

Kaitao Li

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

814
citations

471509

17
h-index

501196

28
g-index

58
all docs

58
docs citations

58
times ranked

816
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol physical and chemical properties retrieved from ground-based remote sensing measurements during heavy haze days in Beijing winter. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10171-10183.	4.9	135
2	Estimate of aerosol absorbing components of black carbon, brown carbon, and dust from ground-based remote sensing data of sun-sky radiometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6534-6543.	3.3	80
3	LGHAP: the Long-term Gap-free High-resolution Air Pollutant concentration dataset, derived via tensor-flow-based multimodal data fusion. <i>Earth System Science Data</i> , 2022, 14, 907-927.	9.9	46
4	Satellite remote sensing of atmospheric particulate matter mass concentration: Advances, challenges, and perspectives. <i>Fundamental Research</i> , 2021, 1, 240-258.	3.3	40
5	The characterization of Taklamakan dust properties using a multiwavelength Raman polarization lidar in Kashi, China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13817-13834.	4.9	37
6	A method to calculate Stokes parameters and angle of polarization of skylight from polarized CIMEL sun/sky radiometers. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 149, 334-346.	2.3	35
7	Validation of MODIS Aerosol Optical Depth Retrieval over Mountains in Central China Based on a Sun-Sky Radiometer Site of SONET. <i>Remote Sensing</i> , 2016, 8, 111.	4.0	34
8	Aerosol Optical and Microphysical Properties of Four Typical Sites of SONET in China Based on Remote Sensing Measurements. <i>Remote Sensing</i> , 2015, 7, 9928-9953.	4.0	32
9	Validation of POLDER GRASP aerosol optical retrieval over China using SONET observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 246, 106931.	2.3	32
10	Observational study of aerosol-induced impact on planetary boundary layer based on lidar and sunphotometer in Beijing. <i>Environmental Pollution</i> , 2019, 252, 897-906.	7.5	30
11	Using support vector regression to predict PM_{10} and $PM_{2.5}$. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 17, 012268.	0.3	29
12	The Fundamental Aerosol Models Over China Region: A Cluster Analysis of the Ground-Based Remote Sensing Measurements of Total Columnar Atmosphere. <i>Geophysical Research Letters</i> , 2019, 46, 4924-4932.	4.0	29
13	Retrieval of Aerosol Fine-Mode Fraction from Intensity and Polarization Measurements by PARASOL over East Asia. <i>Remote Sensing</i> , 2016, 8, 417.	4.0	26
14	Aerosol optical, microphysical, chemical and radiative properties of high aerosol load cases over the Arctic based on AERONET measurements. <i>Scientific Reports</i> , 2018, 8, 9376.	3.3	22
15	An improved algorithm for retrieving high resolution fine-mode aerosol based on polarized satellite data: Application and validation for POLDER-3. <i>Remote Sensing of Environment</i> , 2020, 247, 111894.	11.0	20
16	Aerosol solar radiative forcing near the Taklimakan Desert based on radiative transfer and regional meteorological simulations during the Dust Aerosol Observation-Kashi campaign. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10845-10864.	4.9	17
17	Improved inversion of aerosol components in the atmospheric column from remote sensing data. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12795-12811.	4.9	17
18	Simple transfer calibration method for a Cimel Sun-Moon photometer: calculating lunar calibration coefficients from Sun calibration constants. <i>Applied Optics</i> , 2016, 55, 7624.	2.1	15

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19	Evaluation of MERRA-2 Aerosol Optical and Component Properties over China Using SONET and PARASOL/GRASP Data. <i>Remote Sensing</i> , 2022, 14, 821.	4.0	15
20	Study on influence of different mixing rules on the aerosol components retrieval from ground-based remote sensing measurements. <i>Atmospheric Research</i> , 2014, 145-146, 267-278.	4.1	14
21	An adaptive atmospheric correction algorithm for the effective adjacency effect correction of submeter-scale spatial resolution optical satellite images: Application to a WorldView-3 panchromatic image. <i>Remote Sensing of Environment</i> , 2021, 259, 112412.	11.0	13
22	Calibration of the degree of linear polarization measurements of the polarized Sun-sky radiometer based on the POLBOX system. <i>Applied Optics</i> , 2018, 57, 1011.	1.8	13
23	In-Flight Calibration of GF-1/WFV Visible Channels Using Rayleigh Scattering. <i>Remote Sensing</i> , 2017, 9, 513.	4.0	10
24	Optimal Estimation Retrieval of Aerosol Fine-Mode Fraction from Ground-Based Sky Light Measurements. <i>Atmosphere</i> , 2019, 10, 196.	2.3	9
25	Retrieval of Atmospheric Fine Particulate Density Based on Merging Particle Size Distribution Measurements: Multi-Instrument Observation and Quality Control at Shouxian. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,474.	3.3	8
26	Ground-Based Polarimetric Remote Sensing of Dust Aerosol Properties in Chinese Deserts near Hexi Corridor. <i>Advances in Meteorology</i> , 2014, 2014, 1-10.	1.6	7
27	Improving Daytime Planetary Boundary Layer Height Determination from CALIOP: Validation Based on Ground-Based Lidar Station. <i>Advances in Meteorology</i> , 2017, 2017, 1-14.	1.6	7
28	Method to intercalibrate sunphotometer constants using an integrating sphere as a light source in the laboratory. <i>Applied Optics</i> , 2013, 52, 2226.	1.8	6
29	Multi-Year Analyses of Columnar Aerosol Optical and Microphysical Properties in Xi'an, a Megacity in Northwestern China. <i>Remote Sensing</i> , 2018, 10, 1169.	4.0	5
30	Sub-Mode Aerosol Volume Size Distribution and Complex Refractive Index from the Three-Year Ground-Based Measurements in Chengdu China. <i>Atmosphere</i> , 2019, 10, 46.	2.3	4
31	Aerosol Direct Radiative Effects over China Based on Long-Term Observations within the Sun-Sky Radiometer Observation Network (SONET). <i>Remote Sensing</i> , 2020, 12, 3296.	4.0	4
32	Improving the sectional Model for Simulating Aerosol Interactions and Chemistry (MOSAIC) aerosols of the Weather Research and Forecasting-Chemistry (WRF-Chem) model with the revised Gridpoint Statistical Interpolation system and multi-wavelength aerosol optical measurements: the dust aerosol observation campaign at Kashi, near the Taklimakan Desert, northwestern China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4403-4430.	4.9	4
33	Transfer method to calibrate the normalized radiance for a CE318 Sun/sky radiometer. <i>Chinese Optics Letters</i> , 2015, 13, 041001-41005.	2.9	4
34	The Effects of Local Pollution and Transport Dust on Aerosol Properties in Typical Arid Regions of Central Asia during DAO-K Measurement. <i>Atmosphere</i> , 2022, 13, 729.	2.3	3
35	Retrieval of the aerosol asymmetry factor from Sun-sky radiometer measurements: application to almucantar geometry and accuracy assessment. <i>Applied Optics</i> , 2017, 56, 9932.	1.8	2
36	Estimate of Atmospheric Columnar Aerosol Composition Based on Remote Sensing Measurements. , 2018, , .		1

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37	RETRIEVAL OF AEROSOL OPTICAL PROPERTIES FROM GROUND-BASED REMOTE SENSING MEASUREMENTS: AEROSOL ASYMMETRY FACTOR AND SINGLE SCATTERING ALBEDO. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1421-1426.	0.2	1
38	VALIDATION AND COMPARISON OF FINE-MODE AEROSOL OPTICAL DEPTH PRODUCTS BETWEEN MODIS AND POLDER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W9, 51-56.	0.2	1
39	The polarimetric characteristics of dust with irregular shapes: evaluation of the spheroid model for single particles. Atmospheric Measurement Techniques, 2022, 15, 2767-2789.	3.1	1
40	Remotely sensing chemical composition of atmospheric aerosols from ground-based radiometric and polarimetric observations. , 2012, , .		0
41	Comparison of aerosol optical properties retrieved from different ground-based sky radiance observation. , 2012, , .		0
42	Study on Aerosol Model and Sources at Zhoushan, China Using Sun-sky Photometer Observation. IOP Conference Series: Earth and Environmental Science, 2014, 17, 012030.	0.3	0
43	A new ground-based differential absorption sunphotometer for measuring atmospheric columnar CO ₂ and preliminary applications. Proceedings of SPIE, 2015, , .	0.8	0
44	A study on typical aerosol extinction profile under clear sky condition in Beijing measured by ground-based Lidar. Proceedings of SPIE, 2015, , .	0.8	0
45	Retrieval of absorptive gas columnar amounts using atmospheric hyper-spectral irradiance measurements within visible spectrum. Proceedings of SPIE, 2015, , .	0.8	0
46	Determination of nocturnal aerosol properties from a combination of lunar photometer and lidar observations. , 2015, , .		0
47	Simulation of the polarization pattern of skylight affected by mineral dust aerosol particles. , 2016, , .		0
48	Evaluation of the impact of environmental control measures during large event on atmospheric aerosol contents based on dual stations remote sensing measurements. , 2016, , .		0
49	Uncertainties of atmospheric polarimetric measurements with sun-sky radiometers induced by errors of relative orientations of polarizers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 209, 10-18.	2.3	0
50	CORRECTION OF THE TEMPERATURE EFFECT IN 1020 NM BAND OF SUN-SKY RADIOMETER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 849-852.	0.2	0