Tao He

List of Publications by Year
in descending order

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92	2,248	172457	243625
papers	citations	29 h-index	44 g-index

98	98	98	2096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of global land surface albedo climatology and spatialâ€temporal variation during 1981â€“2010 from multiple satellite products. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,281.	3.3	119
2	Anisotropic characteristic of artificial light at night â€“ Systematic investigation with VIIRS DNB multi-temporal observations. Remote Sensing of Environment, 2019, 233, 111357.	11.0	110
3	Remote sensing of earthâ€™s energy budget: synthesis and review. International Journal of Digital Earth, 2019, 12, 737-780.	3.9	105
4	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
5	Use of In Situ and Airborne Multiangle Data to Assess MODIS- and Landsat-Based Estimates of Directional Reflectance and Albedo. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1393-1404.	6.3	90
6	Observed contrast changes in snow cover phenology in northern middle and high latitudes from 2001â€“2014. Scientific Reports, 2015, 5, 16820.	3.3	86
7	Mapping Surface Broadband Albedo from Satellite Observations: A Review of Literatures on Algorithms and Products. Remote Sensing, 2015, 7, 990-1020.	4.0	81
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	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
10	An approach for the long-term 30-m land surface snow-free albedo retrieval from historic Landsat surface reflectance and MODIS-based a priori anisotropy knowledge. Remote Sensing of Environment, 2014, 152, 467-479.	11.0	64
11	Greenland surface albedo changes in July 1981â€“2012 from satellite observations. Environmental Research Letters, 2013, 8, 044043.	5.2	59
12	Angular Effects and Correction for Medium Resolution Sensors to Support Crop Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4480-4489.	4.9	57
13	Estimating daily mean land surface albedo from MODIS data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4825-4841.	3.3	50
14	Urban expansion patterns of 291 Chinese cities, 1990â€“2015. International Journal of Digital Earth, 2019, 12, 62-77.	3.9	48
15	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
16	Global albedo change and radiative cooling from anthropogenic land cover change, 1700 to 2005 based on MODIS, land use harmonization, radiative kernels, and reanalysis. Geophysical Research Letters, 2014, 41, 9087-9096.	4.0	44
17	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
18	Enhanced wintertime greenhouse effect reinforcing Arctic amplification and initial sea-ice melting. Scientific Reports, 2017, 7, 8462.	3.3	41

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19	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
20	Temperature changes in Three Gorges Reservoir Area and linkage with Three Gorges Project. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4866-4879.	3.3	40
21	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
22	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
23	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
24	Estimation of all-sky 1Âkm land surface temperature over the conterminous United States. Remote Sensing of Environment, 2021, 266, 112707.	11.0	35
25	Mapping High-Resolution Surface Shortwave Net Radiation From Landsat Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 459-463.	3.1	33
26	Estimation of fraction of absorbed photosynthetically active radiation from multiple satellite data: Model development and validation. Remote Sensing of Environment, 2016, 184, 539-557.	11.0	33
27	Multiscale climatological albedo look-up maps derived from moderate resolution imaging spectroradiometer BRDF/albedo products. Journal of Applied Remote Sensing, 2014, 8, 083532.	1.3	31
28	Soil moisture content retrieval from Landsat 8 data using ensemble learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 185, 32-47.	11.1	31
29	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
30	Assessment of Sea Ice Albedo Radiative Forcing and Feedback over the Northern Hemisphere from 1982 to 2009 Using Satellite and Reanalysis Data. Journal of Climate, 2015, 28, 1248-1259.	3.2	29
31	Estimation of all-sky all-wave daily net radiation at high latitudes from MODIS data. Remote Sensing of Environment, 2020, 245, 111842.	11.0	28
32	Land Surface Albedo Estimation from Chinese HJ Satellite Data Based on the Direct Estimation Approach. Remote Sensing, 2015, 7, 5495-5510.	4.0	26
33	Local land surface temperature change induced by afforestation based on satellite observations in Guangdong plantation forests in China. Agricultural and Forest Meteorology, 2019, 276-277, 107641.	4.8	26
34	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
35	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
36	Strong cooling induced by stand-replacing fires through albedo in Siberian larch forests. Scientific Reports, 2018, 8, 4821.	3.3	23

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37	An all-sky 1â€‰km daily land surface air temperature product over mainland China for 2003â€“2019 from MODIS and ancillary data. Earth System Science Data, 2021, 13, 4241-4261.	9.9	22
38	Distribution, attribution, and radiative forcing of snow cover changes over China from 1982 to 2013. Climatic Change, 2016, 137, 363-377.	3.6	21
39	A gridded optimization model for photovoltaic applications. Solar Energy, 2020, 202, 465-484.	6.1	21
40	Evaluation of Medium Spatial Resolution BRDF-Adjustment Techniques Using Multi-Angular SPOT4 (Take5) Acquisitions. Remote Sensing, 2015, 7, 12057-12075.	4.0	20
41	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
42	Surface Shortwave Net Radiation Estimation from FengYun-3 MERSI Data. Remote Sensing, 2015, 7, 6224-6239.	4.0	17
43	Multi-decadal analysis of high-resolution albedo changes induced by urbanization over contrasted Chinese cities based on Landsat data. Remote Sensing of Environment, 2022, 269, 112832.	11.0	16
44	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
45	Surface Shortwave Net Radiation Estimation from Landsat TM/ETM+ Data Using Four Machine Learning Algorithms. Remote Sensing, 2019, 11, 2847.	4.0	15
46	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
47	Estimating fractional snow cover from passive microwave brightness temperature data using MODIS snow cover product over North America. Cryosphere, 2021, 15, 835-861.	3.9	14
48	High resolution aerosol optical depth retrieval over urban areas from Landsat-8 OLI images. Atmospheric Environment, 2021, 261, 118591.	4.1	14
49	Direct Estimation of Land Surface Albedo From Simultaneous MISR Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2605-2617.	6.3	13
50	Evaluation and Intercomparison of Topographic Correction Methods Based on Landsat Images and Simulated Data. Remote Sensing, 2021, 13, 4120.	4.0	13
51	Extension of the Hapke model to the spectral domain to characterize soil physical properties. Remote Sensing of Environment, 2022, 269, 112843.	11.0	13
52	Mapping Climatological Bare Soil Albedos over the Contiguous United States Using MODIS Data. Remote Sensing, 2019, 11, 666.	4.0	12
53	Development of the Direct-Estimation Albedo Algorithm for Snow-Free Landsat TM Albedo Retrievals Using Field Flux Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1550-1567.	6.3	12
54	Intercomparison of Machine-Learning Methods for Estimating Surface Shortwave and Photosynthetically Active Radiation. Remote Sensing, 2020, 12, 372.	4.0	12

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55	Estimation and validation of 30Âm fractional vegetation cover over China through integrated use of Landsat 8 and Gaofen 2 data. Science of Remote Sensing, 2022, 6, 100058.	4.8	12
56	Remote Sensing of the Land Surface Radiation Budget. , 2013, , 121-162.		11
57	Evaluating the Spatial Representativeness of the MODerate Resolution Image Spectroradiometer Albedo Product (MCD43) at AmeriFlux Sites. Remote Sensing, 2019, 11, 547.	4.0	10
58	A General Parameterization Scheme for the Estimation of Incident Photosynthetically Active Radiation Under Cloudy Skies. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6255-6265.	6.3	10
59	Evaluation of Four Reanalysis Surface Albedo Data Sets in Arctic Using a Satellite Product. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	3.1	8
60	Very Rapid Forest Cover Change in Sichuan Province, China: 40 Years of Change Using Images From Declassified Spy Satellites and Landsat. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10964-10976.	4.9	8
61	Land Surface Phenology Retrieval through Spectral and Angular Harmonization of Landsat-8, Sentinel-2 and Gaofen-1 Data. Remote Sensing, 2022, 14, 1296.	4.0	8
62	Mapping 30 m Fractional Forest Cover over Chinaâ€™s Three-North Region from Landsat-8 Data Using Ensemble Machine Learning Methods. Remote Sensing, 2021, 13, 2592.	4.0	6
63	Estimation of Aerosol Optical Depth at 30 m Resolution Using Landsat Imagery and Machine Learning. Remote Sensing, 2022, 14, 1053.	4.0	6
64	Bidirectional Reflectance for Multiple Snow-Covered Land Types From MISR Products. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 994-998.	3.1	5
65	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
66	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
67	An Improved Algorithm to Produce Spatio-Temporally Continuous MODIS Albedo Product in China. , 2008, , .		4
68	An Automatic Radiometric Cross-Calibration Method for Wide-Angle Medium-Resolution Multispectral Satellite Sensor Using Landsat Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	3
69	Improving Fractional Snow Cover Retrieval From Passive Microwave Data Using a Radiative Transfer Model and Machine Learning Method. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	3
70	Landsat Snow-Free Surface Albedo Estimation Over Sloping Terrain: Algorithm Development and Evaluation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	3
71	Prototyping GOES-R albedo algorithm based on modis data. , 2011, , .		2
72	Influence of angular effects and adjustment on medium resolution sensors for crop monitoring. , 2013, , .		2

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73	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
74	Land Surface Albedo Estimation With Chinese GF-1 WFV Data in Northwest China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 849-861.	4.9	2
75	Estimation of 1-km Resolution All-Sky Instantaneous Erythemal UV-B with MODIS Data Based on a Deep Learning Method. Remote Sensing, 2022, 14, 384.	4.0	2
76	Generating high spatial resolution GLASS FAPAR product from Landsat images. Science of Remote Sensing, 2022, 6, 100060.	4.8	2
77	Snow BRDF characteristics from MODIS and MISR data. , 2011, , .		1
78	Estimation of fraction of Absorbed Photosynthetically Active Radiation from multiple satellite data. , 2013, , .		1
79	Editorial for Special Issue: â€œRemotely Sensed Albedoâ€. Remote Sensing, 2019, 11, 1941.	4.0	1
80	Improved modeling and analysis of the patch sizeâ€“frequency distribution of forest disturbances in China based on a Landsat forest cover change product. International Journal of Digital Earth, 2021, 14, 181-201.	3.9	1
81	Developing a Land Continuous Variable Estimator to Generate Daily Land Products From Landsat Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	1
82	Estimation of Daily All-Wave Surface Net Radiation With Multispectral and Multitemporal Observations From GOES-16 ABI. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	1
83	Generating consistent satellite land surface albedo products across scales using a data fusion method. , 2013, , .		0
84	Method of parameterization and discrimination of spectral profile shape. , 2013, , .		0
85	Temporal Analysis of Remotely Sensed Land Surface Shortwave Albedo. Remote Sensing and Digital Image Processing, 2016, , 255-275.	0.7	0
86	High Resolution Albedo Estimation with Chinese GF-1 WFV Data. , 2018, , .		0
87	Mapping Surface Albedo from the Complete Landsat Archive since the 1980S and Its Cryospheric Application. , 2018, , .		0
88	Evaluation of forest disturbance and its patch size distribution in china from remote sensing product. , 2019, , .		0
89	Effects of Urbanization on Long-Term Surface Albedo Variation Using Landsat Data. , 2019, , .		0
90	UV Radiation Estimation in the United States Using Modis Data. , 2019, , .		0

#	Article	IF	Citations
91	Contributors of the second edition. , 2020, , ix-xiii.		0
92	Determining the accuracy of the landsat-based land continuous Variable Estimator. Science of Remote Sensing, 2022, 5, 100054.	4.8	0