

Zhanqing Li

List of Publications by Year in descending order

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437
papers

26,364
citations

6233

80
h-index

11581

135
g-index

569
all docs

569
docs citations

569
times ranked

13961
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of aerosols on convective clouds and precipitation. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	657
2	Aerosol and monsoon climate interactions over Asia. <i>Reviews of Geophysics</i> , 2016, 54, 866-929.	9.0	591
3	Aerosol and boundary-layer interactions and impact on air quality. <i>National Science Review</i> , 2017, 4, 810-833.	4.6	524
4	Dryland climate change: Recent progress and challenges. <i>Reviews of Geophysics</i> , 2017, 55, 719-778.	9.0	507
5	Long-term impacts of aerosols on the vertical development of clouds and precipitation. <i>Nature Geoscience</i> , 2011, 4, 888-894.	5.4	483
6	Reconstructing 1-km-resolution high-quality PM _{2.5} data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. <i>Remote Sensing of Environment</i> , 2021, 252, 112136.	4.6	429
7	Climate effects of dust aerosols over East Asian arid and semiarid regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,398.	1.2	384
8	The climatology of planetary boundary layer height in China derived from radiosonde and reanalysis data. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13309-13319.	1.9	384
9	Estimating 1-km-resolution PM _{2.5} concentrations across China using the space-time random forest approach. <i>Remote Sensing of Environment</i> , 2019, 231, 111221.	4.6	340
10	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	325
11	Improved 1-km resolution PM _{2.5} estimates across China using enhanced space-time extremely randomized trees. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3273-3289.	1.9	321
12	Uncertainties in satellite remote sensing of aerosols and impact on monitoring its long-term trend: a review and perspective. <i>Annales Geophysicae</i> , 2009, 27, 2755-2770.	0.6	290
13	Substantial convection and precipitation enhancements by ultrafine aerosol particles. <i>Science</i> , 2018, 359, 411-418.	6.0	290
14	Microphysical effects determine macrophysical response for aerosol impacts on deep convective clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4581-90.	3.3	274
15	Estimation of evaporative fraction from a combination of day and night land surface temperatures and NDVI: A new method to determine the Priestley-Taylor parameter. <i>Remote Sensing of Environment</i> , 2006, 102, 293-305.	4.6	267
16	Column aerosol optical properties and aerosol radiative forcing during a serious haze-fog month over North China Plain in 2013 based on ground-based sunphotometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2125-2138.	1.9	266
17	Dominant role by vertical wind shear in regulating aerosol effects on deep convective clouds. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	265
18	Effects of spectral response function on surface reflectance and NDVI measured with moderate resolution satellite sensors. <i>Remote Sensing of Environment</i> , 2002, 81, 1-18.	4.6	252

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19	Hotspot and NDVI Differencing Synergy (HANDS) A New Technique for Burned Area Mapping over Boreal Forest. <i>Remote Sensing of Environment</i> , 2000, 74, 362-376.	4.6	243
20	The Joint Aerosol–Monsoon Experiment: A New Challenge for Monsoon Climate Research. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 369-384.	1.7	241
21	India Is Overtaking China as the World’s Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , 2017, 7, 14304.	1.6	230
22	A review of satellite methods to derive surface shortwave irradiance. <i>Remote Sensing of Environment</i> , 1995, 51, 108-124.	4.6	228
23	Analysis of cloud layer structure in Shouxian, China using RS92 radiosonde aided by 95 GHz cloud radar. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	221
24	Delaying precipitation and lightning by air pollution over the Pearl River Delta. Part I: Observational analyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6472-6488.	1.2	212
25	Classification of summertime synoptic patterns in Beijing and their associations with boundary layer structure affecting aerosol pollution. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3097-3110.	1.9	210
26	Aerosol optical properties and their radiative effects in northern China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	209
27	MODIS Collection 6.1 aerosol optical depth products over land and ocean: validation and comparison. <i>Atmospheric Environment</i> , 2019, 201, 428-440.	1.9	209
28	Multitemporal, multichannel AVHRR data sets for land biosphere studies—Artifacts and corrections. <i>Remote Sensing of Environment</i> , 1997, 60, 35-57.	4.6	202
29	A simple method to estimate actual evapotranspiration from a combination of net radiation, vegetation index, and temperature. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	200
30	Aerosol remote sensing over land: A comparison of satellite retrievals using different algorithms and instruments. <i>Atmospheric Research</i> , 2007, 85, 372-394.	1.8	196
31	Relationships between the planetary boundary layer height and surface pollutants derived from lidar observations over China: regional pattern and influencing factors. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15921-15935.	1.9	195
32	Satellite-Derived 1-km-Resolution PM ₁ Concentrations from 2014 to 2018 across China. <i>Environmental Science & Technology</i> , 2019, 53, 13265-13274.	4.6	195
33	Satellite-based detection of Canadian boreal forest fires: Development and application of the algorithm. <i>International Journal of Remote Sensing</i> , 2000, 21, 3057-3069.	1.3	185
34	Observations of boreal forest fire smoke in the stratosphere by POAM III, SAGE II, and lidar in 1998. <i>Geophysical Research Letters</i> , 2000, 27, 1407-1410.	1.5	179
35	Impact of diurnal variability and meteorological factors on the PM _{2.5} - AOD relationship: Implications for PM _{2.5} remote sensing. <i>Environmental Pollution</i> , 2017, 221, 94-104.	3.7	178
36	Estimation of SW Flux Absorbed at the Surface from TOA Reflected Flux. <i>Journal of Climate</i> , 1993, 6, 317-330.	1.2	177

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37	East Asian Study of Tropospheric Aerosols and their Impact on Regional Clouds, Precipitation, and Climate (EAST- ^{AIR} CPC). Journal of Geophysical Research D: Atmospheres, 2019, 124, 13026-13054.	1.2	175
38	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O ₃) pollution from 2013 to 2020 across China. Remote Sensing of Environment, 2022, 270, 112775.	4.6	174
39	Ozone and haze pollution weakens net primary productivity in China. Atmospheric Chemistry and Physics, 2017, 17, 6073-6089.	1.9	169
40	The ChinaHighPM10 dataset: generation, validation, and spatiotemporal variations from 2015 to 2019 across China. Environment International, 2021, 146, 106290.	4.8	168
41	Aerosol optical depth (AOD) and Å...ngstrÅm exponent of aerosols observed by the Chinese Sun Hazemeter Network from August 2004 to September 2005. Journal of Geophysical Research, 2007, 112, .	3.3	166
42	Advances in studying interactions between aerosols and monsoon in China. Science China Earth Sciences, 2016, 59, 1-16.	2.3	153
43	Aerosol impacts on clouds and precipitation in eastern China: Results from bin and bulk microphysics. Journal of Geophysical Research, 2012, 117, .	3.3	152
44	Preface to special section on East Asian Studies of Tropospheric Aerosols: An International Regional Experiment (EAST- ^{AIRE}). Journal of Geophysical Research, 2007, 112, .	3.3	151
45	The variable effect of clouds on atmospheric absorption of solar radiation. Nature, 1995, 376, 486-490.	13.7	149
46	Global climatologies of solar radiation budgets at the surface and in the atmosphere from 5 years of ERBE data. Journal of Geophysical Research, 1993, 98, 4919-4930.	3.3	147
47	Increase of wintertime fog in China: Potential impacts of weakening of the Eastern Asian monsoon circulation and increasing aerosol loading. Journal of Geophysical Research, 2010, 115, .	3.3	146
48	Substantial contribution of anthropogenic air pollution to catastrophic floods in Southwest China. Geophysical Research Letters, 2015, 42, 6066-6075.	1.5	144
49	Validation of SO ₂ retrievals from the Ozone Monitoring Instrument over NE China. Journal of Geophysical Research, 2008, 113, .	3.3	139
50	Increase of cloud droplet size with aerosol optical depth: An observation and modeling study. Journal of Geophysical Research, 2008, 113, .	3.3	138
51	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.	1.9	135
52	How well do satellite AOD observations represent the spatial and temporal variability of PM 2.5 concentration for the United States?. Atmospheric Environment, 2015, 102, 260-273.	1.9	133
53	Recent trends in aerosol optical properties derived from AERONET measurements. Atmospheric Chemistry and Physics, 2014, 14, 12271-12289.	1.9	132
54	Estimation of surface albedo from space: A parameterization for global application. Journal of Geophysical Research, 1994, 99, 8335.	3.3	129

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55	Aerosol optical properties and radiative effects in the Yangtze Delta region of China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	120
56	East Asian Studies of Tropospheric Aerosols and their Impact on Regional Climate (EAST-AIRC): An overview. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	119
57	Declining frequency of summertime local-scale precipitation over eastern China from 1970 to 2010 and its potential link to aerosols. <i>Geophysical Research Letters</i> , 2017, 44, 5700-5708.	1.5	113
58	Effects of land cover type and greenness on advanced very high resolution radiometer bidirectional reflectances: Analysis and removal. <i>Journal of Geophysical Research</i> , 1995, 100, 9179.	3.3	109
59	Estimating surface solar irradiance from satellites: Past, present, and future perspectives. <i>Remote Sensing of Environment</i> , 2019, 233, 111371.	4.6	109
60	Validation and understanding of Moderate Resolution Imaging Spectroradiometer aerosol products (C5) using ground-based measurements from the handheld Sun photometer network in China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	108
61	First observation-based estimates of cloud-free aerosol radiative forcing across China. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	108
62	Estimating fire-related parameters in boreal forest using SPOT VEGETATION. <i>Remote Sensing of Environment</i> , 2002, 82, 95-110.	4.6	106
63	Interaction Between Planetary Boundary Layer and PM2.5 Pollution in Megacities in China: a Review. <i>Current Pollution Reports</i> , 2019, 5, 261-271.	3.1	100
64	Potential aerosol indirect effects on atmospheric circulation and radiative forcing through deep convection. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	99
65	Aircraft observations of dust and pollutants over northeast China: Insight into the meteorological mechanisms of transport. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	98
66	Systematic variations of cloud top temperature and precipitation rate with aerosols over the global tropics. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8491-8498.	1.9	97
67	Genomic in situ hybridization (GISH) analyses of <i>Thinopyrum intermedium</i> , its partial amphiploid Zhong 5, and disease-resistant derivatives in wheat. <i>Theoretical and Applied Genetics</i> , 2000, 100, 344-352.	1.8	95
68	Aerosol single scattering albedo estimated across China from a combination of ground and satellite measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	94
69	Enlarging Rainfall Area of Tropical Cyclones by Atmospheric Aerosols. <i>Geophysical Research Letters</i> , 2018, 45, 8604-8611.	1.5	94
70	Aerosol characterization over the North China Plain: Haze life cycle and biomass burning impacts in summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2508-2521.	1.2	93
71	Scattering and absorbing aerosols in the climate system. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 363-379.	12.2	93
72	Automatic detection of fire smoke using artificial neural networks and threshold approaches applied to AVHRR imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1859-1870.	2.7	92

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73	In situ measurements of trace gases and aerosol optical properties at a rural site in northern China during East Asian Study of Tropospheric Aerosols: An International Regional Experiment 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	91
74	Satellite retrieval of cloud condensation nuclei concentrations by using clouds as CCN chambers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5828-5834.	3.3	91
75	On Solar Energy Disposition:A Perspective from Observation and Modeling. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 53-70.	1.7	90
76	Impacts of brown carbon from biomass burning on surface UV and ozone photochemistry in the Amazon Basin. <i>Scientific Reports</i> , 2016, 6, 36940.	1.6	90
77	Insights into aerosol chemistry during the 2015 China Victory Day parade: results from simultaneous measurements at ground level and 260â€m in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3215-3232.	1.9	90
78	Ground-Level NO ₂ Surveillance from Space Across China for High Resolution Using Interpretable Spatiotemporally Weighted Artificial Intelligence. <i>Environmental Science & Technology</i> , 2022, 56, 9988-9998.	4.6	90
79	A Near-Global Climatology of Single-Layer and Overlapped Clouds and Their Optical Properties Retrieved from Terra/MODIS Data Using a New Algorithm. <i>Journal of Climate</i> , 2005, 18, 4752-4771.	1.2	89
80	Intercomparison of shortwave radiative transfer codes and measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	88
81	Aerosol-induced changes in the vertical structure of precipitation: a perspective of TRMM precipitation radar. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13329-13343.	1.9	88
82	Estimating the vertical variation of cloud droplet effective radius using multispectral near-infrared satellite measurements. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 7-1.	3.3	87
83	Seasonal variations in aerosol optical properties over China. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	87
84	Evaluation of the Moderate Resolution Imaging Spectroradiometer aerosol products at two Aerosol Robotic Network stations in China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	86
85	Himawari-8-derived diurnal variations in ground-level PM _{2.5} ; pollution across China using the fast space-time Light Gradient Boosting Machine (LightGBM). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7863-7880.	1.9	86
86	Detection, variations and intercomparison of the planetary boundary layer depth from radiosonde, lidar and infrared spectrometer. <i>Atmospheric Environment</i> , 2013, 79, 518-528.	1.9	83
87	Global climate forcing of aerosols embodied in international trade. <i>Nature Geoscience</i> , 2016, 9, 790-794.	5.4	79
88	The significant impact of aerosol vertical structure on lower atmosphere stability and its critical role in aerosolâ€planetary boundary layer (PBL) interactions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3713-3724.	1.9	79
89	Influence of Absorbing Aerosols on the Inference of Solar Surface Radiation Budget and Cloud Absorption. <i>Journal of Climate</i> , 1998, 11, 5-17.	1.2	78
90	Satellite-based mapping of Canadian boreal forest fires: Evaluation and comparison of algorithms. <i>International Journal of Remote Sensing</i> , 2000, 21, 3071-3082.	1.3	76

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91	Estimation of cloud condensation nuclei concentration from aerosol optical quantities: influential factors and uncertainties. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 471-483.	1.9	75
92	A New Method for Detection of Cirrus Overlapping Water Clouds and Determination of Their Optical Properties. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3993-4009.	0.6	74
93	The impact of synoptic patterns on summertime ozone pollution in the North China Plain. <i>Science of the Total Environment</i> , 2020, 735, 139559.	3.9	73
94	Estimation of aerosol effects on surface irradiance based on measurements and radiative transfer model simulations in northern China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	72
95	Aerosol optical depth over the Tibetan Plateau and its relation to aerosols over the Taklimakan Desert. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	72
96	Low-level temperature inversions and their effect on aerosol condensation nuclei concentrations under different large-scale synoptic circulations. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 898-908.	1.9	72
97	An intercomparison of long-term planetary boundary layer heights retrieved from CALIPSO, ground-based lidar, and radiosonde measurements over Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3929-3943.	1.2	72
98	Optical properties of boreal forest fire smoke derived from Sun photometry. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 6-1-AAC 6-19.	3.3	71
99	Diurnal variation and the influential factors of precipitation from surface and satellite measurements in Tibet. <i>International Journal of Climatology</i> , 2014, 34, 2940-2956.	1.5	71
100	Aerosol hygroscopicity and cloud condensation nuclei activity during the AC&sup>3</sup>Exp campaign: implications for cloud condensation nuclei parameterization. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13423-13437.	1.9	71
101	The bidirectional effects of AVHRR measurements over boreal regions. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1996, 34, 1308-1322.	2.7	69
102	Optical and microphysical properties of severe haze and smoke aerosol measured by integrated remote sensing techniques in Gwangju, Korea. <i>Atmospheric Environment</i> , 2009, 43, 879-888.	1.9	69
103	Dust aerosol vertical structure measurements using three MPL lidars during 2008 China&U.S. joint dust field experiment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	68
104	Surface Net Solar Radiation Estimated from Satellite Measurements: Comparisons with Tower Observations. <i>Journal of Climate</i> , 1993, 6, 1764-1772.	1.2	66
105	Vertical profiles of NO&sub>2</sub>, SO&sub>2</sub>, HONO, HCHO, CHOCHO and aerosols derived from MAX-DOAS measurements at a rural site in the central western North China Plain and their relation to emission sources and effects of regional transport. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5417-5449.	1.9	66
106	Satellite-based PM2.5 estimation directly from reflectance at the top of the atmosphere using a machine learning algorithm. <i>Atmospheric Environment</i> , 2019, 208, 113-122.	1.9	66
107	Assessment of the Global Monthly Mean Surface Insolation Estimated from Satellite Measurements Using Global Energy Balance Archive Data. <i>Journal of Climate</i> , 1995, 8, 315-328.	1.2	65
108	Ground-based remote sensing of aerosol optical properties in one city in Northwest China. <i>Atmospheric Research</i> , 2008, 89, 194-205.	1.8	65

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109	The climate impact of aerosols on the lightning flash rate: is it detectable from long-term measurements?. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12797-12816.	1.9	65
110	Precipitation and air pollution at mountain and plain stations in northern China: Insights gained from observations and modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4793-4807.	1.2	63
111	A New Parameterization for the Determination of Solar Flux Absorbed at the Surface from Satellite Measurements. <i>Journal of Climate</i> , 1995, 8, 1615-1629.	1.2	62
112	Can interannual land surface signal be discerned in composite AVHRR data?. <i>Journal of Geophysical Research</i> , 1998, 103, 23163-23172.	3.3	61
113	Land-use change analysis in Yulin prefecture, northwestern China using remote sensing and GIS. <i>International Journal of Remote Sensing</i> , 2004, 25, 5691-5703.	1.3	61
114	Retrieving vertical profiles of water-cloud droplet effective radius: Algorithm modification and preliminary application. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	60
115	New interpretable deep learning model to monitor real-time PM2.5 concentrations from satellite data. <i>Environment International</i> , 2020, 144, 106060.	4.8	60
116	SPOT VEGETATION for characterizing boreal forest fires. <i>International Journal of Remote Sensing</i> , 2000, 21, 3525-3532.	1.3	59
117	A new cloud and aerosol layer detection method based on micropulse lidar measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6788-6802.	1.2	59
118	Aerosol properties at a midlatitude northern hemisphere continental site. <i>Journal of Geophysical Research</i> , 2001, 106, 3019-3032.	3.3	58
119	Comparative analysis of daytime fire detection algorithms using AVHRR data for the 1995 fire season in Canada: Perspective for MODIS. <i>International Journal of Remote Sensing</i> , 2003, 24, 1669-1690.	1.3	58
120	Identification of sources and formation processes of atmospheric sulfate by sulfur isotope and scanning electron microscope measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
121	Comparison of optical properties of nitrate and sulfate aerosol and the direct radiative forcing due to nitrate in China. <i>Atmospheric Research</i> , 2012, 113, 113-125.	1.8	58
122	Wintertime cooling and a potential connection with transported aerosols in Hong Kong during recent decades. <i>Atmospheric Research</i> , 2018, 211, 52-61.	1.8	58
123	Trends and uncertainties in thermal calibration of AVHRR radiometers onboard NOAA-9 to NOAA-16. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 17-1.	3.3	57
124	Significant reduction of surface solar irradiance induced by aerosols in a suburban region in northeastern China. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	57
125	Increases in thunderstorm activity and relationships with air pollution in southeast China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1835-1844.	1.2	57
126	Narrowband to Broadband Conversion with Spatially Autocorrelated Reflectance Measurements. <i>Journal of Applied Meteorology and Climatology</i> , 1992, 31, 421-432.	1.7	56

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127	Monitoring fire activities in the boreal ecosystem. <i>Journal of Geophysical Research</i> , 1997, 102, 29611-29624.	3.3	56
128	Development and analysis of a 12-year daily 1-km forest fire dataset across North America from NOAA/AVHRR data. <i>Remote Sensing of Environment</i> , 2007, 108, 198-208.	4.6	56
129	Aerosol optical depth measurements in eastern China and a new calibration method. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	56
130	Trends in aerosol optical properties over the Bohai Rim in Northeast China from 2004 to 2010. <i>Atmospheric Environment</i> , 2011, 45, 6317-6325.	1.9	56
131	Classification and investigation of Asian aerosol absorptive properties. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2253-2265.	1.9	56
132	A CloudSat Perspective on the Cloud Climatology and Its Association with Aerosol Perturbations in the Vertical over Eastern China. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3599-3616.	0.6	56
133	Natural variability and sampling errors in solar radiation measurements for model validation over the Atmospheric Radiation Measurement Southern Great Plains region. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	55
134	Atmospheric Aerosol Monitoring from Satellite Observations: A History of Three Decades. , 2009, , 13-38.		55
135	SO ₂ over central China: Measurements, numerical simulations and the tropospheric sulfur budget. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
136	Seasonal variations of aerosol optical properties, vertical distribution and associated radiative effects in the Yangtze Delta region of China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	55
137	Changes in surface aerosol extinction trends over China during 1980â€“2013 inferred from quality-controlled visibility data. <i>Geophysical Research Letters</i> , 2016, 43, 8713-8719.	1.5	55
138	Enhanced hydrophobicity and volatility of submicron aerosols under severe emission control conditions in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5239-5251.	1.9	55
139	Abnormally Shallow Boundary Layer Associated With Severe Air Pollution During the COVID-19 Lockdown in China. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090041.	1.5	54
140	A study on the temporal and spatial variability of absorbing aerosols using Total Ozone Mapping Spectrometer and Ozone Monitoring Instrument Aerosol Index data. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	53
141	Evaluation of the MODIS aerosol optical depth retrieval over different ecosystems in China during EAST-AIRE. <i>Atmospheric Environment</i> , 2007, 41, 7138-7149.	1.9	52
142	Simultaneous measurements of particle number size distributions at ground level and 260-µm on a meteorological tower in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6797-6811.	1.9	52
143	Transport, vertical structure and radiative properties of dust events in southeast China determined from ground and space sensors. <i>Atmospheric Environment</i> , 2011, 45, 6469-6480.	1.9	51
144	Using single-scattering albedo spectral curvature to characterize East Asian aerosol mixtures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2037-2052.	1.2	50

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145	Studying the vertical variation of cloud droplet effective radius using ship and spaceborne remote sensing data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	49
146	Heavy air pollution suppresses summer thunderstorms in central China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 95-96, 28-40.	0.6	49
147	Using different assumptions of aerosol mixing state and chemical composition to predict CCN concentrations based on field measurements in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6907-6921.	1.9	49
148	Constraining the Twomey effect from satellite observations: issues and perspectives. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15079-15099.	1.9	49
149	Validation and Calibration of Canada-Wide Coarse-Resolution Satellite Burned-Area Maps. <i>Photogrammetric Engineering and Remote Sensing</i> , 2004, 70, 451-460.	0.3	48
150	Application of spectral analysis techniques in the intercomparison of aerosol data: 1. An EOF approach to analyze the spatial-temporal variability of aerosol optical depth using multiple remote sensing data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8640-8648.	1.2	48
151	Characterization of aerosol hygroscopicity, mixing state, and CCN activity at a suburban site in the central North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11739-11752.	1.9	48
152	Declining Summertime Local-Scale Precipitation Frequency Over China and the United States, 1981-2012: The Disparate Roles of Aerosols. <i>Geophysical Research Letters</i> , 2019, 46, 13281-13289.	1.5	48
153	A new method for cross-calibration of two satellite sensors. <i>International Journal of Remote Sensing</i> , 2004, 25, 5267-5281.	1.3	47
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