

# Zhiqiang Xiao

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

5,562  
citations

201575

27  
h-index

106281

65  
g-index

71  
all docs

71  
docs citations

71  
times ranked

5938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795.	8.1	1,675
2	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019, 5, eaax1396.	4.7	755
3	Use of General Regression Neural Networks for Generating the GLASS Leaf Area Index Product From Time-Series MODIS Surface Reflectance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 209-223.	2.7	486
4	A long-term Global LAnd Surface Satellite (GLASS) data-set for environmental studies. <i>International Journal of Digital Earth</i> , 2013, 6, 5-33.	1.6	385
5	Long-Time-Series Global Land Surface Satellite Leaf Area Index Product Derived From MODIS and AVHRR Surface Reflectance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 5301-5318.	2.7	297
6	The Global Land Surface Satellite (GLASS) Product Suite. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E323-E337.	1.7	203
7	Characterization and intercomparison of global moderate resolution leaf area index (LAI) products: Analysis of climatologies and theoretical uncertainties. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 529-548.	1.3	149
8	A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 2409-2425.	2.7	138
9	Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 4787-4796.	2.7	137
10	Real-time retrieval of Leaf Area Index from MODIS time series data. <i>Remote Sensing of Environment</i> , 2011, 115, 97-106.	4.6	96
11	Evaluation of four long time-series global leaf area index products. <i>Agricultural and Forest Meteorology</i> , 2017, 246, 218-230.	1.9	90
12	Retrieval of leaf area index using temporal, spectral, and angular information from multiple satellite data. <i>Remote Sensing of Environment</i> , 2014, 145, 25-37.	4.6	83
13	Estimating the fraction of absorbed photosynthetically active radiation from the MODIS data based GLASS leaf area index product. <i>Remote Sensing of Environment</i> , 2015, 171, 105-117.	4.6	77
14	A Temporally Integrated Inversion Method for Estimating Leaf Area Index From MODIS Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 2536-2545.	2.7	66
15	Evaluation of MODIS and two reanalysis aerosol optical depth products over AERONET sites. <i>Atmospheric Research</i> , 2019, 220, 75-80.	1.8	64
16	Bayesian Method for Building Frequent Landsat-Like NDVI Datasets by Integrating MODIS and Landsat NDVI. <i>Remote Sensing</i> , 2016, 8, 452.	1.8	61
17	Estimation of Global Vegetation Productivity from Global LAnd Surface Satellite Data. <i>Remote Sensing</i> , 2018, 10, 327.	1.8	58
18	Long-Term Global Land Surface Satellite (GLASS) Fractional Vegetation Cover Product Derived From MODIS and AVHRR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 508-518.	2.3	41

#	ARTICLE	IF	CITATIONS
19	Estimating the Fractional Vegetation Cover from GLASS Leaf Area Index Product. <i>Remote Sensing</i> , 2016, 8, 337.	1.8	37
20	GLASS Daytime All-Wave Net Radiation Product: Algorithm Development and Preliminary Validation. <i>Remote Sensing</i> , 2016, 8, 222.	1.8	36
21	Consistent estimation of multiple parameters from MODIS top of atmosphere reflectance data using a coupled soil-canopy-atmosphere radiative transfer model. <i>Remote Sensing of Environment</i> , 2016, 184, 40-57.	4.6	36
22	A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3178-3197.	2.7	35
23	Evaluation of Three Long Time Series for Global Fraction of Absorbed Photosynthetically Active Radiation (FAPAR) Products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5509-5524.	2.7	33
24	Surface Daytime Net Radiation Estimation Using Artificial Neural Networks. <i>Remote Sensing</i> , 2014, 6, 11031-11050.	1.8	32
25	Evaluation of topographic effects on multiscale leaf area index estimation using remotely sensed observations from multiple sensors. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 154, 176-188.	4.9	29
26	New Global MuSyQ GPP/NPP Remote Sensing Products From 1981 to 2018. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 5596-5612.	2.3	29
27	Reconstruction of Long-Term Temporally Continuous NDVI and Surface Reflectance From AVHRR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 5551-5568.	2.3	28
28	Evaluation and Comparison of Light Use Efficiency and Gross Primary Productivity Using Three Different Approaches. <i>Remote Sensing</i> , 2020, 12, 1003.	1.8	26
29	Reconstruction of Satellite-Retrieved Land-Surface Reflectance Based on Temporally-Continuous Vegetation Indices. <i>Remote Sensing</i> , 2015, 7, 9844-9864.	1.8	25
30	A Method for Consistent Estimation of Multiple Land Surface Parameters From MODIS Top-of-Atmosphere Time Series Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5158-5173.	2.7	25
31	Simultaneous inversion of multiple land surface parameters from MODIS optical-thermal observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 128, 240-254.	4.9	24
32	Retrieval of Leaf Area Index (LAI) and Fraction of Absorbed Photosynthetically Active Radiation (FAPAR) from VIIRS Time-Series Data. <i>Remote Sensing</i> , 2016, 8, 351.	1.8	23
33	Spatially and Temporally Complete Satellite Soil Moisture Data Based on a Data Assimilation Method. <i>Remote Sensing</i> , 2016, 8, 49.	1.8	22
34	Performance Evaluation of Machine Learning Methods for Leaf Area Index Retrieval from Time-Series MODIS Reflectance Data. <i>Sensors</i> , 2017, 17, 81.	2.1	20
35	Validation of the Surface Daytime Net Radiation Product From Version 4.0 GLASS Product Suite. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 509-513.	1.4	19
36	GBRT-Based Estimation of Terrestrial Latent Heat Flux in the Haihe River Basin from Satellite and Reanalysis Datasets. <i>Remote Sensing</i> , 2021, 13, 1054.	1.8	16

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37	Simultaneous Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo From Multiple-Satellite Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4334-4354.	2.7	14
38	Evaluation of the version 5.0 global land surface satellite (GLASS) leaf area index product derived from MODIS data. <i>International Journal of Remote Sensing</i> , 2020, 41, 9140-9160.	1.3	14
39	Multiscale Estimation of Leaf Area Index from Satellite Observations Based on an Ensemble Multiscale Filter. <i>Remote Sensing</i> , 2016, 8, 229.	1.8	13
40	Generation of High Resolution Vegetation Productivity from a Downscaling Method. <i>Remote Sensing</i> , 2018, 10, 1748.	1.8	13
41	Simulating spatially distributed solar-induced chlorophyll fluorescence using a BEPS-SCOPE coupling framework. <i>Agricultural and Forest Meteorology</i> , 2020, 295, 108169.	1.9	13
42	Variational retrieval of leaf area index from MODIS time series data: examples from the Heihe river basin, north-west China. <i>International Journal of Remote Sensing</i> , 2012, 33, 730-745.	1.3	11
43	Extended Data-Based Mechanistic Method for Improving Leaf Area Index Time Series Estimation with Satellite Data. <i>Remote Sensing</i> , 2017, 9, 533.	1.8	11
44	Simultaneous Estimation of Multiple Land-Surface Parameters From VIIRS Optical-Thermal Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 156-160.	1.4	10
45	Sequential Method with Incremental Analysis Update to Retrieve Leaf Area Index from Time Series MODIS Reflectance Data. <i>Remote Sensing</i> , 2014, 6, 9194-9212.	1.8	9
46	A Multiscale Assimilation Approach to Improve Fine-Resolution Leaf Area Index Dynamics. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8153-8168.	2.7	9
47	Exploration of Machine Learning Techniques in Emulating a Coupled Soil-Canopy-Atmosphere Radiative Transfer Model for Multi-Parameter Estimation From Satellite Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8522-8533.	2.7	8
48	Data-based mechanistic modelling and validation for leaf area index estimation using multi-angular remote-sensing observation time series. <i>International Journal of Remote Sensing</i> , 2014, 35, 4655-4672.	1.3	7
49	Observed Vegetation Greening and Its Relationships with Cropland Changes and Climate in China. <i>Land</i> , 2020, 9, 274.	1.2	7
50	Interannual variation of gross primary production detected from optimal convolutional neural network at multi-timescale water stress. <i>Remote Sensing in Ecology and Conservation</i> , 2022, 8, 409-425.	2.2	7
51	A Data Assimilation Method for Simultaneously Estimating the Multiscale Leaf Area Index From Time-Series Multi-Resolution Satellite Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 9344-9361.	2.7	6
52	The 4SAILT Model: An Improved 4SAIL Canopy Radiative Transfer Model for Sloping Terrain. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5515-5525.	2.7	6
53	A 250 m resolution global leaf area index product derived from MODIS surface reflectance data. <i>International Journal of Remote Sensing</i> , 2022, 43, 1409-1429.	1.3	6
54	Simplified Priestley-Taylor Model to Estimate Land-Surface Latent Heat of Evapotranspiration from Incident Shortwave Radiation, Satellite Vegetation Index, and Air Relative Humidity. <i>Remote Sensing</i> , 2021, 13, 902.	1.8	5

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55	Evaluation of county-level poverty alleviation progress by deep learning and satellite observations. Big Earth Data, 2021, 5, 576-592.	2.0	5
56	An airborne multi-angle power line inspection system. , 2007, , .		4
57	Consistent retrieval of multiple parameters from GOES-R top of atmosphere reflectance data. International Journal of Remote Sensing, 2020, 41, 7931-7957.	1.3	4
58	Multiscale approach for fusing leaf area index estimates from multiple sensors. Proceedings of SPIE, 2007, , .	0.8	3
59	Leaf area index estimation from MODIS data using the ensemble Kalman smoother method. , 2010, , .		3
60	Combining MODIS and AMSR-E observations to improve MCD43A3 short-time snow-covered Albedo estimation. Hydrological Processes, 2014, 28, 570-580.	1.1	3
61	Exploring Topographic Effects on Surface Parameters Over Rugged Terrains at Various Spatial Scales. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	3
62	Retrieval of the Leaf Area Index from Visible Infrared Imaging Radiometer Suite (VIIRS) Surface Reflectance Based on Unsupervised Domain Adaptation. Remote Sensing, 2022, 14, 1826.	1.8	3
63	An Opticalâ€“Thermal Surfaceâ€“Atmosphere Radiative Transfer Model Coupling Framework With Topographic Effects. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	2
64	SIFT: Modeling Solar-Induced Chlorophyll Fluorescence Over Sloping Terrain. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
65	Evaluation of Global Fraction of Absorbed Photosynthetically Active Radiation (FAPAR) Products at 500 m Spatial Resolution. Remote Sensing, 2022, 14, 3304.	1.8	2
66	Multiparameter Estimation From Landsat Observations With Topographic Consideration. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7353-7369.	2.7	1
67	A Canopy Radiative Transfer Model Considering Leaf Dorsoventrality. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	1
68	Estimation of Global Net Primary Productivity from 1981 to 2018 with Remote Sensing Data. , 2020, , .		1
69	Land surface parameters retrieval using time series remotely sensed observations. , 2007, , .		0
70	Simultaneous Estimation of LAI and Dynamic Model Parameters Using Dual EnKF from Time Series MODIS Data. , 2010, , .		0
71	Daily High-Resolution Land Surface Freeze/Thaw Detection Using Sentinel-1 and AMSR2 Data. Remote Sensing, 2022, 14, 2854.	1.8	0