationary satellite data. Remote Sensing of Environment, 2020, 247, 111931.	11.0	101
7	A practical method for reducing terrain effect on land surface temperature using random forest regression. Remote Sensing of Environment, 2019, 221, 635-649.	11.0	95
8	Evaluation of six land-surface diurnal temperature cycle models using clear-sky in situ and satellite data. Remote Sensing of Environment, 2012, 124, 15-25.	11.0	93
9	Radiance-based validation of land surface temperature products derived from Collection 6 MODIS thermal infrared data. International Journal of Applied Earth Observation and Geoinformation, 2018, 70, 84-92.	2.8	76
10	Estimation of Diurnal Cycle of Land Surface Temperature at High Temporal and Spatial Resolution from Clear-Sky MODIS Data. Remote Sensing, 2014, 6, 3247-3262.	4.0	71
11	Land-surface temperature retrieval from Landsat 8 single-channel thermal infrared data in combination with NCEP reanalysis data and ASTER GED product. International Journal of Remote Sensing, 2019, 40, 1763-1778.	2.9	66
12	Cross-satellite comparison of operational land surface temperature products derived from MODIS and ASTER data over bare soil surfaces. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 126, 1-10.	11.1	65
13	Spatially Continuous and High-Resolution Land Surface Temperature Product Generation: A review of reconstruction and spatiotemporal fusion techniques. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 112-137.	9.6	61
14	Evaluation of Machine Learning Algorithms in Spatial Downscaling of MODIS Land Surface Temperature. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2299-2307.	4.9	60
15	A practical approach for deriving all-weather soil moisture content using combined satellite and meteorological data. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 131, 40-51.	11.1	57
16	A practical algorithm for estimating surface soil moisture using combined optical and thermal infrared data. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 338-348.	2.8	51
17	Normalization of the temporal effect on the MODIS land surface temperature product using random forest regression. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 152, 109-118.	11.1	51
18	A physically based algorithm for retrieving land surface temperature under cloudy conditions from AMSR2 passive microwave measurements. International Journal of Remote Sensing, 2019, 40, 1828-1843.	2.9	42

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19	Land Surface Temperature Retrieval from Passive Microwave Satellite Observations: State-of-the-Art and Future Directions. Remote Sensing, 2020, 12, 2573.	4.0	38
20	Direct estimation of land-surface diurnal temperature cycle model parameters from MSGâ€“SEVIRI brightness temperatures under clear sky conditions. Remote Sensing of Environment, 2014, 150, 34-43.	11.0	37
21	Estimation of daily mean land surface temperature at global scale using pairs of daytime and nighttime MODIS instantaneous observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 178, 51-67.	11.1	37
22	Modeling of Day-to-Day Temporal Progression of Clear-Sky Land Surface Temperature. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1050-1054.	3.1	32
23	Evaluation of Seven Atmospheric Profiles from Reanalysis and Satellite-Derived Products: Implication for Single-Channel Land Surface Temperature Retrieval. Remote Sensing, 2020, 12, 791.	4.0	32
24	Evaluation of Five Deep Learning Models for Crop Type Mapping Using Sentinel-2 Time Series Images with Missing Information. Remote Sensing, 2021, 13, 2790.	4.0	30
25	A method for land surface temperature retrieval based on model-data-knowledge-driven and deep learning. Remote Sensing of Environment, 2021, 265, 112665.	11.0	30
26	Spatiotemporal Reconstruction of Land Surface Temperature Derived From FengYun Geostationary Satellite Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4531-4543.	4.9	29
27	Intercomparison of Operational Land Surface Temperature Products Derived From MSG-SEVIRI and Terra/Aqua-MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4163-4170.	4.9	28
28	A generic framework for modeling diurnal land surface temperatures with remotely sensed thermal observations under clear sky. Remote Sensing of Environment, 2014, 150, 140-151.	11.0	26
29	Validation of Landsat land surface temperature product in the conterminous United States using in situ measurements from SURFRAD, ARM, and NDBC sites. International Journal of Digital Earth, 2021, 14, 640-660.	3.9	26
30	A two-step deep learning framework for mapping gapless all-weather land surface temperature using thermal infrared and passive microwave data. Remote Sensing of Environment, 2022, 277, 113070.	11.0	24
31	Algorithm Development for Land Surface Temperature Retrieval: Application to Chinese Gaofen-5 Data. Remote Sensing, 2017, 9, 161.	4.0	23
32	A Method for Deriving Allâ€Sky Evapotranspiration From the Synergistic Use of Remotely Sensed Images and Meteorological Data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,263.	3.3	21
33	Land Surface Temperature Retrieval From Landsat 8 Thermal Infrared Data Over Urban Areas Considering Geometry Effect: Method and Application. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	21
34	Validation and Analysis of Long-Term AATSR Land Surface Temperature Product in the Heihe River Basin, China. Remote Sensing, 2017, 9, 152.	4.0	20
35	Interannual Spatiotemporal Variations of Land Surface Temperature in China From 2003 to 2018. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1783-1795.	4.9	20
36	Land Surface Reflectance Retrieval from Hyperspectral Data Collected by an Unmanned Aerial Vehicle over the Baotou Test Site. PLoS ONE, 2013, 8, e66972.	2.5	19

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37	Influence of adjacency effect on high-spatial-resolution thermal infrared imagery: Implication for radiative transfer simulation and land surface temperature retrieval. Remote Sensing of Environment, 2020, 245, 111852.	11.0	19
38	Retrieval of Land Surface Temperature With Topographic Effect Correction From Landsat 8 Thermal Infrared Data in Mountainous Areas. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6674-6687.	6.3	18
39	Generation of continuous surface soil moisture dataset using combined optical and thermal infrared images. Hydrological Processes, 2017, 31, 1398-1407.	2.6	16
40	Development of a split-window algorithm for estimating sea surface temperature from the Chinese Gaofen-5 data. International Journal of Remote Sensing, 2019, 40, 1621-1639.	2.9	16
41	Atmospheric correction for retrieving ground brightness temperature at commonly-used passive microwave frequencies. Optics Express, 2017, 25, A36.	3.4	15
42	Improvement of Split-Window Algorithm for Land Surface Temperature Retrieval from Sentinel-3A SLSTR Data Over Barren Surfaces Using ASTER GED Product. Remote Sensing, 2019, 11, 3025.	4.0	14
43	Determination of all-sky surface soil moisture at fine spatial resolution synergistically using optical/thermal infrared and microwave measurements. Journal of Hydrology, 2019, 579, 124167.	5.4	11
44	A Contextual Fire Detection Algorithm for Simulated HJ-1B Imagery. Sensors, 2009, 9, 961-979.	3.8	10
45	An alternative split-window algorithm for retrieving land surface temperature from Visible Infrared Imaging Radiometer Suite data. International Journal of Remote Sensing, 2019, 40, 1640-1654.	2.9	10
46	Intercomparison of AMSR2- and MODIS-Derived Land Surface Temperature Under Clear-Sky Conditions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3286-3294.	4.9	10
47	Characterization of maximum land surface temperatures in 16Âyears from MODIS in Iran. Environmental Earth Sciences, 2018, 77, 1.	2.7	9
48	First results of all-weather soil moisture retrieval from an optical/thermal infrared remote-sensing-based operational system in China. International Journal of Remote Sensing, 2019, 40, 2069-2086.	2.9	9
49	Preliminary validation of two temporal parameter-based soil moisture retrieval models using a satellite product and in situ soil moisture measurements over the REMEDHUS network. International Journal of Remote Sensing, 2016, 37, 5902-5917.	2.9	8
50	A Practical Two-Stage Algorithm for Retrieving Land Surface Temperature from AMSR-E Dataâ€"A Case Study Over China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1939-1948.	4.9	8
51	Cloudy land surface temperature retrieval from three-channel microwave data. International Journal of Remote Sensing, 2019, 40, 1793-1807.	2.9	8
52	A remote sensing method for retrieving land surface emissivity and temperature in cloudy areas: a case study over South China. International Journal of Remote Sensing, 2019, 40, 1724-1735.	2.9	7
53	Evaluation of temporal variations in soil moisture based on the microwave polarization difference index usingin situdata over agricultural areas in China. International Journal of Remote Sensing, 2015, 36, 5003-5014.	2.9	6
54	A Spectral Signature Shape-Based Algorithm for Landsat Image Classification. ISPRS International Journal of Geo-Information, 2016, 5, 154.	2.9	6

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55	Drought loss assessment combining remote sensing and a crop growth model for maize in Yunnan Province, China. International Journal of Remote Sensing, 2019, 40, 2151-2165.	2.9	5
56	A Method for Deriving Relative Humidity From MODIS Data Under All-Sky Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8992-9006.	6.3	5
57	A Full Satelliteâ€Driven Method for the Retrieval of Clearâ€Sky Evapotranspiration. Earth and Space Science, 2019, 6, 2251-2262.	2.6	4
58	Quantifying the Influences of Driving Factors on Land Surface Temperature during 2003â€“2018 in China Using Convergent Cross Mapping Method. Remote Sensing, 2022, 14, 3280.	4.0	4
59	Evapotranspiration Retrieval Under Different Aridity Conditions Over North American Grasslands. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7205-7215.	6.3	3
60	Spatio-Temporal Distribution Characteristics of Global Annual Maximum Land Surface Temperature Derived from MODIS Thermal Infrared Data From 2003 to 2019. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4690-4697.	4.9	3
61	Derivation of new split window algorithm for retrieving land surface temperature from FY-3/VIRR data. , 2015, , .		2
62	Generation of an all-weather land surface temperature product from MODIS and AMSR-E data. , 2015, , .		2
63	Combining thermal inertia and a diurnal temperature difference cycle model to estimate thermal inertia from MSG-SEVIRI data. International Journal of Remote Sensing, 2015, 36, 4808-4819.	2.9	2
64	Evaluation of Spatiotemporal Fusion Models in Land Surface Temperature Using Polar-Orbiting and Geostationary Satellite Data. , 2020, , .		2
65	Temporal normalization of Terra-MODIS land surface temperature product. , 2013, , .		1
66	Temporal-spatial variations monitoring of soil moisture using microwave polarization difference index. , 2014, , .		1
67	Complement analysis for the wavelet transform method for separating temperature and emissivity. , 2017, , .		1
68	Retrieval of Subpixel Fire Temperature and Fire Area using Simulated HJ-1B Data. , 2008, , .		0
69	Preliminary results of temporal normalization of MODIS land surface temperature. , 2011, , .		0
70	Comparison OF AMSR-E soil moisture product and ground-based measurement over agricultural areas in China. , 2015, , .		0
71	An algorithm for retrieving land surface temperature from AMSR-E data over the desert regions. , 2017, , .		0
72	Estimation of annual daily averaged evapotranspiration across China during 1996â€“2015 using passive microwave observations. , 2017, , .		0

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73	New Perspective on Global Thermal Environment Monitoring. , 2019, , .		0
74	1Estimation of Spatially Complete Land Surface Evapotranspiration Over The Heihe River Basin. , 2019, , .		0
75	Evaluation of A Physically-Based Passive Microwave Land Surface Temperature Retrieval Algorithm Using MODIS Data. , 2019, , .		0
76	Land Surface Emissivity Estimation from Satellite Data with Machine Learning. , 2021, , .		0
77	Retrieval of Land Surface Temperature and Soil Moisture from Passive Microwave Observations. , 2021, , .		0