Dongdong Wang

List of Publications by Year
in descending order

63 papers	2,284 citations	172457 29 h-index	223800 46 g-index
63 all docs	63 docs citations	63 times ranked	2266 citing authors

#	Article	IF	Citations
1	Impact of sensor degradation on the MODIS NDVI time series. Remote Sensing of Environment, 2012, 119, 55-61.	11.0	171
2	A practical reanalysis data and thermal infrared remote sensing data merging (RTM) method for reconstruction of a 1-km all-weather land surface temperature. Remote Sensing of Environment, 2021, 260, 112437.	11.0	126
3	Satellite‐based evidence for shrub and graminoid tundra expansion in northern <scp>Q</scp>uebec from 1986 to 2010. Global Change Biology, 2012, 18, 2313-2323.	9.5	114
4	Estimating surface solar irradiance from satellites: Past, present, and future perspectives. Remote Sensing of Environment, 2019, 233, 111371.	11.0	109
5	Remote sensing of earth's energy budget: synthesis and review. International Journal of Digital Earth, 2019, 12, 737-780.	3.9	105
6	Evaluating land surface albedo estimation from Landsat MSS, TM, ETM +, and OLI data based on the unified direct estimation approach. Remote Sensing of Environment, 2018, 204, 181-196.	11.0	91
7	Observed contrast changes in snow cover phenology in northern middle and high latitudes from 2001–2014. Scientific Reports, 2015, 5, 16820.	3.3	86
8	Estimation of surface albedo and directional reflectance from Moderate Resolution Imaging Spectroradiometer (MODIS) observations. Remote Sensing of Environment, 2012, 119, 286-300.	11.0	71
9	Estimating daily average surface air temperature using satellite land surface temperature and top-of-atmosphere radiation products over the Tibetan Plateau. Remote Sensing of Environment, 2019, 234, 111462.	11.0	66
10	Direct estimation of land surface albedo from VIIRS data: Algorithm improvement and preliminary validation. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,577.	3.3	64
11	Greenland surface albedo changes in July 1981–2012 from satellite observations. Environmental Research Letters, 2013, 8, 044043.	5.2	59
12	Estimation of 1-km all-weather remotely sensed land surface temperature based on reconstructed spatial-seamless satellite passive microwave brightness temperature and thermal infrared data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 321-344.	11.1	59
13	Assessment of five global satellite products of fraction of absorbed photosynthetically active radiation: Intercomparison and direct validation against ground-based data. Remote Sensing of Environment, 2015, 163, 270-285.	11.0	57
14	Estimating daily mean land surface albedo from MODIS data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4825-4841.	3.3	50
15	NIR-red spectral space based new method for soil moisture monitoring. Science in China Series D: Earth Sciences, 2007, 50, 283-289.	0.9	49
16	Cloudy-sky land surface temperature from VIIRS and MODIS satellite data using a surface energy balance-based method. Remote Sensing of Environment, 2021, 263, 112566.	11.0	49
17	A New Set of MODIS Land Products (MCD18): Downward Shortwave Radiation and Photosynthetically Active Radiation. Remote Sensing, 2020, 12, 168.	4.0	48
18	Estimation of high-resolution land surface net shortwave radiation from AVIRIS data: Algorithm development and preliminary results. Remote Sensing of Environment, 2015, 167, 20-30.	11.0	45

#	ARTICLE	IF	CITATIONS
19	Satellite-based assessment of climate controls on US burned area. Biogeosciences, 2013, 10, 247-260.	3.3	44
20	Estimation of daily-integrated PAR from sparse satellite observations: comparison of temporal scaling methods. International Journal of Remote Sensing, 2010, 31, 1661-1677.	2.9	43
21	Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5519-5529.	6.3	42
22	Enhanced wintertime greenhouse effect reinforcing Arctic amplification and initial sea-ice melting. Scientific Reports, 2017, 7, 8462.	3.3	41
23	An Operational Approach for Generating the Global Land Surface Downward Shortwave Radiation Product From MODIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4636-4650.	6.3	41
24	Fusion of Satellite Land Surface Albedo Products Across Scales Using a Multiresolution Tree Method in the North Central United States. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3428-3439.	6.3	38
25	Estimating clear-sky all-wave net radiation from combined visible and shortwave infrared (VSWIR) and thermal infrared (TIR) remote sensing data. Remote Sensing of Environment, 2015, 167, 31-39.	11.0	38
26	Estimation of all-sky instantaneous surface incident shortwave radiation from Moderate Resolution Imaging Spectroradiometer data using optimization method. Remote Sensing of Environment, 2018, 209, 468-479.	11.0	38
27	Mapping High-Resolution Surface Shortwave Net Radiation From Landsat Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 459-463.	3.1	33
28	Hierarchical Bayesian space-time estimation of monthly maximum and minimum surface air temperature. Remote Sensing of Environment, 2018, 211, 48-58.	11.0	31
29	Trans-Arctic shipping routes expanding faster than the model projections. Global Environmental Change, 2022, 73, 102488.	7.8	30
30	Estimation of High-Resolution Land Surface Shortwave Albedo From AVIRIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4919-4928.	4.9	29
31	Land Surface Albedo Estimation from Chinese HJ Satellite Data Based on the Direct Estimation Approach. Remote Sensing, 2015, 7, 5495-5510.	4.0	26
32	Assessment of the Suomi NPP VIIRS Land Surface Albedo Data Using Station Measurements and High-Resolution Albedo Maps. Remote Sensing, 2016, 8, 137.	4.0	25
33	Developing Land Surface Directional Reflectance and Albedo Products from Geostationary GOES-R and Himawari Data: Theoretical Basis, Operational Implementation, and Validation. Remote Sensing, 2019, 11, 2655.	4.0	24
34	Long-term record of top-of-atmosphere albedo over land generated from AVHRR data. Remote Sensing of Environment, 2018, 211, 71-88.	11.0	23
35	Toward a Broadband Parameterization Scheme for Estimating Surface Solar Irradiance: Development and Preliminary Results on MODIS Products. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,180.	3.3	22
36	Integrating MODIS and CYCLOPES Leaf Area Index Products Using Empirical Orthogonal Functions. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1513-1519.	6.3	21

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37	Estimating high-resolution top of atmosphere albedo from Moderate Resolution Imaging Spectroradiometer data. Remote Sensing of Environment, 2016, 178, 93-103.	11.0	20
38	Assessment of Long-Term Sensor Radiometric Degradation Using Time Series Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2960-2976.	6.3	18
39	Improving LAI Mapping by Integrating MODIS and CYCLOPES LAI Products Using Optimal Interpolation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 445-457.	4.9	17
40	Surface Shortwave Net Radiation Estimation from FengYun-3 MERSI Data. Remote Sensing, 2015, 7, 6224-6239.	4.0	17
41	Estimating Top-of-Atmosphere Daily Reflected Shortwave Radiation Flux Over Land From MODIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4022-4031.	6.3	15
42	Improving Satellite Estimates of the Fraction of Absorbed Photosynthetically Active Radiation Through Data Integration: Methodology and Validation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2107-2118.	6.3	15
43	Surface Shortwave Net Radiation Estimation from Landsat TM/ETM+ Data Using Four Machine Learning Algorithms. Remote Sensing, 2019, 11, 2847.	4.0	15
44	A New Method for Retrieving Daily Land Surface Albedo From VIIRS Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1765-1775.	6.3	14
45	Management and climate contributions to satellite-derived active fire trends in the contiguous United States. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 645-660.	3.0	13
46	Direct Estimation of Land Surface Albedo From Simultaneous MISR Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2605-2617.	6.3	13
47	A synergic study on estimating surface downward shortwave radiation from satellite data. Remote Sensing of Environment, 2021, 264, 112639.	11.0	13
48	Comprehensive assessment of five global daily downward shortwave radiation satellite products. Science of Remote Sensing, 2021, 4, 100028.	4.8	12
49	Remote Sensing of the Land Surface Radiation Budget. , 2013, , 121-162.		11
50	Global Daily Actual and Snow-Free Blue-Sky Land Surface Albedo Climatology From 20-Year MODIS Products. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	11
51	Estimating global downward shortwave radiation from VIIRS data using a transfer-learning neural network. Remote Sensing of Environment, 2022, 274, 112999.	11.0	11
52	Simultaneous Estimation of Multiple Land-Surface Parameters From VIIRS Optical-Thermal Data. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 156-160.	3.1	10
53	Evaluating the Spatial Representativeness of the MODerate Resolution Image Spectroradiometer Albedo Product (MCD43) at AmeriFlux Sites. Remote Sensing, 2019, 11, 547.	4.0	10
54	Using multiresolution tree to integrate MODIS and MISR-L3 LAI products. , 2010, , .		9

#	Article	IF	Citations
55	Development of broadband albedo based ecological safety monitoring index. , 0, , .		7
56	Singular Spectrum Analysis for Filling Gaps and Reducing Uncertainties of MODIS Land Products. , 2008, , .		5
57	Evaluation of Five Satellite Top-of-Atmosphere Albedo Products over Land. Remote Sensing, 2019, 11, 2919.	4.0	5
58	Estimation of Land Surface Incident Shortwave Radiation From Geostationary Advanced Himawari Imager and Advanced Baseline Imager Observations Using an Optimization Method. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	5
59	A machine learning method trained by radiative transfer model inversion for generating seven global land and atmospheric estimates from VIIRS top-of-atmosphere observations. Remote Sensing of Environment, 2022, 279, 113132.	11.0	5
60	Prototyping GOES-R albedo algorithm based on modis data. , 2011, , .		2
61	Estimation of Land Surface Incident and Net Shortwave Radiation from Visible Infrared Imaging Radiometer Suite (VIIRS) Using an Optimization Method. Remote Sensing, 2020, 12, 4153.	4.0	2
62	Simultaneous estimation of surface photosynthetically active radiation and albedo from GOES. , 2008, , .		1
63	VIIRS land surface albedo product: Algorithm development and validation. , 2017, , .		0