## Biao Cao

## List of Publications by Year in descending order

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RIAO CAO

#	Article	IF	CITATIONS
1	Evaluation of the VIIRS and MODIS LST products in an arid area of Northwest China. Remote Sensing of Environment, 2014, 142, 111-121.	11.0	192
2	A review of earth surface thermal radiation directionality observing and modeling: Historical development, current status and perspectives. Remote Sensing of Environment, 2019, 232, 111304.	11.0	91
3	Temperature-Based and Radiance-Based Validation of the Collection 6 MYD11 and MYD21 Land Surface Temperature Products Over Barren Surfaces in Northwestern China. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1794-1807.	6.3	56
4	Comparison of the MuSyQ and MODIS Collection 6 Land Surface Temperature Products Over Barren Surfaces in the Heihe River Basin, China. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8081-8094.	6.3	35
5	Estimation of Upward Longwave Radiation From Vegetated Surfaces Considering Thermal Directionality. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6644-6658.	6.3	34
6	Retrieval of Leaf, Sunlit Soil, and Shaded Soil Component Temperatures Using Airborne Thermal Infrared Multiangle Observations. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4660-4671.	6.3	31
7	Evaluation of Land Surface Temperature Retrieval from FY-3B/VIRR Data in an Arid Area of Northwestern China. Remote Sensing, 2015, 7, 7080-7104.	4.0	28
8	Estimation of Surface Upward Longwave Radiation Using a Direct Physical Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4412-4426.	6.3	27
9	An analytical four-component directional brightness temperature model for crop and forest canopies. Remote Sensing of Environment, 2018, 209, 731-746.	11.0	27
10	A New Directional Canopy Emissivity Model Based on Spectral Invariants. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6911-6926.	6.3	26
11	A general framework of kernel-driven modeling in the thermal infrared domain. Remote Sensing of Environment, 2021, 252, 112157.	11.0	24
12	Directional variation in surface emissivity inferred from the MYD21 product and its influence on estimated surface upwelling longwave radiation. Remote Sensing of Environment, 2019, 228, 45-60.	11.0	22
13	Comparison of Five Slope Correction Methods for Leaf Area Index Estimation From Hemispherical Photography. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1958-1962.	3.1	19
14	Evaluation of Four Kernel-Driven Models in the Thermal Infrared Band. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5456-5475.	6.3	19
15	Modeling Directional Brightness Temperature Over Mixed Scenes of Continuous Crop and Road: A Case Study of the Heihe River Basin. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 234-238.	3.1	17
16	An improved histogram matching algorithm for the removal of striping noise in optical remote sensing imagery. Optik, 2015, 126, 4723-4730.	2.9	16
17	Evaluation of Atmospheric Correction Methods for the ASTER Temperature and Emissivity Separation Algorithm Using Ground Observation Networks in the HiWATER Experiment. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3001-3014.	6.3	16
18	A semi-empirical approach for modeling the vegetation thermal infrared directional anisotropy of canopies based on using vegetation indices. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 160, 136-148.	11.1	15

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#	Article	IF	CITATIONS
19	Modeling the directional anisotropy of fine-scale TIR emissions over tree and crop canopies based on UAV measurements. Remote Sensing of Environment, 2021, 252, 112150.	11.0	15
20	An Operational Split-Window Algorithm for Retrieving Land Surface Temperature from Geostationary Satellite Data: A Case Study on Himawari-8 AHI Data. Remote Sensing, 2020, 12, 2613.	4.0	14
21	Evaluation of Six High-Spatial Resolution Clear-Sky Surface Upward Longwave Radiation Estimation Methods with MODIS. Remote Sensing, 2020, 12, 1834.	4.0	14
22	Modeling the Temporal Variability of Thermal Emissions From Row-Planted Scenes Using a Radiosity and Energy Budget Method. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6010-6026.	6.3	13
23	Influence of emissivity angular variation on land surface temperature retrieved using the generalized split-window algorithm. International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101917.	2.8	13
24	Path Length Correction for Improving Leaf Area Index Measurements Over Sloping Terrains: A Deep Analysis Through Computer Simulation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4573-4589.	6.3	13
25	A TIR forest reflectance and transmittance (FRT) model for directional temperatures with structural and thermal stratification. Remote Sensing of Environment, 2022, 268, 112749.	11.0	13
26	An Improved Microwave Semiempirical Model for the Dielectric Behavior of Moist Soils. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6630-6644.	6.3	11
27	A Robust Inversion Algorithm for Surface Leaf and Soil Temperatures Using the Vegetation Clumping Index. Remote Sensing, 2017, 9, 780.	4.0	10
28	Analysis of the Land Surface Temperature Scaling Problem: A Case Study of Airborne and Satellite Data over the Heihe Basin. Remote Sensing, 2015, 7, 6489-6509.	4.0	9
29	Scattering Effect Contributions to the Directional Canopy Emissivity and Brightness Temperature Based on CE-P and CBT-P Models. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 957-961.	3.1	9
30	Improving HJ-1B IRS land surface temperature product using ASTER Global Emissivity Dataset. , 2016, , .		7
31	Retrieving Soil and Vegetation Temperatures From Dual-Angle and Multipixel Satellite Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5536-5549.	4.9	7
32	Fine scale optical remote sensing experiment of mixed stand over complex terrain (FOREST) in the Genhe Reserve Area: objective, observation and a case study. International Journal of Digital Earth, 2021, 14, 1411-1432.	3.9	7
33	The Effects of Tree Trunks on the Directional Emissivity and Brightness Temperatures of a Leaf-Off Forest Using a Geometric Optical Model. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5370-5386.	6.3	6
34	Modeling the Distributions of Brightness Temperatures of a Cropland Study Area Using a Model that Combines Fast Radiosity and Energy Budget Methods. Remote Sensing, 2018, 10, 736.	4.0	4
35	Convenient Measurement and Modified Model for Broadleaf Permittivity. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6986-6996.	6.3	3
36	Assessment of Five Thermal Infrared Kernel-Driven Models Using Limited Multiangle Observations. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3

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37	A Temperature and Emissivity Separation Algortihm for Chinese Gaofen-5 Satelltie Data. , 2018, , .		2
38	Modeling Directional Brightness Temperature (DBT) over Crop Canopy with Effects of Intra-Row Heterogeneity. Remote Sensing, 2020, 12, 2667.	4.0	2
39	Clear-sky land surface upward longwave radiation dataset derived from the ABI onboard the GOES–16 satellite. Big Earth Data, 0, , 1-21.	4.4	2
40	Evaluation the Spatial-Temporal Average Method in the Multi-Angle Information Extraction Based on Near Surface Observation Sensors. , 2018, , .		1
41	Addendum: Bian, Z. et al. A Robust Inversion Algorithm for Surface Leaf and Soil Temperatures Using the Vegetation Clumping Index. Remote Sens. 2017, 9, 780. Remote Sensing, 2017, 9, 1039.	4.0	0
42	Preliminary Evaluation of the Two Collection 6 Modis Land Surface Temperature Products in an Arid Area of Northwest China. , 2018, , .		0
43	An Experimental Study on Separating Temperature and Emissivity of a Nonisothermal Surface. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1610-1614.	3.1	0
44	Progresses on Thermal Radiation Directionality Modeling for Vegetation Canopy. , 2019, , .		0
45	A Combined Algorithm for Soil and Vegetation Temperatures with SLSTR Dual-Angle Data. , 2019, , .		0
46	Evaluation of the Musyq Land Surface Temperature Product in an Arid Area of Northwest China. , 2019, , .		0
47	High Temporal Resolution Land Surface Temperature Retrieval from Global Geostationary Satellite Data. , 2019, , .		0
48	A Modified Interactive Spectral Smooth Temperature Emissivity Separation Algorithm for Low-Temperature Surface. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7643-7653.	6.3	0
49	Evaluation of Eight Thermal Infrared Kernel-Driven Models Using Limited Observations. , 2021, ,		0
50	Comparison between Physical and Empirical Methods for Simulating Surface Brightness Temperature Time Series. Remote Sensing, 2022, 14, 3385.	4.0	0