Kun Jia

List of Publications by Year
in descending order

116 papers	3,813 citations	136950 32 h-index	144013 57 g-index
119 all docs	119 docs citations	119 times ranked	3325 citing authors

#	Article	IF	Citations
1	The Global Land Surface Satellite (GLASS) Product Suite. Bulletin of the American Meteorological Society, 2021, 102, E323-E337.	3.3	203
2	MODIS-driven estimation of terrestrial latent heat flux in China based on a modified Priestleyâ€"Taylor algorithm. Agricultural and Forest Meteorology, 2013, 171-172, 187-202.	4.8	193
3	Optimization of Causative Factors for Landslide Susceptibility Evaluation Using Remote Sensing and GIS Data in Parts of Niigata, Japan. PLoS ONE, 2015, 10, e0133262.	2.5	167
4	Fractional vegetation cover estimation algorithm for Chinese GF-1 wide field view data. Remote Sensing of Environment, 2016, 177, 184-191.	11.0	167
5	Land cover classification using Landsat 8 Operational Land Imager data in Beijing, China. Geocarto International, 2014, 29, 941-951.	3.5	161
6	Bayesian multimodel estimation of global terrestrial latent heat flux from eddy covariance, meteorological, and satellite observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4521-4545.	3.3	146
7	Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4787-4796.	6.3	137
8	Land Cover Classification of Landsat Data with Phenological Features Extracted from Time Series MODIS NDVI Data. Remote Sensing, 2014, 6, 11518-11532.	4.0	128
9	Evaluation of Spatiotemporal Variations of Global Fractional Vegetation Cover Based on GIMMS NDVI Data from 1982 to 2011. Remote Sensing, 2014, 6, 4217-4239.	4.0	125
10	Spatio-temporal changes of ecological vulnerability across the Qinghai-Tibetan Plateau. Ecological Indicators, 2021, 123, 107274.	6.3	112
11	Land cover classification of finer resolution remote sensing data integrating temporal features from time series coarser resolution data. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 93, 49-55.	11.1	100
12	Improving global terrestrial evapotranspiration estimation using support vector machine by integrating three process-based algorithms. Agricultural and Forest Meteorology, 2017, 242, 55-74.	4.8	96
13	A satellite-based hybrid algorithm to determine the Priestleyâ€"Taylor parameter for global terrestrial latent heat flux estimation across multiple biomes. Remote Sensing of Environment, 2015, 165, 216-233.	11.0	92
14	Detection and attribution of changes in hydrological cycle over the Three-North region of China: Climate change versus afforestation effect. Agricultural and Forest Meteorology, 2015, 203, 74-87.	4.8	78
15	Crop classification using multi-configuration SAR data in the North China Plain. International Journal of Remote Sensing, 2012, 33, 170-183.	2.9	75
16	Spatial distribution characteristics of the COVID-19 pandemic in Beijing and its relationship with environmental factors. Science of the Total Environment, 2021, 761, 144257.	8.0	71
17	Forest cover classification using Landsat ETM+ data and time series MODIS NDVI data. International Journal of Applied Earth Observation and Geoinformation, 2014, 33, 32-38.	2.8	61
18	Comparison of Four Machine Learning Methods for Generating the GLASS Fractional Vegetation Cover Product from MODIS Data. Remote Sensing, 2016, 8, 682.	4.0	54

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19	Estimating Surface Downward Shortwave Radiation over China Based on the Gradient Boosting Decision Tree Method. Remote Sensing, 2018, 10, 185.	4.0	52
20	Crop classification using HJ satellite multispectral data in the North China Plain. Journal of Applied Remote Sensing, 2013, 7, 073576.	1.3	48
21	Assessment of Sentinel-2 MSI Spectral Band Reflectances for Estimating Fractional Vegetation Cover. Remote Sensing, 2018, 10, 1927.	4.0	48
22	A simple temperature domain two-source model for estimating agricultural field surface energy fluxes from Landsat images. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5211-5236.	3.3	43
23	Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. Journal of Hydrology, 2017, 553, 508-526.	5.4	41
24	Long-Term Global Land Surface Satellite (GLASS) Fractional Vegetation Cover Product Derived From MODIS and AVHRR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 508-518.	4.9	41
25	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
26	Leaf Area Index Estimation Algorithm for GF-5 Hyperspectral Data Based on Different Feature Selection and Machine Learning Methods. Remote Sensing, 2020, 12, 2110.	4.0	41
27	Vegetation classification method with biochemical composition estimated from remote sensing data. International Journal of Remote Sensing, 2011, 32, 9307-9325.	2.9	40
28	Estimation of surface downward shortwave radiation over China from AVHRR data based on four machine learning methods. Solar Energy, 2019, 177, 32-46.	6.1	39
29	Empirical estimation of daytime net radiation from shortwave radiation and ancillary information. Agricultural and Forest Meteorology, 2015, 211-212, 23-36.	4.8	38
30	Estimating Fractional Vegetation Cover From Landsat-7 ETM+ Reflectance Data Based on a Coupled Radiative Transfer and Crop Growth Model. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5539-5546.	6.3	37
31	GLASS Daytime All-Wave Net Radiation Product: Algorithm Development and Preliminary Validation. Remote Sensing, 2016, 8, 222.	4.0	36
32	Spatial and Decadal Variations in Potential Evapotranspiration of China Based on Reanalysis Datasets during 1982–2010. Atmosphere, 2014, 5, 737-754.	2.3	33
33	A Robust Algorithm for Estimating Surface Fractional Vegetation Cover from Landsat Data. Remote Sensing, 2017, 9, 857.	4.0	32
34	Validation of Global LAnd Surface Satellite (GLASS) fractional vegetation cover product from MODIS data in an agricultural region. Remote Sensing Letters, 2018, 9, 847-856.	1.4	32
35	Multi-scale segmentation approach for object-based land-cover classification using high-resolution imagery. Remote Sensing Letters, 2014, 5, 73-82.	1.4	31
36	Validation and Application of the Modified Satellite-Based Priestley-Taylor Algorithm for Mapping Terrestrial Evapotranspiration. Remote Sensing, 2014, 6, 880-904.	4.0	29

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37	Automatic land-cover update approach integrating iterative training sample selection and a Markov Random Field model. Remote Sensing Letters, 2014, 5, 148-156.	1.4	29
38	Height Extraction of Maize Using Airborne Full-Waveform LIDAR Data and a Deconvolution Algorithm. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1978-1982.	3.1	28
39	Reconstruction of Long-Term Temporally Continuous NDVI and Surface Reflectance From AVHRR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5551-5568.	4.9	28
40	Estimation of the terrestrial water budget over northern China by merging multiple datasets. Journal of Hydrology, 2014, 519, 50-68.	5.4	26
41	Spatio-Temporal Analysis and Uncertainty of Fractional Vegetation Cover Change over Northern China during 2001â€"2012 Based on Multiple Vegetation Data Sets. Remote Sensing, 2018, 10, 549.	4.0	26
42	Estimation of Surface Downward Shortwave Radiation over China from Himawari-8 AHI Data Based on Random Forest. Remote Sensing, 2020, 12, 181.	4.0	26
43	Assessment and simulation of global terrestrial latent heat flux by synthesis of CMIP5 climate models and surface eddy covariance observations. Agricultural and Forest Meteorology, 2016, 223, 151-167.	4.8	25
44	Generating High Spatio-Temporal Resolution Fractional Vegetation Cover by Fusing GF-1 WFV and MODIS Data. Remote Sensing, 2019, 11, 2324.	4.0	25
45	Fusion of Five Satellite-Derived Products Using Extremely Randomized Trees to Estimate Terrestrial Latent Heat Flux over Europe. Remote Sensing, 2020, 12, 687.	4.0	24
46	Fractional Vegetation Cover Estimation Method Through Dynamic Bayesian Network Combining Radiative Transfer Model and Crop Growth Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7442-7450.	6.3	23
47	Combining Estimation of Green Vegetation Fraction in an Arid Region from Landsat 7 ETM+ Data. Remote Sensing, 2017, 9, 1121.	4.0	23
48	Crop type identification by integration of high-spatial resolution multispectral data with features extracted from coarse-resolution time-series vegetation index data. International Journal of Remote Sensing, 2014, 35, 6076-6088.	2.9	22
49	Differences in estimating terrestrial water flux from three satellite-based Priestley-Taylor algorithms. International Journal of Applied Earth Observation and Geoinformation, 2017, 56, 1-12.	2.8	21
50	MODIS-Based Estimation of Terrestrial Latent Heat Flux over North America Using Three Machine Learning Algorithms. Remote Sensing, 2017, 9, 1326.	4.0	21
51	Global Fractional Vegetation Cover Estimation Algorithm for VIIRS Reflectance Data Based on Machine Learning Methods. Remote Sensing, 2018, 10, 1648.	4.0	20
52	Spatiotemporal Comparison and Validation of Three Global-Scale Fractional Vegetation Cover Products. Remote Sensing, 2019, 11, 2524.	4.0	20
53	Maize acreage estimation using ENVISAT MERIS and CBERS-02B CCD data in the North China Plain. Computers and Electronics in Agriculture, 2011, 78, 208-214.	7.7	19
54	Validation of the Surface Daytime Net Radiation Product From Version 4.0 GLASS Product Suite. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 509-513.	3.1	19

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55	Generating spatiotemporally consistent fractional vegetation cover at different scales using spatiotemporal fusion and multiresolution tree methods. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 214-229.	11.1	19
56	Fractional Forest Cover Changes in Northeast China From 1982 to 2011 and Its Relationship With Climatic Variations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 775-783.	4.9	18
57	Evaluation of a satellite-derived model parameterized by three soil moisture constraints to estimate terrestrial latent heat flux in the Heihe River basin of Northwest China. Science of the Total Environment, 2019, 695, 133787.	8.0	17
58	DNN-MET: A deep neural networks method to integrate satellite-derived evapotranspiration products, eddy covariance observations and ancillary information. Agricultural and Forest Meteorology, 2021, 308-309, 108582.	4.8	17
59	Spectral Discrimination of Opium Poppy Using Field Spectrometry. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3414-3422.	6.3	16
60	Opium poppy monitoring with remote sensing in North Myanmar. International Journal of Drug Policy, 2011, 22, 278-284.	3.3	16
61	An Empirical Orthogonal Function-Based Algorithm for Estimating Terrestrial Latent Heat Flux from Eddy Covariance, Meteorological and Satellite Observations. PLoS ONE, 2016, 11, e0160150.	2.5	16
62	Satellite-Derived Spatiotemporal Variations in Evapotranspiration over Northeast China during 1982â€"2010. Remote Sensing, 2017, 9, 1140.	4.0	14
63	A Time-Efficient Fractional Vegetation Cover Estimation Method Using the Dynamic Vegetation Growth Information From Time Series GLASS FVC Product. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1672-1676.	3.1	14
64	Estimating Surface Downward Longwave Radiation Using Machine Learning Methods. Atmosphere, 2020, 11, 1147.	2.3	14
65	Spatiotemporal Distribution of Zika Virus and Its Spatially Heterogeneous Relationship with the Environment. International Journal of Environmental Research and Public Health, 2021, 18, 290.	2.6	12
66	Assessment of surface downward longwave radiation in CMIP6 with comparison to observations and CMIP5. Atmospheric Research, 2022, 270, 106056.	4.1	12
67	The Global LAnd Surface Satellite (GLASS) evapotranspiration product Version 5.0: Algorithm development and preliminary validation. Journal of Hydrology, 2022, 610, 127990.	5.4	12
68	Winter wheat biomass estimation using high temporal and spatial resolution satellite data combined with a light use efficiency model. Geocarto International, 2015, 30, 258-269.	3.5	11
69	Land use and land cover classification using Chinese GF-2 multispectral data in a region of the North China Plain. Frontiers of Earth Science, 2019, 13, 327-335.	2.1	11
70	Merging the MODIS and Landsat Terrestrial Latent Heat Flux Products Using the Multiresolution Tree Method. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2811-2823.	6.3	11
71	A New Long-Term Downward Surface Solar Radiation Dataset over China from 1958 to 2015. Sensors, 2020, 20, 6167.	3.8	11
72	Improving the spatiotemporal fusion accuracy of fractional vegetation cover in agricultural regions by combining vegetation growth models. International Journal of Applied Earth Observation and Geoinformation, 2021, 101, 102362.	2.8	11

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73	Satellite Detection of Water Stress Effects on Terrestrial Latent Heat Flux With MODIS Shortwave Infrared Reflectance Data. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,410.	3.3	10
74	Estimation of Daily Terrestrial Latent Heat Flux with High Spatial Resolution from MODIS and Chinese GF-1 Data. Sensors, 2020, 20, 2811.	3.8	10
75	Trends and Variability of Atmospheric Downward Longwave Radiation Over China From 1958 to 2015. Earth and Space Science, 2021, 8, e2020EA001370.	2.6	10
76	A Novel NIRâ€"Red Spectral Domain Evapotranspiration Model From the Chinese GF-1 Satellite: Application to the Huailai Agricultural Region of China. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4105-4119.	6.3	10
77	Extensive Evaluation of a Continental-Scale High-Resolution Hydrological Model Using Remote Sensing and Ground-Based Observations. Remote Sensing, 2021, 13, 1247.	4.0	10
78	Fractional Vegetation Cover Estimation Algorithm for FY-3B Reflectance Data Based on Random Forest Regression Method. Remote Sensing, 2021, 13, 2165.	4.0	10
79	Improving leaf area index estimation accuracy of wheat by involving leaf chlorophyll content information. Computers and Electronics in Agriculture, 2022, 196, 106902.	7.7	10
80	An effective biophysical indicator for opium yield estimation. Computers and Electronics in Agriculture, 2011, 75, 272-277.	7.7	9
81	Leaf Area Index Estimation Using Chinese GF-1 Wide Field View Data in an Agriculture Region. Sensors, 2017, 17, 1593.	3.8	9
82	Long-Term Spatiotemporal Dynamics of Terrestrial Biophysical Variables in the Three-River Headwaters Region of China from Satellite and Meteorological Datasets. Remote Sensing, 2019, 11, 1633.	4.0	9
83	Direct Estimation of Forest Leaf Area Index based on Spectrally Corrected Airborne LiDAR Pulse Penetration Ratio. Remote Sensing, 2020, 12, 217.	4.0	9
84	Discrepancies in the Simulated Global Terrestrial Latent Heat Flux from GLASS and MERRA-2 Surface Net Radiation Products. Remote Sensing, 2020, 12, 2763.	4.0	9
85	A novel TIR-derived three-source energy balance model for estimating daily latent heat flux in mainland China using an all-weather land surface temperature product. Agricultural and Forest Meteorology, 2022, 323, 109066.	4.8	9
86	Impacts of Deforestation and Climate Variability on Terrestrial Evapotranspiration in Subarctic China. Forests, 2014, 5, 2542-2560.	2.1	8
87	Multi-temporal remote sensing data applied in automatic land cover update using iterative training sample selection and Markov Random Field model. Geocarto International, 2015, 30, 882-893.	3.5	8
88	Assessing the Remotely Sensed Evaporative Drought Index for Drought Monitoring over Northeast China. Remote Sensing, 2019, 11, 1960.	4.0	8
89	Fractional vegetation cover estimation in heterogeneous areas by combining a radiative transfer model and a dynamic vegetation model. International Journal of Digital Earth, 2020, 13, 487-503.	3.9	8
90	A Robust Method for Generating High-Spatiotemporal-Resolution Surface Reflectance by Fusing MODIS and Landsat Data. Remote Sensing, 2020, 12, 2312.	4.0	8

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91	Identifying crown areas in an undulating area planted with eucalyptus using unmanned aerial vehicle near-infrared imagery. Remote Sensing Letters, 2016, 7, 561-570.	1.4	7
92	Fractional vegetation cover estimation based on soil and vegetation lines in a corn-dominated area. Geocarto International, 2017, 32, 531-540.	3.5	6
93	Cross-Comparative Analysis of GF-1 Wide Field View and Landsat-7 Enhanced Thematic Mapper Plus Data. Journal of Applied Spectroscopy, 2017, 84, 829-836.	0.7	6
94	Evaluation of Bayesian Multimodel Estimation in Surface Incident Shortwave Radiation Simulation over High Latitude Areas. Remote Sensing, 2019, 11, 1776.	4.0	6
95	Fractional Vegetation Cover Estimation Algorithm Based on Recurrent Neural Network for MODIS 250 m Reflectance Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6532-6543.	4.9	6
96	Estimation of the All-Wave All-Sky Land Surface Daily Net Radiation at Mid-Low Latitudes from MODIS Data Based on ERA5 Constraints. Remote Sensing, 2022, 14, 33.	4.0	6
97	Evaluation of three satellite-based latent heat flux algorithms over forest ecosystems using eddy covariance data. Environmental Monitoring and Assessment, 2015, 187, 382.	2.7	5
98	Reconstructing Missing Information of Remote Sensing Data Contaminated by Large and Thick Clouds Based on an Improved Multitemporal Dictionary Learning Method. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	5
99	Simplified Priestley–Taylor Model to Estimate Land-Surface Latent Heat of Evapotranspiration from Incident Shortwave Radiation, Satellite Vegetation Index, and Air Relative Humidity. Remote Sensing, 2021, 13, 902.	4.0	5
100	Smartphone Digital Photography for Fractional Vegetation Cover Estimation. Photogrammetric Engineering and Remote Sensing, 2022, 88, 303-310.	0.6	5
101	Spatial and decadal variations in satellite-based terrestrial evapotranspiration and drought over Inner Mongolia Autonomous Region of China during 1982–2009. Journal of Earth System Science, 2017, 126, 1.	1.3	4
102	ANN-Based Estimation of Low-Latitude Monthly Ocean Latent Heat Flux by Ensemble Satellite and Reanalysis Products. Sensors, 2020, 20, 4773.	3.8	4
103	High-spatiotemporal resolution mapping of spatiotemporally continuous atmospheric CO2 concentrations over the global continent. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102743.	2.8	4
104	A global long-term ocean surface daily/0.05° net radiation product from 1983–2020. Scientific Data, 2022, 9, .	5.3	4
105	Quantification of the urbanization impacts on solar dimming and brightening over China. Environmental Research Letters, 2022, 17, 084001.	5.2	4
106	Land-cover classification using multi-temporal GF-1 wide field view data. International Journal of Remote Sensing, 2018, 39, 6914-6930.	2.9	3
107	Estimation of High-Resolution Global Monthly Ocean Latent Heat Flux from MODIS SST Product and AMSR-E Data. Advances in Meteorology, 2020, 2020, 1-19.	1.6	3
108	A framework for regional ecosystem authenticity evaluation–a case study on the Qinghai-Tibet Plateau of China. Global Ecology and Conservation, 2021, 31, e01849.	2.1	3

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109	A New Empirical Estimation Scheme for Daily Net Radiation at the Ocean Surface. Remote Sensing, 2021, 13, 4170.	4.0	3
110	Evaluation of Surface Upward Longwave Radiation in the CMIP6 Models with Ground and Satellite Observations. Remote Sensing, 2021, 13, 4464.	4.0	3
111	Multi-scale object-based measurement of arid plant community structure. International Journal of Remote Sensing, 2016, 37, 2168-2179.	2.9	2
112	Integrating Latent Heat Flux Products from MODIS and Landsat Data Using Multi-Resolution Kalman Filter Method in the Midstream of Heihe River Basin of Northwest China. Remote Sensing, 2019, 11, 1787.	4.0	2
113	Evaluation of Downward Shortwave Radiation Estimations Over Tropical Ocean Surface Based on Bayesian Model Averaging Method. , 2020, , .		2
114	Quantification of Cannabinoid Content in Cannabis. Journal of Applied Spectroscopy, 2015, 82, 628-633.	0.7	1
115	Satellite evidence for no change in terrestrial latent heat flux in the Three-River Headwaters region of China over the past three decades. Journal of Earth System Science, 2016, 125, 1245-1253.	1.3	1
116	Contributors of the second edition. , 2020, , ix-xiii.		0