

Chengcai Li

List of Publications by Year in descending order

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82
papers

3,558
citations

186265

28
h-index

144013

57
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94
all docs

94
docs citations

94
times ranked

3361
citing authors

#	ARTICLE	IF	CITATIONS
1	Global monitoring of air pollution over land from the Earth Observing System-Terra Moderate Resolution Imaging Spectroradiometer (MODIS). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	476
2	Using satellite remote sensing data to estimate the high-resolution distribution of ground-level PM2.5. <i>Remote Sensing of Environment</i> , 2015, 156, 117-128.	11.0	293
3	An extremely low visibility event over the Guangzhou region: A case study. <i>Atmospheric Environment</i> , 2005, 39, 6568-6577.	4.1	231
4	The impact of circulation patterns on regional transport pathways and air quality over Beijing and its surroundings. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5031-5053.	4.9	224
5	Acute Respiratory Inflammation in Children and Black Carbon in Ambient Air before and during the 2008 Beijing Olympics. <i>Environmental Health Perspectives</i> , 2011, 119, 1507-1512.	6.0	173
6	Retrieval, validation, and application of the 1-km aerosol optical depth from MODIS measurements over Hong Kong. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 2650-2658.	6.3	161
7	A modeling analysis of a heavy air pollution episode occurred in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3103-3114.	4.9	130
8	An intensive study of aerosol optical properties in Beijing urban area. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8903-8915.	4.9	121
9	High-resolution satellite remote sensing of provincial PM2.5 trends in China from 2001 to 2015. <i>Atmospheric Environment</i> , 2018, 180, 110-116.	4.1	117
10	Estimation of long-term population exposure to PM2.5 for dense urban areas using 1-km MODIS data. <i>Remote Sensing of Environment</i> , 2016, 179, 13-22.	11.0	92
11	Validation of MODIS derived aerosol optical depth over the Yangtze River Delta in China. <i>Remote Sensing of Environment</i> , 2010, 114, 1649-1661.	11.0	89
12	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.	4.9	79
13	Analysis of aerosol vertical distribution and variability in Hong Kong. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	78
14	An intercomparison of longâ€“term planetary boundary layer heights retrieved from CALIPSO, groundâ€“based lidar, and radiosonde measurements over Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3929-3943.	3.3	72
15	Longâ€“term measurement of daytime atmospheric mixing layer height over Hong Kong. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2422-2433.	3.3	71
16	Characterizations of aerosols over the Beijing region: A case study of aircraft measurements. <i>Atmospheric Environment</i> , 2006, 40, 4513-4527.	4.1	70
17	Changes in surface aerosol extinction trends over China during 1980â€“2013 inferred from qualityâ€“controlled visibility data. <i>Geophysical Research Letters</i> , 2016, 43, 8713-8719.	4.0	55
18	A study on the aerosol extinction-to-backscatter ratio with combination of micro-pulse LIDAR and MODIS over Hong Kong. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 3243-3256.	4.9	48

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19	Characteristics of distribution and seasonal variation of aerosol optical depth in eastern China with MODIS products. <i>Science Bulletin</i> , 2003, 48, 2488-2495.	9.0	47
20	Assessing Long-Term Trend of Particulate Matter Pollution in the Pearl River Delta Region Using Satellite Remote Sensing. <i>Environmental Science & Technology</i> , 2015, 49, 11670-11678.	10.0	44
21	Aerosol optical properties retrieved from Sun photometer measurements over Shanghai, China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43
22	Study on Long-term Aerosol Distribution over the Land of East China Using MODIS Data. <i>Aerosol and Air Quality Research</i> , 2012, 12, 304-319.	2.1	43
23	Seasonal and diurnal variability of planetary boundary layer height in Beijing: Intercomparison between MPL and WRF results. <i>Atmospheric Research</i> , 2019, 227, 1-13.	4.1	37
24	Preliminary results of 4-D water vapor tomography in the troposphere using GPS. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 551-560.	4.3	34
25	PM _{2.5} mass, chemical composition, and light extinction before and during the 2008 Beijing Olympics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,158.	3.3	32
26	The Properties and Formation of Cirrus Clouds over the Tibetan Plateau Based on Summertime Lidar Measurements. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 901-915.	1.7	32
27	An intercomparison of AOD-converted PM _{2.5} concentrations using different approaches for estimating aerosol vertical distribution. <i>Atmospheric Environment</i> , 2017, 166, 531-542.	4.1	31
28	Impact of aerosol hygroscopic growth on retrieving aerosol extinction coefficient profiles from elastic-backscatter lidar signals. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12133-12143.	4.9	31
29	A parameterization scheme of aerosol vertical distribution for surface-level visibility retrieval from satellite remote sensing. <i>Remote Sensing of Environment</i> , 2016, 181, 1-13.	11.0	29
30	Effects of potential recirculation on air quality in coastal cities in the Yangtze River Delta. <i>Science of the Total Environment</i> , 2019, 651, 12-23.	8.0	29
31	Current challenges of improving visibility due to increasing nitrate fraction in PM _{2.5} during the haze days in Beijing, China. <i>Environmental Pollution</i> , 2021, 290, 118032.	7.5	29
32	Analysis on the impact of aerosol optical depth on surface solar radiation in the Shanghai megacity, China. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3281-3289.	4.9	28
33	An Improved Method for Monitoring Fine Particulate Matter Mass Concentrations via Satellite Remote Sensing. <i>Aerosol and Air Quality Research</i> , 2016, 16, 1081-1092.	2.1	28
34	Long-term characteristics of satellite-based PM _{2.5} over East China. <i>Science of the Total Environment</i> , 2018, 612, 1417-1423.	8.0	25
35	15-Year PM _{2.5} Trends in the Pearl River Delta Region and Hong Kong from Satellite Observation. <i>Aerosol and Air Quality Research</i> , 2018, 18, 2355-2362.	2.1	25
36	Evaluation and possible uncertainty source analysis of JAXA Himawari-8 aerosol optical depth product over China. <i>Atmospheric Research</i> , 2021, 248, 105248.	4.1	24

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37	Difference in PM _{2.5} Variations between Urban and Rural Areas over Eastern China from 2001 to 2015. <i>Atmosphere</i> , 2018, 9, 312.	2.3	20
38	Evaluation of Atmospheric Aerosol Optical Depth Products at Ultraviolet Bands Derived from MODIS Products. <i>Aerosol Science and Technology</i> , 2012, 46, 1025-1034.	3.1	19
39	Effects of synoptic circulation patterns on air quality in Nanjing and its surrounding areas during 2013–2015. <i>Atmospheric Pollution Research</i> , 2018, 9, 723-734.	3.8	19
40	Spatio-temporal variation of wind influence on distribution of fine particulate matter and its precursor gases. <i>Atmospheric Pollution Research</i> , 2019, 10, 53-64.	3.8	17
41	Lidar-observed enhancement of aerosols in the upper troposphere and lower stratosphere over the Tibetan Plateau induced by the Nabro volcano eruption. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11687-11696.	4.9	16
42	Different trends in extreme and median surface aerosol extinction coefficients over China inferred from quality-controlled visibility data. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3289-3298.	4.9	15
43	Long-term variation of satellite-based PM _{2.5} and influence factors over East China. <i>Scientific Reports</i> , 2018, 8, 11764.	3.3	15
44	The Influence of Multi-Scale Atmospheric Circulation on Severe Haze Events in Autumn and Winter in Shanghai, China. <i>Sustainability</i> , 2019, 11, 5979.	3.2	15
45	Dual-field-of-view high-spectral-resolution lidar: Simultaneous profiling of aerosol and water cloud to study aerosol–cloud interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2110756119.	7.1	15
46	PM _{2.5} Chemical Compositions and Aerosol Optical Properties in Beijing during the Late Fall. <i>Atmosphere</i> , 2015, 6, 164-182.	2.3	13
47	Potential of Polarization Lidar to Profile the Urban Aerosol Phase State during Haze Episodes. <i>Environmental Science and Technology Letters</i> , 2020, 7, 54-59.	8.7	13
48	Geometrical constraint experimental determination of Raman lidar overlap profile. <i>Applied Optics</i> , 2016, 55, 4924.	2.1	12
49	An improved dark target method for aerosol optical depth retrieval over China from Himawari-8. <i>Atmospheric Research</i> , 2021, 250, 105399.	4.1	12
50	Remote sensing precipitable water with GPS. <i>Science Bulletin</i> , 1999, 44, 1041-1045.	1.7	11
51	Impacts of meteorology and emission control on the abnormally low particulate matter concentration observed during the winter of 2017. <i>Atmospheric Environment</i> , 2020, 225, 117377.	4.1	11
52	Assessment of satellite-based aerosol optical depth using continuous lidar observation. <i>Atmospheric Environment</i> , 2016, 140, 273-282.	4.1	10
53	DAILY ESTIMATION OF FINE PARTICULATE MATTER MASS CONCENTRATION THROUGH SATELLITE BASED AEROSOL OPTICAL DEPTH. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, IV-4/W2, 175-181.	0.0	10
54	A High CO Episode of Long-Range Transport Detected by MOPITT. <i>Water, Air, and Soil Pollution</i> , 2007, 178, 207-216.	2.4	9

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55	A Long-Term Wind Speed Ensemble Forecasting System with Weather Adapted Correction. <i>Energies</i> , 2016, 9, 894.	3.1	9
56	Assessing Effect of Targeting Reduction of PM _{2.5} Concentration on Human Exposure and Health Burden in Hong Kong Using Satellite Observation. <i>Remote Sensing</i> , 2018, 10, 2064.	4.0	9
57	Research on air pollution in Beijing and its surroundings with MODIS aerosol products. , 2003, , .		8
58	Method to retrieve cloud condensation nuclei number concentrations using lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3825-3839.	3.1	8
59	Assessing the Effect of the Long-Term Variations in Aerosol Characteristics on Satellite Remote Sensing of PM _{2.5} Using an Observation-Based Model. <i>Environmental Science & Technology</i> , 2019, 53, 2990-3000.	10.0	8
60	Retrieval of aerosol profiles by Raman lidar with dynamic determination of the lidar equation reference height. <i>Atmospheric Environment</i> , 2019, 199, 252-259.	4.1	8
61	Profiling Aerosol Liquid Water Content Using a Polarization Lidar. <i>Environmental Science & Technology</i> , 2020, 54, 3129-3137.	10.0	8
62	Application of aircraft observations over Beijing in cloud microphysical property retrievals from CloudSat. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 926-937.	4.3	7
63	The Evolution of Springtime Water Vapor Over Beijing Observed by a High Dynamic Raman Lidar System: Case Studies. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1715-1726.	4.9	7
64	Variability of surface aerosol properties at an urban site in Beijing based on two years of in-situ measurements. <i>Atmospheric Research</i> , 2021, 256, 105562.	4.1	7
65	A new way of using MODIS data to study air pollution over Hong Kong and the Pearl River Delta. , 2003, , .		6
66	Sensitivity analysis of single-angle polarization reflectance observed by satellite. <i>Science Bulletin</i> , 2014, 59, 1519-1528.	1.7	5
67	Dependence of Mixed Aerosol Light Scattering Extinction on Relative Humidity in Beijing and Hong Kong. <i>Atmospheric and Oceanic Science Letters</i> , 2013, 6, 117-121.	1.3	4
68	Decomposing the Long-term Variation in Population Exposure to Outdoor PM _{2.5} in the Greater Bay Area of China Using Satellite Observations. <i>Remote Sensing</i> , 2019, 11, 2646.	4.0	4
69	Retrieval of aerosol liquid water content from high spectral resolution lidar. <i>Science of the Total Environment</i> , 2021, 799, 149423.	8.0	4
70	Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1039-1047.	6.3	3
71	Validation of MODIS AOD products with 1-km resolution and their application in the study of urban air pollution in Hong Kong. , 2004, , .		2
72	Deduction of the sensible heat flux from SODAR data. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 253-266.	4.3	2

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73	The role of ASM on the formation and properties of cirrus clouds over the Tibetan Plateau. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1577070.	1.6	2
74	A novel framework for decomposing PM2.5 variation and demographic change effects on human exposure using satellite observations. Environmental Research, 2020, 182, 109120.	7.5	2
75	Retrieval of Atmospheric Aerosol Optical Depth From AVHRR Over Land With Global Coverage Using Machine Learning Method. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	2
76	<title>Remote sensing of atmospheric aerosol over China</title>. , 2001, , .		1
77	Constructing temporal and spatial water vapor figures by GPS remote sensing along slant rays. Science in China Series D: Earth Sciences, 2007, 50, 296-305.	0.9	1
78	Retrieval of column-averaged volume mixing ratio of CO2 with ground-based high spectral resolution solar absorption. Science Bulletin, 2014, 59, 1536-1540.	1.7	1
79	Acute Effect of Black Carbon and Particle Pollution in the Air on Exhaled Nitric Oxide of Elementary School Children Before and During 2008 Beijing Olympic. Epidemiology, 2009, 20, S250.	2.7	1
80	GPS remote sensing precipitable water in typhoon and severe storm background. Proceedings of SPIE, 1998, , .	0.8	0
81	Study on particulate matter air pollution in Beijing with MODIS aerosol level 2 products. , 2004, 5547, 103.		0
82	<title>Remote sensing of atmospheric water vapor in the region of southwest China using GPS</title>. , 2005, , .		0