Kaitao Li

List of Publications by Year
in descending order

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	Evaluation of MERRA-2 Aerosol Optical and Component Properties over China Using SONET and PARASOL/GRASP Data. Remote Sensing, 2022, 14, 821.	4.0	15
2	LGHAP: the Long-term Gap-free High-resolution Air Pollutant concentration dataset, derived via tensor-flow-based multimodal data fusion. Earth System Science Data, 2022, 14, 907-927.	9.9	46
3	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
4	The Effects of Local Pollution and Transport Dust on Aerosol Properties in Typical Arid Regions of Central Asia during DAO-K Measurement. Atmosphere, 2022, 13, 729.	2.3	3
5	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. Atmospheric Chemistry and Physics, 2021, 21, 4403-4430.	4.9	4
6	Satellite remote sensing of atmospheric particulate matter mass concentration: Advances, challenges, and perspectives. Fundamental Research, 2021, 1, 240-258.	3.3	40
7	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. Remote Sensing of Environment, 2021, 259, 112412.	11.0	13
8	Aerosol Direct Radiative Effects over China Based on Long-Term Observations within the Sun–Sky Radiometer Observation Network (SONET). Remote Sensing, 2020, 12, 3296.	4.0	4
9	An improved algorithm for retrieving high resolution fine-mode aerosol based on polarized satellite data: Application and validation for POLDER-3. Remote Sensing of Environment, 2020, 247, 111894.	11.0	20
10	Validation of POLDER GRASP aerosol optical retrieval over China using SONET observations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 246, 106931.	2.3	32
11	Aerosol solar radiative forcing near the Taklimakan Desert based on radiative transfer and regional meteorological simulations during the Dust Aerosol Observation-Kashi campaign. Atmospheric Chemistry and Physics, 2020, 20, 10845-10864.	4.9	17
12	Improved inversion of aerosol components in the atmospheric column from remote sensing data. Atmospheric Chemistry and Physics, 2020, 20, 12795-12811.	4.9	17
13	The characterization of Taklamakan dust properties using a multiwavelength Raman polarization lidar in Kashi, China. Atmospheric Chemistry and Physics, 2020, 20, 13817-13834.	4.9	37
14	Observational study of aerosol-induced impact on planetary boundary layer based on lidar and sunphotometer in Beijing. Environmental Pollution, 2019, 252, 897-906.	7.5	30
15	Optimal Estimation Retrieval of Aerosol Fine-Mode Fraction from Ground-Based Sky Light Measurements. Atmosphere, 2019, 10, 196.	2.3	9
16	Sub-Mode Aerosol Volume Size Distribution and Complex Refractive Index from the Three-Year Ground-Based Measurements in Chengdu China. Atmosphere, 2019, 10, 46.	2.3	4
17	The Fundamental Aerosol Models Over China Region: A Cluster Analysis of the Ground–Based Remote Sensing Measurements of Total Columnar Atmosphere. Geophysical Research Letters, 2019, 46, 4924-4932.	4.0	29
18	Estimate of Atmospheric Columnar Aerosol Composition Based on Remote Sensing Measurements. , 2018, , .		1

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19	Multi-Year Analyses of Columnar Aerosol Optical and Microphysical Properties in Xi'an, a Megacity in Northwestern China. Remote Sensing, 2018, 10, 1169.	4.0	5
20	Retrieval of Atmospheric Fine Particulate Density Based on Merging Particle Size Distribution Measurements: Multi‐instrument Observation and Quality Control at Shouxian. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,474.	3.3	8
21	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
22	Aerosol optical, microphysical, chemical and radiative properties of high aerosol load cases over the Arctic based on AERONET measurements. Scientific Reports, 2018, 8, 9376.	3.3	22
23	Calibration of the degree of linear polarization measurements of the polarized Sun-sky radiometer based on the POLBOX system. Applied Optics, 2018, 57, 1011.	1.8	13
24	Retrieval of the aerosol asymmetry factor from Sun–sky radiometer measurements: application to almucantar geometry and accuracy assessment. Applied Optics, 2017, 56, 9932.	1.8	2
25	Improving Daytime Planetary Boundary Layer Height Determination from CALIOP: Validation Based on Ground-Based Lidar Station. Advances in Meteorology, 2017, 2017, 1-14.	1.6	7
26	In-Flight Calibration of GF-1/WFV Visible Channels Using Rayleigh Scattering. Remote Sensing, 2017, 9, 513.	4.0	10
27	Retrieval of Aerosol Fine-Mode Fraction from Intensity and Polarization Measurements by PARASOL over East Asia. Remote Sensing, 2016, 8, 417.	4.0	26
28	Validation of MODIS Aerosol Optical Depth Retrieval over Mountains in Central China Based on a Sun-Sky Radiometer Site of SONET. Remote Sensing, 2016, 8, 111.	4.0	34
29	Simulation of the polarization pattern of skylight affected by mineral dust aerosol particles. , 2016, , .		0
30	Evaluation of the impact of environmental control measures during large event on atmospheric aerosol contents based on dual stations remote sensing measurements. , 2016, , .		0
31	Simple transfer calibration method for a Cimel Sun–Moon photometer: calculating lunar calibration coefficients from Sun calibration constants. Applied Optics, 2016, 55, 7624.	2.1	15
32	Aerosol Optical and Microphysical Properties of Four Typical Sites of SONET in China Based on Remote Sensing Measurements. Remote Sensing, 2015, 7, 9928-9953.	4.0	32
33	A new ground-based differential absorption sunphotometer for measuring atmospheric columnar CO_2 and preliminary applications. Proceedings of SPIE, 2015, , .	0.8	0
34	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
35	Retrieval of absorptive gas columnar amounts using atmospheric hyper-spectral irradiance measurements within visible spectrum. Proceedings of SPIE, 2015, , .	0.8	0
36	Determination of nocturnal aerosol properties from a combination of lunar photometer and lidar observations. , 2015, , .		0

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37	Transfer method to calibrate the normalized radiance for a CE318 Sun/sky radiometer. Chinese Optics Letters, 2015, 13, 041001-41005.	2.9	4
38	Using support vector regression to predict PM_{10} and $PM_{2.5}$. IOP Conference Series: Earth and Environmental Science, 2014, 17, 012268.	0.3	29
39	A method to calculate Stokes parameters and angle of polarization of skylight from polarized CIMEL sun/sky radiometers. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 334-346.	2.3	35
40	Ground-Based Polarimetric Remote Sensing of Dust Aerosol Properties in Chinese Deserts near Hexi Corridor. Advances in Meteorology, 2014, 2014, 1-10.	1.6	7
41	Study on influence of different mixing rules on the aerosol components retrieval from ground-based remote sensing measurements. Atmospheric Research, 2014, 145-146, 267-278.	4.1	14
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	Estimate of aerosol absorbing components of black carbon, brown carbon, and dust from ground€based remote sensing data of sun€sky radiometers. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6534-6543.	3.3	80
44	Method to intercalibrate sunphotometer constants using an integrating sphere as a light source in the laboratory. Applied Optics, 2013, 52, 2226.	1.8	6
45	Aerosol physical and chemical properties retrieved from ground-based remote sensing measurements during heavy haze days in Beijing winter. Atmospheric Chemistry and Physics, 2013, 13, 10171-10183.	4.9	135
46	Remotely sensing chemical composition of atmospheric aerosols from ground-based radiometric and polarimetric observations. , 2012, , .		0
47	Comparison of aerosol optical properties retrieved from different ground-based sky radiance observation. , 2012, , .		0
48	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
49	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
50	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