

# Jie Cheng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

2,038  
citations

23  
h-index

42  
g-index

98  
ext. papers

2,530  
ext. citations

5.2  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
87	Understanding the Relationship between China's Eco-Environmental Quality and Urbanization Using Multisource Remote Sensing Data. <i>Remote Sensing</i> , <b>2022</b> , 14, 198	5	3
86	Validation of the ECOSTRESS Land Surface Temperature Product Using Ground Measurements. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 19, 1-5	4.1	1
85	Assessment of surface downward longwave radiation in CMIP6 with comparison to observations and CMIP5. <i>Atmospheric Research</i> , <b>2022</b> , 106056	5.4	0
84	Simultaneous retrieval of land surface temperature and emissivity from the FengYun-4A advanced geosynchronous radiation imager. <i>International Journal of Digital Earth</i> , <b>2022</b> , 15, 198-225	3.9	1
83	A direct algorithm for estimating clear-sky surface longwave net radiation (SLNR) from MODIS imagery. <i>International Journal of Remote Sensing</i> , <b>2022</b> , 43, 1655-1683	3.1	0
82	Estimation of the All-Wave All-Sky Land Surface Daily Net Radiation at Mid-Low Latitudes from MODIS Data Based on ERA5 Constraints. <i>Remote Sensing</i> , <b>2022</b> , 14, 33	5	1
81	Can the ERA5 reanalysis product improve the atmospheric correction accuracy of Landsat series thermal infrared data?. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 1-1	4.1	
80	Evaluation of Surface Upward Longwave Radiation in the CMIP6 Models with Ground and Satellite Observations. <i>Remote Sensing</i> , <b>2021</b> , 13, 4464	5	0
79	Fusion of All-Weather Land Surface Temperature From AMSR-E and MODIS Data Using Random Forest Regression. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-1	4.1	1
78	Generating the 30-m land surface temperature product over continental China and USA from landsat 5/7/8 data. <i>Science of Remote Sensing</i> , <b>2021</b> , 4, 100032	11.8	8
77	A New Empirical Estimation Scheme for Daily Net Radiation at the Ocean Surface. <i>Remote Sensing</i> , <b>2021</b> , 13, 4170	5	0
76	A Random Forest-Based Data Fusion Method for Obtaining All-Weather Land Surface Temperature with High Spatial Resolution. <i>Remote Sensing</i> , <b>2021</b> , 13, 2211	5	5
75	A new land surface temperature fusion strategy based on cumulative distribution function matching and multiresolution Kalman filtering. <i>Remote Sensing of Environment</i> , <b>2021</b> , 254, 112256	13.2	25
74	Trends and Variability of Atmospheric Downward Longwave Radiation Over China From 1958 to 2015. <i>Earth and Space Science</i> , <b>2021</b> , 8, e2020EA001370	3.1	3
73	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 59, 4105-4119	8.1	3
72	Validation of a Cloud-Base Temperature-Based Single-Layer Cloud Model for Estimating Surface Longwave Downward Radiation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	0
71	The Global Land Surface Satellite (GLASS) Product Suite. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, E323-E337	6.1	60

70	Quantization of the coupling mechanism between eco-environmental quality and urbanization from multisource remote sensing data. <i>Journal of Cleaner Production</i> , <b>2021</b> , 321, 128948	10.3	21
69	An Improved Temperature and Emissivity Separation Algorithm for the Advanced Himawari Imager. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 7105-7124	8.1	11
68	Estimating Surface Downward Longwave Radiation Using Machine Learning Methods. <i>Atmosphere</i> , <b>2020</b> , 11, 1147	2.7	8
67	A New Long-Term Downward Surface Solar Radiation Dataset over China from 1958 to 2015. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
66	Impact of Air Temperature Inversion on the Clear-Sky Surface Downward Longwave Radiation Estimation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 4796-4802	8.1	6
65	Estimation of Surface Downward Shortwave Radiation over China from Himawari-8 AHI Data Based on Random Forest. <i>Remote Sensing</i> , <b>2020</b> , 12, 181	5	14
64	Assessment of the Long-Term High-Spatial-Resolution Global LAnd Surface Satellite (GLASS) Surface Longwave Radiation Product Using Ground Measurements. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 13, 2032-2055	4.7	13
63	A framework for estimating cloudy sky surface downward longwave radiation from the derived active and passive cloud property parameters. <i>Remote Sensing of Environment</i> , <b>2020</b> , 248, 111972	13.2	18
62	A Stepwise Downscaling Method for Generating High-Resolution Land Surface Temperature From AMSR-E Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 1-1	4.7	12
61	Estimating Land and Sea Surface Temperature From Cross-Calibrated Chinese Gaofen-5 Thermal Infrared Data Using Split-Window Algorithm. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 509-513	4.1	10
60	An Empirical Algorithm for Retrieving Land Surface Temperature From AMSR-E Data Considering the Comprehensive Effects of Environmental Variables. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2019EA001006	3.1	11
59	A Monte Carlo Emissivity Model for Wind-Roughened Sea Surface. <i>Sensors</i> , <b>2019</b> , 19,	3.8	9
58	A Framework for Estimating Clear-Sky Atmospheric Total Precipitable Water (TPW) from VIIRS/S-NPP. <i>Remote Sensing</i> , <b>2019</b> , 11, 916	5	3
57	Directional variation in surface emissivity inferred from the MYD21 product and its influence on estimated surface upwelling longwave radiation. <i>Remote Sensing of Environment</i> , <b>2019</b> , 228, 45-60	13.2	11
56	Aboveground forest biomass based on OLSR and an ANN model integrating LiDAR and optical data in a mountainous region of China. <i>International Journal of Remote Sensing</i> , <b>2019</b> , 40, 6059-6083	3.1	5
55	Using Very High Resolution Thermal Infrared Imagery for More Accurate Determination of the Impact of Land Cover Differences on Evapotranspiration in an Irrigated Agricultural Area. <i>Remote Sensing</i> , <b>2019</b> , 11, 613	5	21
54	Estimating Land Surface Temperature from Landsat-8 Data using the NOAA JPSS Enterprise Algorithm. <i>Remote Sensing</i> , <b>2019</b> , 11, 155	5	32
53	Comprehensive assessment of parameterization methods for estimating clear-sky surface downward longwave radiation. <i>Theoretical and Applied Climatology</i> , <b>2019</b> , 135, 1045-1058	3	20

52	Spatio-Temporal Analysis of Urban Heat Island Using Multisource Remote Sensing Data: A Case Study in Hangzhou, China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 3317-3326	4.7	22
51	Evaluation of Bayesian Multimodel Estimation in Surface Incident Shortwave Radiation Simulation over High Latitude Areas. <i>Remote Sensing</i> , <b>2019</b> , 11, 1776	5	4
50	Reconstructing All-Weather Land Surface Temperature Using the Bayesian Maximum Entropy Method Over the Tibetan Plateau and Heihe River Basin. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 3307-3316	4.7	17
49	A review of earth surface thermal radiation directionality observing and modeling: Historical development, current status and perspectives. <i>Remote Sensing of Environment</i> , <b>2019</b> , 232, 111304	13.2	52
48	Ground-based Measurements of Atmospheric Trace Gases in Beijing during the Olympic Games. <i>Sci</i> , <b>2019</b> , 1, 18	0.7	
47	A Comparative Study of Bulk Parameterization Schemes for Estimating Cloudy-Sky Surface Downward Longwave Radiation. <i>Remote Sensing</i> , <b>2019</b> , 11, 528	5	14
46	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 493-507	4.7	21
45	Is There a Physical Linkage Between Surface Emissive and Reflective Variables Over Non-Vegetated Surfaces? <b>2018</b> , 46, 591-596		5
44	Deriving high-quality surface emissivity spectra from atmospheric infrared sounder data using cumulative distribution function matching and principal component analysis regression. <i>Remote Sensing of Environment</i> , <b>2018</b> , 211, 388-399	13.2	7
43	A disaggregation approach for estimating high spatial resolution broadband emissivity for bare soils from Landsat surface reflectance. <i>International Journal of Digital Earth</i> , <b>2018</b> , 11, 691-702	3.9	3
42	A multi-scale wavelet-based temperature and emissivity separation algorithm for hyperspectral thermal infrared data. <i>International Journal of Remote Sensing</i> , <b>2018</b> , 39, 8092-8112	3.1	11
41	Estimation of High Spatial-Resolution Clear-Sky Land Surface-Upwelling Longwave Radiation from VIIRS/S-NPP Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 253	5	7
40	Evaluating Eight Global Reanalysis Products for Atmospheric Correction of Thermal Infrared Sensor Application to Landsat 8 TIRS10 Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 474	5	20
39	Feasibility of Estimating Cloudy-Sky Surface Longwave Net Radiation Using Satellite-Derived Surface Shortwave Net Radiation. <i>Remote Sensing</i> , <b>2018</b> , 10, 596	5	8
38	An efficient hybrid method for estimating clear-sky surface downward longwave radiation from MODIS data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 2616-2630	4.4	27
37	Cross-satellite comparison of operational land surface temperature products derived from MODIS and ASTER data over bare soil surfaces. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2017</b> , 126, 1-10	11.8	55
36	Improving global terrestrial evapotranspiration estimation using support vector machine by integrating three process-based algorithms. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 242, 55-74	5.8	64
35	A simple temperature domain two-source model for estimating agricultural field surface energy fluxes from Landsat images. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 5211-5236	4.4	32

34	A Framework for Estimating the 30 $\mu$ m Thermal-Infrared Broadband Emissivity From Landsat Surface Reflectance Data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 11,405-11,421	4.4	8
33	Differences in estimating terrestrial water flux from three satellite-based Priestley-Taylor algorithms. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2017</b> , 56, 1-12	7.3	19
32	A Lookup Table-Based Method for Estimating Sea Surface Hemispherical Broadband Emissivity Values (8 $\mu$ 3.5 $\mu$ m). <i>Remote Sensing</i> , <b>2017</b> , 9, 245	5	7
31	Estimating Land Surface Temperature from Feng Yun-3C/MERSI Data Using a New Land Surface Emissivity Scheme. <i>Remote Sensing</i> , <b>2017</b> , 9, 1247	5	22
30	Integrating ASTER and GLASS broadband emissivity products using a multi-resolution Kalman filter. <i>International Journal of Digital Earth</i> , <b>2016</b> , 9, 1098-1116	3.9	10
29	Estimating the Hemispherical Broadband Longwave Emissivity of Global Vegetated Surfaces Using a Radiative Transfer Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 905-917	8.1	37
28	Global Estimates for High-Spatial-Resolution Clear-Sky Land Surface Upwelling Longwave Radiation From MODIS Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 4115-4129	8.1	29
27	PMODTRAN: a parallel implementation based on MODTRAN for massive remote sensing data processing. <i>International Journal of Digital Earth</i> , <b>2016</b> , 9, 819-834	3.9	19
26	Evaluation of the Reanalysis Surface Incident Shortwave Radiation Products from NCEP, ECMWF, GSFC, and JMA Using Satellite and Surface Observations. <i>Remote Sensing</i> , <b>2016</b> , 8, 225	5	84
25	Estimating clear-sky land surface longwave upwelling radiation from MODIS data using a hybrid method. <i>International Journal of Remote Sensing</i> , <b>2016</b> , 37, 1747-1761	3.1	5
24	A satellite-based hybrid algorithm to determine the Priestley-Taylor parameter for global terrestrial latent heat flux estimation across multiple biomes. <i>Remote Sensing of Environment</i> , <b>2015</b> , 165, 216-233	13.2	71
23	Estimating the broadband longwave emissivity of global bare soil from the MODIS shortwave albedo product. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 614-634	4.4	38
22	Obtaining global land-surface broadband emissivity from MODIS collection 5 spectral albedos using a dynamic learning neural network. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 1395-1416	3.1	2
21	Estimation of the terrestrial water budget over northern China by merging multiple datasets. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 50-68	6	19
20	A Comparative Study of Three Land Surface Broadband Emissivity Datasets from Satellite Data. <i>Remote Sensing</i> , <b>2014</b> , 6, 111-134	5	22
19	Bayesian multimodel estimation of global terrestrial latent heat flux from eddy covariance, meteorological, and satellite observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 4521-4545	4.4	93
18	Impacts of Deforestation and Climate Variability on Terrestrial Evapotranspiration in Subarctic China. <i>Forests</i> , <b>2014</b> , 5, 2542-2560	2.8	7
17	Validation and Application of the Modified Satellite-Based Priestley-Taylor Algorithm for Mapping Terrestrial Evapotranspiration. <i>Remote Sensing</i> , <b>2014</b> , 6, 880-904	5	25

16	Eco-geological environment assessment of Datong Basin using satellite remote sensing <b>2014</b> ,		1
15	Validation of the moderate-resolution imaging spectroradiometer land surface emissivity products over the Taklimakan Desert. <i>Journal of Applied Remote Sensing</i> , <b>2014</b> , 8, 083675	1.4	8
14	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 499-503	4.1	22
13	Longwave Emissivity. <i>SpringerBriefs in Earth Sciences</i> , <b>2014</b> , 73-121	0.5	3
12	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 2619-2631	8.1	26
11	Estimating the Optimal Broadband Emissivity Spectral Range for Calculating Surface Longwave Net Radiation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2013</b> , 10, 401-405	4.1	91
10	Estimating global land surface broadband thermal-infrared emissivity using advanced very high resolution radiometer optical data. <i>International Journal of Digital Earth</i> , <b>2013</b> , 6, 34-49	3.9	23
9	MODIS-driven estimation of terrestrial latent heat flux in China based on a modified Priestley-Taylor algorithm. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 171-172, 187-202	5.8	138
8	A long-term Global Land Surface Satellite (GLASS) data-set for environmental studies. <i>International Journal of Digital Earth</i> , <b>2013</b> , 6, 5-33	3.9	294
7	The Global Land Surface Satellite (GLASS) Remote Sensing Data Processing System and Products. <i>Remote Sensing</i> , <b>2013</b> , 5, 2436-2450	5	51
6	Temperature and Emissivity Separation From Ground-Based MIR Hyperspectral Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 1473-1484	8.1	18
5	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> , 48, 1588-1597	8.1	73
4	Comparison of Radiative Transfer Models for Simulating Snow Surface Thermal Infrared Emissivity. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2010</b> , 3, 323-336	4.7	33
3	Correlation-based temperature and emissivity separation algorithm. <i>Science in China Series D: Earth Sciences</i> , <b>2008</b> , 51, 357-369		24
2	ALGORITHM STUDY ON SOIL MID-INFRARED EMISSIVITY EXTRACTION. <i>Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves</i> , <b>2008</b> , 27, 21-26	0	
1	Estimating high-spatial resolution surface daily longwave radiation from the instantaneous Global Land Surface Satellite (GLASS) longwave radiation product. <i>International Journal of Digital Earth</i> , 1-31	3.9	2