

Huizheng che

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6921182/huizheng-che-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

231
papers

7,206
citations

49
h-index

76
g-index

289
ext. papers

8,665
ext. citations

5.4
avg, IF

6.04
L-index

#	Paper	IF	Citations
231	PM _{2.5} pollution in a megacity of southwest China: source apportionment and implication. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8679-8699	6.8	243
230	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	6.8	228
229	Analysis of 40 years of solar radiation data from China, 1961-2000. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	228
228	Ground-based aerosol climatology of China: aerosol optical depths from the China Aerosol Remote Sensing Network (CARSNET) 2002-2013. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7619-7652	6.8	185
227	Instrument calibration and aerosol optical depth validation of the China Aerosol Remote Sensing Network. <i>Journal of Geophysical Research</i> , 2009 , 114,		185
226	Data Quality Assessment and the Long-Term Trend of Ground Solar Radiation in China. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 1006-1016	2.7	174
225	Horizontal visibility trends in China 1981-2005. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	172
224	Spatio-temporal variation trends of satellite-based aerosol optical depth in China during 1980-2008. <i>Atmospheric Environment</i> , 2011 , 45, 6802-6811	5.3	171
223	Correlation between PM concentrations and aerosol optical depth in eastern China. <i>Atmospheric Environment</i> , 2009 , 43, 5876-5886	5.3	166
222	Estimating long-term PM _{2.5} concentrations in China using satellite-based aerosol optical depth and a chemical transport model. <i>Remote Sensing of Environment</i> , 2015 , 166, 262-270	13.2	162
221	Haze trends over the capital cities of 31 provinces in China, 1981-2005. <i>Theoretical and Applied Climatology</i> , 2009 , 97, 235-242	3	148
220	Spatial and temporal variations of the concentrations of PM ₁₀ , PM _{2.5} and PM ₁ in China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13585-13598	6.8	138
219	Satellite-derived PM concentration trends over Eastern China from 1998 to 2016: Relationships to emissions and meteorological parameters. <i>Environmental Pollution</i> , 2019 , 247, 1125-1133	9.3	112
218	Simulation of direct radiative forcing of aerosols and their effects on East Asian climate using an interactive AGCM-aerosol coupled system. <i>Climate Dynamics</i> , 2012 , 38, 1675-1693	4.2	112
217	Comparison and evaluation of the MODIS Collection 6 aerosol data in China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6992-7005	4.4	109
216	Validation of MODIS aerosol optical depth product over China using CARSNET measurements. <i>Atmospheric Environment</i> , 2011 , 45, 5970-5978	5.3	98
215	CHANGES OF ATMOSPHERIC COMPOSITION AND OPTICAL PROPERTIES OVER BEIJING-2008 Olympic Monitoring Campaign. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1633-1652	6.1	97

214	A multisource observation study of the severe prolonged regional haze episode over eastern China in January 2013. <i>Atmospheric Environment</i> , 2014 , 48, 807-815	5.3	92
213	Aerosol optical properties based on ground measurements over the Chinese Yangtze Delta Region. <i>Atmospheric Environment</i> , 2010 , 44, 2587-2596	5.3	92
212	Large contribution of meteorological factors to inter-decadal changes in regional aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10497-10523	6.8	90
211	Ground-based remote sensing of aerosol climatology in China: Aerosol optical properties, direct radiative effect and its parameterization. <i>Atmospheric Environment</i> , 2016 , 124, 243-251	5.3	85
210	Characteristics of visibility and particulate matter (PM) in an urban area of Northeast China. <i>Atmospheric Pollution Research</i> , 2013 , 4, 427-434	4.5	83
209	Intercomparison between aerosol optical properties by a PREDE skyradiometer and CIMEL sunphotometer over Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3199-3214	6.8	83
208	Aerosol optical properties under the condition of heavy haze over an urban site of Beijing, China. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 1043-53	5.1	77
207	Mesoscale modelling study of the interactions between aerosols and PBL meteorology during a haze episode in China JingJinJi and its near surrounding region [Part 2: Aerosols' radiative feedback effects. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3277-3287	6.8	76
206	Modeling study of PM _{2.5} pollutant transport across cities in China's JingJinJi region during a severe haze episode in December 2013. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5803-5814	6.8	74
205	Aerosol optical properties and direct radiative forcing based on measurements from the China Aerosol Remote Sensing Network (CARSNET) in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 405-425	6.8	72
204	Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1337-1362	6.8	68
203	Spatial distribution of aerosol microphysical and optical properties and direct radiative effect from the China Aerosol Remote Sensing Network. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11843-11864	6.8	65
202	Mesoscale modeling study of the interactions between aerosols and PBL meteorology during a haze episode in JingJinJi (China) and its nearby surrounding region [Part 1: Aerosol distributions and meteorological features. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3257-3275	6.8	65
201	Temporal and spatial variations in sand and dust storm events in East Asia from 2007 to 2016: Relationships with surface conditions and climate change. <i>Science of the Total Environment</i> , 2018 , 633, 452-462	10.2	64
200	Air stagnation and its impact on air quality during winter in Sichuan and Chongqing, southwestern China. <i>Science of the Total Environment</i> , 2018 , 635, 576-585	10.2	64
199	Seasonal variation and difference of aerosol optical properties in columnar and surface atmospheres over Shanghai. <i>Atmospheric Environment</i> , 2015 , 123, 315-326	5.3	62
198	Diurnal and seasonal variability of PM _{2.5} and AOD in North China plain: Comparison of MERRA-2 products and ground measurements. <i>Atmospheric Environment</i> , 2018 , 191, 70-78	5.3	60
197	Chemical composition, source, and process of urban aerosols during winter haze formation in Northeast China. <i>Environmental Pollution</i> , 2017 , 231, 357-366	9.3	59

196	Optical properties and radiative forcing of urban aerosols in Nanjing, China. <i>Atmospheric Environment</i> , 2014 , 83, 43-52	5.3	59
195	Interaction Between Planetary Boundary Layer and PM _{2.5} Pollution in Megacities in China: a Review. <i>Current Pollution Reports</i> , 2019 , 5, 261-271	7.6	58
194	Visual range trends in the Yangtze River Delta Region of China, 1981-2005. <i>Journal of the Air and Waste Management Association</i> , 2011 , 61, 843-9	2.4	57
193	Development of a new data-processing method for SKYNET sky radiometer observations. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2723-2737	4	57
192	Towards the improvements of simulating the chemical and optical properties of Chinese aerosols using an online coupled model [CUACE/Aero. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2012 , 64, 18965	3.3	56
191	Spatial distribution and temporal variation of aerosol optical depth in the Sichuan basin, China, the recent ten years. <i>Atmospheric Environment</i> , 2016 , 147, 434-445	5.3	54
190	Evaluation of radiosonde, MODIS-NIR-Clear, and AERONET precipitable water vapor using IGS ground-based GPS measurements over China. <i>Atmospheric Research</i> , 2017 , 197, 461-473	5.4	54
189	Aerosol optical properties of regional background atmosphere in Northeast China. <i>Atmospheric Environment</i> , 2010 , 44, 4404-4412	5.3	54
188	Aerosol optical characteristics and their vertical distributions under enhanced haze pollution events: effect of the regional transport of different aerosol types over eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2949-2971	6.8	53
187	Characteristic and Driving Factors of Aerosol Optical Depth over Mainland China during 1980-2017. <i>Remote Sensing</i> , 2018 , 10, 1064	5	52
186	Column-integrated aerosol optical and physical properties at a regional background atmosphere in North China Plain. <i>Atmospheric Environment</i> , 2014 , 84, 54-64	5.3	51
185	Estimating ground-level PM _{2.5} in eastern China using aerosol optical depth determined from the GOCI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13133-13144	6.8	51
184	Aerosol optical properties at Mt. Waliguan Observatory, China. <i>Atmospheric Environment</i> , 2011 , 45, 6004-6009	5.3	51
183	Study of aerosol optical properties at Kunming in southwest China and long-range transport of biomass burning aerosols from North Burma. <i>Atmospheric Research</i> , 2016 , 169, 237-247	5.4	50
182	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 655-671	6.8	48
181	Variation in MERRA-2 aerosol optical depth and absorption aerosol optical depth over China from 1980 to 2017. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019 , 186, 8-19	2	47
180	Study on the aerosol optical properties and their relationship with aerosol chemical compositions over three regional background stations in China. <i>Atmospheric Environment</i> , 2009 , 43, 1093-1099	5.3	46
179	Retrieval of aerosol components directly from satellite and ground-based measurements. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13409-13443	6.8	45

178	Temporal variability of the visibility, particulate matter mass concentration and aerosol optical properties over an urban site in Northeast China. <i>Atmospheric Research</i> , 2015 , 166, 204-212	5.4	44
177	Aerosol optical properties over urban and industrial region of Northeast China by using ground-based sun-photometer measurement. <i>Atmospheric Environment</i> , 2013 , 75, 270-278	5.3	44
176	Variation of Aerosol Optical Properties over the Taklimakan Desert in China. <i>Aerosol and Air Quality Research</i> , 2013 , 13, 777-785	4.6	43
175	Observation and analysis of near-surface atmospheric aerosol optical properties in urban Beijing. <i>Particuology</i> , 2015 , 18, 144-154	2.8	41
174	Clear-sky aerosol optical depth over East China estimated from visibility measurements and chemical transport modeling. <i>Atmospheric Environment</i> , 2014 , 95, 258-267	5.3	41
173	The impacts of the meteorology features on PM _{2.5} levels during a severe haze episode in central-east China. <i>Atmospheric Environment</i> , 2019 , 197, 177-189	5.3	41
172	Column-integrated aerosol optical properties and direct radiative forcing based on sun photometer measurements at a semi-arid rural site in Northeast China. <i>Atmospheric Research</i> , 2015 , 157, 56-65	5.4	40
171	Performance of MODIS high-resolution MAIAC aerosol algorithm in China: Characterization and limitation. <i>Atmospheric Environment</i> , 2019 , 213, 159-169	5.3	39
170	Analyses of aerosol optical properties and direct radiative forcing over urban and industrial regions in Northeast China. <i>Meteorology and Atmospheric Physics</i> , 2015 , 127, 345-354	2	38
169	Construction of a virtual PM observation network in China based on high-density surface meteorological observations using the Extreme Gradient Boosting model. <i>Environment International</i> , 2020 , 141, 105801	12.9	38
168	Aerosol radiative forcing under clear, hazy, foggy, and dusty weather conditions over Beijing, China. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	38
167	Transport of East Asian dust storms to the marginal seas of China and the southern North Pacific in spring 2010. <i>Atmospheric Environment</i> , 2017 , 148, 316-328	5.3	37
166	Spatial and temporal evolution of natural and anthropogenic dust events over northern China. <i>Scientific Reports</i> , 2018 , 8, 2141	4.9	34
165	Contributions to the explosive growth of PM _{2.5} mass due to aerosol radiation feedback and decrease in turbulent diffusion during a red alert heavy haze in Beijing-Tianjin-Hebei, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17717-17733	6.8	34
164	Aerosol radiative effect in UV, VIS, NIR, and SW spectra under haze and high-humidity urban conditions. <i>Atmospheric Environment</i> , 2017 , 166, 9-21	5.3	31
163	Long-term validation of MODIS C6 and C6.1 Dark Target aerosol products over China using CARSNET and AERONET. <i>Chemosphere</i> , 2019 , 236, 124268	8.4	30
162	Evaluation of MODIS Deep Blue Aerosol Algorithm in Desert Region of East Asia: Ground Validation and Intercomparison. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,357-10,368	4.4	28
161	Monitoring haze episodes over the Yellow Sea by combining multisensor measurements. <i>International Journal of Remote Sensing</i> , 2010 , 31, 4743-4755	3.1	28

160	Analysis of sky conditions using 40 year records of solar radiation data in China. <i>Theoretical and Applied Climatology</i> , 2007 , 89, 83-94	3	28
159	Water vapor variation and the effect of aerosols in China. <i>Atmospheric Environment</i> , 2017 , 165, 322-335	5.3	27
158	The Relationship of PM Variation with Visibility and Mixing-Layer Height under Hazy/Foggy Conditions in the Multi-Cities of Northeast China. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	26
157	Relationship between summertime concurring PM and O pollution and boundary layer height differs between Beijing and Shanghai, China. <i>Environmental Pollution</i> , 2021 , 268, 115775	9.3	26
156	Five-year observation of aerosol optical properties and its radiative effects to planetary boundary layer during air pollution episodes in North China: Intercomparison of a plain site and a mountainous site in Beijing. <i>Science of the Total Environment</i> , 2019 , 674, 140-158	10.2	24
155	Development of an integrating sphere calibration method for Cimel sunphotometers in China aerosol remote sensing network. <i>Particuology</i> , 2014 , 13, 88-99	2.8	24
154	Aerosol optical properties and its radiative forcing over Yulin, China in 2001 and 2002. <i>Advances in Atmospheric Sciences</i> , 2009 , 26, 564-576	2.9	24
153	Observational evidence of cloud processes contributing to daytime elevated nitrate in an urban atmosphere. <i>Atmospheric Environment</i> , 2018 , 186, 209-215	5.3	24
152	Application of aerosol optical properties to estimate aerosol type from ground-based remote sensing observation at urban area of northeastern China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 132, 37-47	2	23
151	Characterization of vertical distribution and radiative forcing of ambient aerosol over the Yangtze River Delta during 2013-2015. <i>Science of the Total Environment</i> , 2019 , 650, 1846-1857	10.2	23
150	Study of Aerosol Optical Properties Based on Ground Measurements over Sichuan Basin, China. <i>Aerosol and Air Quality Research</i> , 2014 , 14, 905-915	4.6	22
149	An overview of and issues with sky radiometer technology and SKYNET. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4195-4218	4	22
148	A 20-year simulated climatology of global dust aerosol deposition. <i>Science of the Total Environment</i> , 2016 , 557-558, 861-8	10.2	22
147	Modeling East Asian Dust and Its Radiative Feedbacks in CAM4-BAM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1079-1096	4.4	22
146	Retrievals of fine mode light-absorbing carbonaceous aerosols from POLDER/PARASOL observations over East and South Asia. <i>Remote Sensing of Environment</i> , 2020 , 247, 111913	13.2	21
145	Evaluation of aerosol optical depth and aerosol models from VIIRS retrieval algorithms over North China Plain. <i>Remote Sensing</i> , 2017 , 9,	5	21
144	Aerosol vertical distribution and optical properties of different pollution events in Beijing in autumn 2017. <i>Atmospheric Research</i> , 2019 , 215, 193-207	5.4	21
143	Variation in MERRA-2 aerosol optical depth over the Yangtze River Delta from 1980 to 2016. <i>Theoretical and Applied Climatology</i> , 2019 , 136, 363-375	3	21

142	Estimation of aerosol complex refractive indices for both fine and coarse modes simultaneously based on AERONET remote sensing products. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 3203-3214	4	20
141	Aerosol optical properties observation and its relationship to meteorological conditions and emission during the Chinese National Day and Spring Festival holiday in Beijing. <i>Atmospheric Research</i> , 2017 , 197, 188-200	5.4	20
140	Separating emission and meteorological contributions to long-term PM _{2.5} trends over eastern China during 2000-2018. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9475-9496	6.8	20
139	Spatiotemporal variation of aerosol and potential long-range transport impact over the Tibetan Plateau, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14637-14656	6.8	20
138	Integrated impacts of synoptic forcing and aerosol radiative effect on boundary layer and pollution in the Beijing-Tianjin-Hebei region, China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5899-5909	6.8	19
137	Modern dust aerosol availability in northwestern China. <i>Scientific Reports</i> , 2017 , 7, 8741	4.9	19
136	Temporal and spatial variations of haze and fog and the characteristics of PM _{2.5} during heavy pollution episodes in China from 2013 to 2018. <i>Atmospheric Pollution Research</i> , 2020 , 11, 1847-1856	4.5	19
135	Multiyear Ground-Based Measurements of Aerosol Optical Properties and Direct Radiative Effect Over Different Surface Types in Northeastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,887	4.4	19
134	Case study of longwave contribution to dust radiative effects over East Asia. <i>Science Bulletin</i> , 2013 , 58, 3673-3681		18
133	Spatial and temporal variations of the concentrations of PM ₁₀ , PM _{2.5} and PM ₁ in China		18
132	Aerosol Optical Properties Based on Ground and Satellite Retrievals during a Serious Haze Episode in December 2015 over Beijing. <i>Atmosphere</i> , 2016 , 7, 70	2.7	18
131	How aerosol transport from the North China plain contributes to air quality in northeast China. <i>Science of the Total Environment</i> , 2020 , 738, 139555	10.2	16
130	The optical properties, physical properties and direct radiative forcing of urban columnar aerosols in the Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1419-1436	6.8	16
129	Aerosol optical properties and radiative impacts in the Pearl River Delta region of China during the dry season. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 195-208	2.9	15
128	Validation of aerosol optical depth and climatology of aerosol vertical distribution in the Taklimakan Desert. <i>Atmospheric Pollution Research</i> , 2015 , 6, 239-244	4.5	15
127	Aerosol Vertical Distribution and Typical Air Pollution Episodes over Northeastern China during 2016 Analyzed by Ground-based Lidar. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 918-937	4.6	15
126	Incorrect Asian aerosols affecting the attribution and projection of regional climate change in CMIP6 models. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	15
125	Research Progress on Estimation of the Atmospheric Boundary Layer Height. <i>Journal of Meteorological Research</i> , 2020 , 34, 482-498	2.3	14

124	Can MERRA-2 Reanalysis Data Reproduce the Three-Dimensional Evolution Characteristics of a Typical Dust Process in East Asia? A Case Study of the Dust Event in May 2017. <i>Remote Sensing</i> , 2020 , 12, 902	5	14
123	Estimation and inter-comparison of dust aerosols based on MODIS, MISR and AERONET retrievals over Asian desert regions. <i>Journal of Environmental Sciences</i> , 2019 , 76, 154-166	6.4	14
122	Aerosol Optical Properties over Mount Song, a Rural Site in Central China. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 2051-2064	4.6	14
121	Aerosol Optical Properties over Beijing during the World Athletics Championships and Victory Day Military Parade in August and September 2015. <i>Atmosphere</i> , 2016 , 7, 47	2.7	14
120	Climatology of mixing layer height in China based on multi-year meteorological data from 2000 to 2013. <i>Atmospheric Environment</i> , 2019 , 213, 90-103	5.3	13
119	Interdecadal changes of summer aerosol pollution in the Yangtze River Basin of China, the relative influence of meteorological conditions and the relation to climate change. <i>Science of the Total Environment</i> , 2018 , 630, 46-52	10.2	13
118	PM _{2.5} pollution in a megacity of southwest China: source apportionment and implication		13
117	Spatial and temporal distribution of the cloud optical depth over China based on MODIS satellite data during 2003-2016. <i>Journal of Environmental Sciences</i> , 2019 , 80, 66-81	6.4	13
116	Advances in sunphotometer-measured aerosol optical properties and related topics in China: Impetus and perspectives. <i>Atmospheric Research</i> , 2021 , 249, 105286	5.4	13
115	Heavy aerosol loading over the Bohai Bay as revealed by ground and satellite remote sensing. <i>Atmospheric Environment</i> , 2016 , 124, 252-261	5.3	12
114	On the influence of atmospheric super-saturation layer on China's heavy haze-fog events. <i>Atmospheric Environment</i> , 2017 , 171, 261-271	5.3	12
113	Approximations of the scattering phase functions of particles. <i>Advances in Atmospheric Sciences</i> , 2006 , 23, 802-808	2.9	12
112	Radiative feedbacks of dust in snow over eastern Asia in CAM4-BAM. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12683-12698	6.8	12
111	Seasonal variability and trends in global type-segregated aerosol optical depth as revealed by MISR satellite observations. <i>Science of the Total Environment</i> , 2021 , 787, 147543	10.2	12
110	Assessing the impact of Chinese FY-3/MERSI AOD data assimilation on air quality forecasts: Sand dust events in northeast China. <i>Atmospheric Environment</i> , 2019 , 205, 78-89	5.3	11
109	Comparison of Two Air Pollution Episodes over Northeast China in Winter 2016/17 Using Ground-Based Lidar. <i>Journal of Meteorological Research</i> , 2018 , 32, 313-323	2.3	11
108	Evaluation and Comparison of Long-Term MODIS C5.1 and C6 Products against AERONET Observations over China. <i>Remote Sensing</i> , 2017 , 9, 1269	5	11
107	Relationship between horizontal extinction coefficient and PM ₁₀ concentration in Xi'an, china, during 1980-2002. <i>Particuology: Science and Technology of Particles</i> , 2006 , 4, 327-329		11

106	Comparison of EC and BC and evaluation of dust aerosol contribution to light absorption in Xi'an, China. <i>Environmental Monitoring and Assessment</i> , 2006 , 120, 301-12	3.1	11
105	Seasonal Variation of Aerosol Optical Properties in an Urban Site of the Yangtze Delta Region of China. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 2884-2896	4.6	11
104	The two-way feedback effect between aerosol pollution and planetary boundary layer structure on the explosive rise of PM after the "Ten Statements of Atmosphere" in Beijing. <i>Science of the Total Environment</i> , 2020 , 709, 136259	10.2	11
103	Long-Term Variation of Black Carbon Aerosol in China Based on Revised Aethalometer Monitoring Data. <i>Atmosphere</i> , 2020 , 11, 684	2.7	11
102	Satellite-Observed Transport of Dust to the East China Sea and the North Pacific Subtropical Gyre: Contribution of Dust to the Increase in Chlorophyll during Spring 2010. <i>Atmosphere</i> , 2016 , 7, 152	2.7	11
101	Calibration of the 936nm water-vapor channel for the China aerosol remote sensing NETWORK (CARSNET) and the effect of the retrieval water-vapor on aerosol optical property over Beijing, China. <i>Atmospheric Pollution Research</i> , 2016 , 7, 743-753	4.5	11
100	Impacts of regional transport and boundary layer structure on the PM _{2.5} pollution in Wuhan, Central China. <i>Atmospheric Environment</i> , 2020 , 230, 117508	5.3	11
99	Development of WRF/CUACE v1.0 model and its preliminary application in simulating air quality in China. <i>Geoscientific Model Development</i> , 2021 , 14, 703-718	6.3	11
98	The development and application of satellite remote sensing for atmospheric compositions in China. <i>Atmospheric Research</i> , 2020 , 245, 105056	5.4	10
97	Investigation of Aerosol Optical Depth (AOD) and Ångström Exponent over the Desert Region of Northwestern China Based on Measurements from the China Aerosol Remote Sensing Network (CARSNET). <i>Aerosol and Air Quality Research</i> , 2015 , 15, 2024-2036	4.6	10
96	The Impacts of Different PBL Schemes on the Simulation of PM _{2.5} during Severe Haze Episodes in the Jing-Jin-Ji Region and Its Surroundings in China. <i>Advances in Meteorology</i> , 2016 , 2016, 1-15	1.7	10
95	Analysis of water vapor effects on aerosol properties and direct radiative forcing in China. <i>Science of the Total Environment</i> , 2019 , 650, 257-266	10.2	10
94	Influence of meteorological conditions on explosive increase in O ₃ concentration in troposphere. <i>Science of the Total Environment</i> , 2019 , 652, 1228-1241	10.2	10
93	Comparison of AVHRR aerosol optical depth production against CARSNET data in China. <i>Atmospheric Research</i> , 2019 , 218, 12-24	5.4	10
92	Evaluation and possible uncertainty source analysis of JAXA Himawari-8 aerosol optical depth product over China. <i>Atmospheric Research</i> , 2021 , 248, 105248	5.4	10
91	Aerosol and gaseous pollutant characteristics during the heating season (winter-spring transition) in the Harbin-Changchun megalopolis, northeastern China. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019 , 188, 26-43	2	9
90	Column-integrated aerosol optical properties of coarse- and fine-mode particles over the Pearl River Delta region in China. <i>Science of the Total Environment</i> , 2018 , 622-623, 481-492	10.2	9
89	Daytime variation of aerosol optical depth in North China and its impact on aerosol direct radiative effects. <i>Atmospheric Environment</i> , 2018 , 182, 31-40	5.3	9

88	Impact of Biomass Burning in South and Southeast Asia on Background Aerosol in Southwest China. <i>Aerosol and Air Quality Research</i> , 2019 , 19, 1188-1204	4.6	9
87	Variation of the aerosol optical properties and validation of MODIS AOD products over the eastern edge of the Tibetan Plateau based on ground-based remote sensing in 2017. <i>Atmospheric Environment</i> , 2020 , 223, 117257	5.3	9
86	The impact of aerosol on MODIS cloud detection and property retrieval in seriously polluted East China. <i>Science of the Total Environment</i> , 2020 , 711, 134634	10.2	9
85	Source apportionment of particulate matter based on numerical simulation during a severe pollution period in Tangshan, North China. <i>Environmental Pollution</i> , 2020 , 266, 115133	9.3	9
84	Analysis of the Error in Retrievals of Aerosol Optical Properties from Sunphotometer Measurements of CARSNET Due to a Variety of Objective Factors. <i>Atmosphere</i> , 2016 , 7, 9	2.7	9
83	Evaluating VIIRS EPS Aerosol Optical Depth in China: An intercomparison against ground-based measurements and MODIS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 224, 368-377	3.7	9
82	Optical and radiative properties of aerosols during a severe haze episode over the North China Plain in December 2016. <i>Journal of Meteorological Research</i> , 2017 , 31, 1045-1061	2.3	8
81	Modeling study of PM _{2.5} pollutant transport across cities in China's Jing-Jin-Ji region during a severe haze episode in December 2013		8
80	Mitigating MODIS AOD non-random sampling error on surface PM _{2.5} estimates by a combined use of Bayesian Maximum Entropy method and linear mixed-effects model. <i>Atmospheric Pollution Research</i> , 2020 , 11, 482-490	4.5	8
79	Interdecadal variation in aerosol optical properties and their relationships to meteorological parameters over northeast China from 1980 to 2017. <i>Chemosphere</i> , 2020 , 247, 125737	8.4	8
78	Constructing Shapes and Mixing Structures of Black Carbon Particles With Applications to Optical Calculations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034620	4.4	8
77	Spatio-temporal trends of dust emissions triggered by desertification in China. <i>Catena</i> , 2021 , 200, 105160	3.8	8
76	Variations of Haze Pollution in China Modulated by Thermal Forcing of the Western Pacific Warm Pool. <i>Atmosphere</i> , 2018 , 9, 314	2.7	8
75	The Significant Contribution of Small-Sized and Spherical Aerosol Particles to the Decreasing Trend in Total Aerosol Optical Depth over Land from 2003 to 2018. <i>Engineering</i> , 2021 ,	9.7	8
74	Robust prediction of hourly PM from meteorological data using LightGBM. <i>National Science Review</i> , 2021 , 8, nwa307	10.8	8
73	Contrast in column-integrated aerosol optical properties during heating and non-heating seasons at Urumqi: its causes and implications. <i>Atmospheric Research</i> , 2017 , 191, 34-43	5.4	7
72	Similarities and Differences in the Temporal Variability of PM _{2.5} and AOD Between Urban and Rural Stations in Beijing. <i>Remote Sensing</i> , 2020 , 12, 1193	5	7
71	Contribution distinguish between emission reduction and meteorological conditions to Blue Sky. <i>Atmospheric Environment</i> , 2018 , 190, 209-217	5.3	7

70	Surface and Column-Integrated Aerosol Properties of Heavy Haze Events in January 2013 over the North China Plain. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 1514-1524	4.6	7
69	Fine Mode Aerosol Optical Properties Related to Cloud and Fog Processing over a Cluster of Cities in Northeast China. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 2065-2081	4.6	7
68	Improved method of visibility parameterization focusing on high humidity and aerosol concentrations during fog/haze events: Application in the GRAPES_CAUCE model in Jing-Jin-Ji, China. <i>Atmospheric Environment</i> , 2020 , 222, 117139	5.3	7
67	Aerosol Optical Properties over an Urban Site in Central China Determined Using Ground-Based Sun Photometer Measurements. <i>Aerosol and Air Quality Research</i> , 2019 , 19, 620-638	4.6	7
66	Climatology and trends of aerosol optical depth with different particle size and shape in northeast China from 2001 to 2018. <i>Science of the Total Environment</i> , 2021 , 763, 142979	10.2	7
65	Climatological variations in aerosol optical depth and aerosol type identification in Liaoning of Northeast China based on MODIS data from 2002 to 2019. <i>Science of the Total Environment</i> , 2021 , 781, 146810	10.2	7
64	Contribution of Meteorological Conditions to the Variation in Winter PM2.5 Concentrations from 2013 to 2019 in Middle-Eastern China. <i>Atmosphere</i> , 2019 , 10, 563	2.7	6
63	Understanding MODIS dark-target collection 5 and 6 aerosol data over China: Effect of surface type, aerosol loading and aerosol absorption. <i>Atmospheric Research</i> , 2019 , 228, 161-175	5.4	6
62	Influence of Atmospheric Circulation on Aerosol and its Optical Characteristics in the Pearl River Delta Region. <i>Atmosphere</i> , 2020 , 11, 288	2.7	6
61	Climatology of Fine and Coarse Mode Aerosol Optical Thickness Over East and South Asia Derived From POLDER/PARASOL Satellite. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032665	4.4	6
60	Aerosol Optical Properties Retrieved from a Prede Sky Radiometer over an Urban Site of Beijing, China. <i>Journal of the Meteorological Society of Japan</i> , 2014 , 92A, 17-31	2.8	6
59	A critical view of long-term AVHRR aerosol data record in China: Retrieval frequency and heavy pollution. <i>Atmospheric Environment</i> , 2020 , 223, 117246	5.3	6
58	Identifying the dominant local factors of 2000-2019 changes in dust loading over East Asia. <i>Science of the Total Environment</i> , 2021 , 777, 146064	10.2	6
57	Aerosol optical properties and its type classification based on multiyear joint observation campaign in north China plain megalopolis. <i>Chemosphere</i> , 2020 , 273, 128560	8.4	6
56	Evaluating the performance of two surface layer schemes for the momentum and heat exchange processes during severe haze pollution in Jing-Jin-Ji in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17421-17435	6.8	6
55	On the heavy aerosol pollution and its meteorological dependence in Shandong province, China. <i>Atmospheric Research</i> , 2021 , 256, 105572	5.4	6
54	Improvement of snow/haze confusion data gaps in MODIS Dark Target aerosol retrievals in East China. <i>Atmospheric Research</i> , 2020 , 245, 105063	5.4	5
53	Applying the WRF Double-Moment Six-Class Microphysics Scheme in the GRAPES_Meso Model: A Case Study. <i>Journal of Meteorological Research</i> , 2018 , 32, 246-264	2.3	5

52	The variation in visibility and its relationship with surface wind speed in China from 1960 to 2009. <i>Theoretical and Applied Climatology</i> , 2018 , 131, 335-347	3	5
51	A Critical Evaluation of Deep Blue Algorithm Derived AVHRR Aerosol Product Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12173-12193	4.4	5
50	Assessment of In-situ Langley Calibration of CE-318 Sunphotometer at Mt. Waliguan Observatory, China. <i>Scientific Online Letters on the Atmosphere</i> , 2011 , 7, 89-92	2.1	5
49	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		5
48	Three-dimensional climatology, trends, and meteorological drivers of global and regional tropospheric type-dependent aerosols: insights from 13 years (2007-2019) of CALIOP observations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15309-15336	6.8	5
47	Seasonal variation of atmospheric vertical extinction and its interaction with meteorological factors in the Yangtze River Delta region. <i>Chemosphere</i> , 2020 , 247, 125768	8.4	5
46	The dominant mechanism of the explosive rise of PM _{2.5} after significant pollution emissions reduction in Beijing from 2017 to the COVID-19 pandemic in 2020. <i>Atmospheric Pollution Research</i> , 2021 , 12, 272-281	4.5	5
45	Contributions of modern Gobi Desert to the Badain Jaran Desert and the Chinese Loess Plateau. <i>Scientific Reports</i> , 2019 , 9, 985	4.9	4
44	Global view on China's foggy-haze associated with air-pollutant conveyor belts. <i>Science of the Total Environment</i> , 2019 , 693, 133448	10.2	4
43	An overview of meso-scale aerosol processes, comparison and validation studies from DRAGON networks 2017 ,		4
42	Investigation of the Optical Properties of Aerosols over the Coastal Region at Dalian, Northeast China. <i>Atmosphere</i> , 2016 , 7, 103	2.7	4
41	Extracting Taklimakan Dust Parameters from AIRS with Artificial Neural Network Method. <i>Remote Sensing</i> , 2019 , 11, 2931	5	4
40	Impacts of PBL schemes on PM _{2.5} simulation and their responses to aerosol-radiation feedback in GRAPES_CUACE model during severe haze episodes in Jing-Jin-Ji, China. <i>Atmospheric Research</i> , 2021 , 248, 105268	5.4	4
39	Validation of the aerosol optical property products derived by the GRASP/Component approach from multi-angular polarimetric observations. <i>Atmospheric Research</i> , 2021 , 263, 105802	5.4	4
38	Investigations into the development of a satellite-based aerosol climate data record using ATSR-2, AATSR and AVHRR data over north-eastern China from 1987 to 2012. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4091-4112	4	3
37	Temporal variation of dust aerosol pollution in northern China. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3
36	A new method to retrieve aerosol optical thickness from satellite images on a parallel system. <i>Particuology</i> , 2009 , 7, 392-398	2.8	3
35	Extensive characterization of aerosol optical properties and chemical component concentrations: Application of the GRASP/Component approach to long-term AERONET measurements.. <i>Science of the Total Environment</i> , 2021 , 812, 152553	10.2	3

34	A satellite-measured view of aerosol component content and optical property in a haze-polluted case over North China Plain. <i>Atmospheric Research</i> , 2022 , 266, 105958	5.4	3
33	A Comparative Analysis of Aerosol Microphysical, Optical and Radiative Properties during the Spring Festival Holiday over Beijing and Surrounding Regions. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 1774-1787	4.6	3
32	Mesoscale modeling study of the interactions between aerosols and PBL meteorology during a haze episode in China Jing-Jin-Ji and its near surrounding region [Part 2: Aerosols' radiative feedback effects		3
31	Ground-based aerosol climatology of China: aerosol optical depths from the China Aerosol Remote Sensing Network (CARSNET) 2002-2013		3
30	The Impact of the Variation in Weather and Season on WRF Dynamical Downscaling in the Pearl River Delta Region. <i>Atmosphere</i> , 2021 , 12, 409	2.7	3
29	Intercomparison between the aerosol optical properties retrieved by different inversion methods from SKYNET sky radiometer observations over Qionghai and Yucheng in China. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1195-1212	4	2
28	Dust-sized fractions from dustfall and physical weathering in the Gobi Desert. <i>Aeolian Research</i> , 2020 , 43, 100565	3.9	2
27	Aerosol optical characteristics and their vertical distributions under enhanced haze pollution events: effect of the regional transport of different aerosol types over eastern China 2017 ,		2
26	Weekday AOD smaller than weekend AOD in eastern China on the basis of the MODIS AOD product. <i>Theoretical and Applied Climatology</i> , 2018 , 132, 1019-1027	3	2
25	Two mega sand and dust storm events over northern China in March 2021: transport processes, historical ranking and meteorological drivers		2
24	Evaluation of surface solar radiation trends over China since the 1960s in the CMIP6 models and potential impact of aerosol emissions. <i>Atmospheric Research</i> , 2022 , 268, 105991	5.4	2
23	A global-scale analysis of the MISR Level-3 aerosol optical depth (AOD) product: Comparison with multi-platform AOD data sources. <i>Atmospheric Pollution Research</i> , 2021 , 12, 101238	4.5	2
22	Radiative forcing of the aerosol-cloud interaction in seriously polluted East China and East China Sea. <i>Atmospheric Research</i> , 2021 , 252, 105405	5.4	2
21	Effect of vegetation seasonal cycle alterations to aerosol dry deposition on PM concentrations in China.. <i>Science of the Total Environment</i> , 2022 , 154211	10.2	2
20	Comparison of Aerosol Optical Properties Between Two Nearby Urban Sites in Beijing, China. <i>Aerosol Science and Engineering</i> , 2017 , 1, 78-92	1.6	1
19	Large contribution of meteorological factors to inter-decadal changes in regional aerosol optical depth 2019 ,		1
18	Cirrus cloud properties measurement using lidar in Beijing 2016 ,		1
17	The optical, physical properties and direct radiative forcing of urban columnar aerosols in Yangtze River Delta, China 2017 ,		1

16	Impact of aerosols on warm clouds over the Sichuan Basin, China in winter based on the MERRA-2 reanalysis dataset. <i>Atmospheric Pollution Research</i> , 2022 , 13, 101342	4.5	1
15	Modulation of springtime surface sensible heating over the Tibetan Plateau on the interannual variability of East Asian dust cycle. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 11143-11159	6.8	1
14	Aerosols Direct Radiative Effects Combined Ground-Based Lidar and Sun-Photometer Observations: Cases Comparison between Haze and Dust Events in Beijing. <i>Remote Sensing</i> , 2022 , 14, 266	5	1
13	Mesoscale modeling study of the interactions between aerosols and PBL meteorology during a haze episode in China Jing-Jin-Ji and its near surrounding region [Part 1: Aerosol distributions and meteorological features		1
12	Global Aerosol Classification Based on Aerosol Robotic Network (AERONET) and Satellite Observation. <i>Remote Sensing</i> , 2021 , 13, 1114	5	1
11	Influences of atmospheric reanalysis on the accuracy of clear-sky irradiance estimates: Comparing MERRA-2 and CAMS. <i>Atmospheric Environment</i> , 2022 , 277, 119080	5.3	1
10	On the relationship between convective precipitation and aerosol pollution in North China Plain during autumn and winter. <i>Atmospheric Research</i> , 2022 , 271, 106120	5.4	1
9	Evaluation and Comparison of MODIS C6 and C6.1 Deep Blue Aerosol Products in Arid and Semi-Arid Areas of Northwestern China. <i>Remote Sensing</i> , 2022 , 14, 1935	5	1
8	The Different Impacts of Emissions and Meteorology on PM _{2.5} Changes in Various Regions in China: A Case Study. <i>Atmosphere</i> , 2022 , 13, 222	2.7	0
7	Aerosol Optical Radiation Properties in Kunming (the Low-Latitude Plateau of China) and Their Relationship to the Monsoon Circulation Index. <i>Remote Sensing</i> , 2019 , 11, 2911	5	0
6	Simulation of the influence of a fine-scale urban underlying surface on the urban heat island effect in Beijing. <i>Atmospheric Research</i> , 2021 , 262, 105786	5.4	0
5	Ground-Based MAX-DOAS Measurements of Tropospheric Aerosols, NO ₂ , and HCHO Distributions in the Urban Environment of Shanghai, China. <i>Remote Sensing</i> , 2022 , 14, 1726	5	0
4	Evaluation of aerosol microphysical, optical and radiative properties measured with a multiwavelength photometer. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2139-2158	4	0
3	A Comprehensive Study of a Winter Haze Episode over the Area around Bohai Bay in Northeast China: Insights from Meteorological Elements Observations of Boundary Layer. <i>Sustainability</i> , 2022 , 14, 5424	3.6	0
2	Heat stress in Beijing and its relationship with boundary layer structure and air pollution. <i>Atmospheric Environment</i> , 2022 , 119159	5.3	0
1	Classification of the Circulation Patterns Related to Strong Dust Weather in China Using a Combination of the Lamb-Jenkinson and k-Means Clustering Methods. <i>Atmosphere</i> , 2021 , 12, 1545	2.7	