Mechanism for the formation of the January 2013 heavy central and eastern China

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Citation Report

#	Article	IF	Citations
1	Elucidating severe urban haze formation in China. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17373-17378.	3.3	1,328
3	The Influence of Climate Factors, Meteorological Conditions, and Boundary-Layer Structure on Severe Haze Pollution in the Beijing-Tianjin-Hebei Region during January 2013. Advances in Meteorology, 2014, 2014, 1-14.	0.6	91
4	Fog Formation in Cold Season in Jiâ€™nan, China: Case Analyses with Application of HYSPLIT Model. Advances in Meteorology, 2014, 2014, 1-8.	0.6	5
5	Addressing the issue of fog and haze: A promising perspective from meteorological science and technology. Science China Earth Sciences, 2014, 57, 1-2.	2.3	68
6	Formation process of the widespread extreme haze pollution over northern China in January 2013: Implications for regional air quality and climate. Atmospheric Environment, 2014, 98, 417-425.	1.9	185
7	Mineral dust and NOx promote the conversion of SO2 to sulfate in heavy pollution days. Scientific Reports, 2014, 4, 4172.	1.6	426
8	Size-resolved aerosol chemical analysis of extreme haze pollution events during early 2013 in urban Beijing, China. Journal of Hazardous Materials, 2014, 279, 452-460.	6.5	167
9	Ash limitation of physical coal beneficiation for mediumâ€“high ash coalâ€”A geochemistry perspective. Fuel, 2014, 135, 83-90.	3.4	5
10	Integrated assessment of air quality and climate change for policy-making: highlights of IPCC AR5 and research challenges. National Science Review, 2014, 1, 176-179.	4.6	65
11	Severe haze episodes and seriously polluted fog water in Ji'nan, China. Science of the Total Environment, 2014, 493, 133-137.	3.9	71
12	Investigation of the sources and evolution processes of severe haze pollution in Beijing in January 2013. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4380-4398.	1.2	581
13	The effects of energy paths and emission controls and standards on future trends in China's emissions of primary air pollutants. Atmospheric Chemistry and Physics, 2014, 14, 8849-8868.	1.9	49
14	Seasonal variation of local atmospheric circulations and boundary layer structure in the Beijingâ€Tianjinâ€Hebei region and implications for air quality. Journal of Advances in Modeling Earth Systems, 2015, 7, 1602-1626.	1.3	119
15	Seasonal Fluctuations in Air Pollution in Dazaifu, Japan, and Effect of Long-Range Transport from Mainland East Asia. Biological and Pharmaceutical Bulletin, 2015, 38, 1395-1403.	0.6	20
16	Investigating the impact of haze on MODIS cloud detection. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12,237.	1.2	22
17	Modeling study of source contributions and emergency control effects during a severe haze episode over the Beijing-Tianjin-Hebei area. Science China Chemistry, 2015, 58, 1403-1415.	4.2	25
18	Long-range transport of mutagens and other air pollutants from mainland East Asia to western Japan. Genes and Environment, 2015, 37, 25.	0.9	18
19	Exploring the severe winter haze in Beijing: the impact of synoptic weather, regional transport and heterogeneous reactions. Atmospheric Chemistry and Physics, 2015, 15, 2969-2983.	1.9	843

#	Article	IF	Citations
20	Modeling the feedback between aerosol and meteorological variables in the atmospheric boundary layer during a severe fogâ€“haze event over the North China Plain. Atmospheric Chemistry and Physics, 2015, 15, 4279-4295.	1.9	187
21	Aerosol composition and sources during the Chinese Spring Festival: fireworks, secondary aerosol, and holiday effects. Atmospheric Chemistry and Physics, 2015, 15, 6023-6034.	1.9	126
22	Characterization of ambient volatile organic compounds and their sources in Beijing, before, during, and after Asia-Pacific Economic Cooperation China 2014. Atmospheric Chemistry and Physics, 2015, 15, 7945-7959.	1.9	110
23	A new indicator on the impact of large-scale circulation on wintertime particulate matter pollution over China. Atmospheric Chemistry and Physics, 2015, 15, 11919-11929.	1.9	69
24	Heterogeneous chemistry: a mechanism missing in current models to explain secondary inorganic aerosol formation during the January 2013 haze episode in North China. Atmospheric Chemistry and Physics, 2015, 15, 2031-2049.	1.9	481
25	Simulating aerosolâ€“radiationâ€“cloud feedbacks on meteorology and air quality over eastern China under severe haze conditionsin winter. Atmospheric Chemistry and Physics, 2015, 15, 2387-2404.	1.9	107
26	The Transport and Deposition of Nanoparticles in Respiratory System by Inhalation. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	52
27	Source Contributions of PM2.5in the Severe Haze Episode in Hebei Cities. Scientific World Journal, The, 2015, 2015, 1-11.	0.8	9
28	Aerosol physicochemical properties and implications for visibility during an intense haze episode during winter in Beijing. Atmospheric Chemistry and Physics, 2015, 15, 3205-3215.	1.9	131
29	Three-dimension scanning micro pulse lidar for detecting haze space distribution. , 2015, , .		0
30	Spatio-temporal variation of haze days and atmospheric circulation pattern in China (1961â€“2013). Quaternary International, 2015, 380-381, 14-21.	0.7	21
31	Gas-to-particle conversion of atmospheric ammonia and sampling artifacts of ammonium in spring of Beijing. Science China Earth Sciences, 2015, 58, 345-355.	2.3	38
32	Long-range transport and regional sources of PM2.5 in Beijing based on long-term observations from 2005 to 2010. Atmospheric Research, 2015, 157, 37-48.	1.8	168
33	On the severe haze in Beijing during January 2013: Unraveling the effects of meteorological anomalies with WRF-Chem. Atmospheric Environment, 2015, 104, 11-21.	1.9	130
34	Health impacts and economic losses assessment of the 2013 severe haze event in Beijing area. Science of the Total Environment, 2015, 511, 553-561.	3.9	237
35	Aerosol optical properties under the condition of heavy haze over an urban site of Beijing, China. Environmental Science and Pollution Research, 2015, 22, 1043-1053.	2.7	95
36	Secondary aerosol formation and oxidation capacity in photooxidation in the presence of Al2O3 seed particles and SO2. Science China Chemistry, 2015, 58, 1426-1434.	4.2	14
37	Comparisons of measured nitrous acid (HONO) concentrations in a pollution period at urban and suburban Beijing, in autumn of 2014. Science China Chemistry, 2015, 58, 1393-1402.	4.2	41

#	Article	IF	Citations
38	Source identification of water-soluble organic aerosols at a roadway site using a positive matrix factorization analysis. Science of the Total Environment, 2015, 533, 410-421.	3.9	43
39	Estimating long-term PM2.5 concentrations in China using satellite-based aerosol optical depth and a chemical transport model. Remote Sensing of Environment, 2015, 166, 262-270.	4.6	214
40	Averaging period effects on the turbulent flux and transport efficiency during haze pollution in Beijing, China. Meteorology and Atmospheric Physics, 2015, 127, 419-433.	0.9	3
41	Impact of meteorological conditions on a nine-day particulate matter pollution event observed in December 2013, Shanghai, China. Particuology, 2015, 20, 69-79.	2.0	53
42	Formation of Urban Fine Particulate Matter. Chemical Reviews, 2015, 115, 3803-3855.	23.0	988
43	Spatial distribution, seasonal variation and regionalization of PM2.5 concentrations in China. Science China Chemistry, 2015, 58, 1435-1443.	4.2	54
44	Chemical characteristics and light-absorbing property of water-soluble organic carbon in Beijing: Biomass burning contributions. Atmospheric Environment, 2015, 121, 4-12.	1.9	192
45	Effect of heterogeneous aqueous reactions on the secondary formation of inorganic aerosols during haze events. Atmospheric Environment, 2015, 122, 306-312.	1.9	116
46	Probing the severe haze pollution in three typical regions of China: Characteristics, sources and regional impacts. Atmospheric Environment, 2015, 120, 76-88.	1.9	106
47	Real-Time Characterization of Aerosol Particle Composition above the Urban Canopy in Beijing: Insights into the Interactions between the Atmospheric Boundary Layer and Aerosol Chemistry. Environmental Science & Technology, 2015, 49, 11340-11347.	4.6	124
48	Characterization of submicron aerosols and effect on visibility during a severe haze-fog episode in Yangtze River Delta, China. Atmospheric Environment, 2015, 120, 307-316.	1.9	123
49	Characteristics and Relationships between Indoor and Outdoor PM2.5 in Beijing: A Residential Apartment Case Study. Aerosol and Air Quality Research, 2016, 16, 2386-2395.	0.9	33
51	Regional Characteristics of Air Pollutants during Heavy Haze Events in the Yangtze River Delta, China. Aerosol and Air Quality Research, 2016, 16, 2159-2171.	0.9	15
52	Satellite and Ground Observations of Severe Air Pollution Episodes in the Winter of 2013 in Beijing, China. Aerosol and Air Quality Research, 2016, 16, 977-989.	0.9	19
53	Aerosol Optical Properties Based on Ground and Satellite Retrievals during a Serious Haze Episode in December 2015 over Beijing. Atmosphere, 2016, 7, 70.	1.0	24
54	Trans-boundary aerosol transport during a winter haze episode in China revealed by ground-based Lidar and CALIPSO satellite. Atmospheric Environment, 2016, 141, 20-29.	1.9	66
55	Did the widespread haze pollution over China increase during the last decade? A satellite view from space. Environmental Research Letters, 2016, 11, 054019.	2.2	49
56	Decadal variability in the occurrence of wintertime haze in central eastern China tied to the Pacific Decadal Oscillation. Scientific Reports, 2016, 6, 27424.	1.6	70

#	Article	IF	Citations
57	Molecular composition of urban organic aerosols on clear and hazy days in Beijing: a comparative study using FT-ICR MS. Environmental Chemistry, 2016, 13, 888.	0.7	66
58	Rapid formation and evolution of an extreme haze episode in Northern China during winter 2015. Scientific Reports, 2016, 6, 27151.	1.6	162
59	On the source contribution to Beijing PM2.5 concentrations. Atmospheric Environment, 2016, 134, 84-95.	1.9	146
60	Assessment of the impact of emissions reductions on air quality over North China Plain. Atmospheric Pollution Research, 2016, 7, 249-259.	1.8	23
61	Episode-Based Evolution Pattern Analysis of Haze Pollution: Method Development and Results from Beijing, China. Environmental Science & Technology, 2016, 50, 4632-4641.	4.6	100
62	Characterizing Urban Turbulence Under Haze Pollution: Insights into Temperatureâ€“Humidity Dissimilarity. Boundary-Layer Meteorology, 2016, 158, 501-510.	1.2	9
63	Characterization and source apportionment of PM2.5-bound polycyclic aromatic hydrocarbons from Shanghai city, China. Environmental Pollution, 2016, 218, 118-128.	3.7	114
64	Characteristics of PM2.5 concentrations across Beijing during 2013â€“2015. Atmospheric Environment, 2016, 145, 104-114.	1.9	51
65	Increase in winter haze over eastern China in recent decades: Roles of variations in meteorological parameters and anthropogenic emissions. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,050.	1.2	159
66	Investigation of the atmospheric mesoscale circulation patterns and their simulation with WRF-CHEM model of the dust storm occurrence over the southern coast of the Caspian Sea. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	3
67	Improving simulations of sulfate aerosols during winter haze over Northern China: the impacts of heterogeneous oxidation by NO2. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	47
68	Particle Motion Induced by Electrostatic Force of a Charged Droplet. Environmental Engineering Science, 2016, 33, 650-658.	0.8	17
69	Estimation of daily PM 2.5 concentration and its relationship with meteorological conditions in Beijing. Journal of Environmental Sciences, 2016, 48, 161-168.	3.2	64
70	Satellite-based ground PM2.5 estimation using timely structure adaptive modeling. Remote Sensing of Environment, 2016, 186, 152-163.	4.6	164
71	Vertical structure of foggy haze over the Beijingâ€“Tianjinâ€“Hebei area in January 2013. Atmospheric Environment, 2016, 139, 192-204.	1.9	18
72	Long-term trend and spatial pattern of PM2.5 induced premature mortality in China. Environment International, 2016, 97, 180-186.	4.8	133
73	Source and formation characteristics of water-soluble organic carbon in the anthropogenic-influenced Yellow River Delta, North China. Atmospheric Environment, 2016, 144, 124-132.	1.9	16
74	Experimental Study on the Influence of Ventilated Window on Indoor Air Quality and Energy Consumption. Procedia Engineering, 2016, 146, 296-302.	1.2	9

#	Article	IF	Citations
75	Distinct impact of different types of aerosols on surface solar radiation in China. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6459-6471.	1.2	123
76	Characterization and source apportionment of size-segregated atmospheric particulate matter collected at ground level and from the urban canopy in Tianjin. Environmental Pollution, 2016, 219, 982-992.	3.7	42
77	Contribution of Atmospheric Diffusion Conditions to the Recent Improvement in Air Quality in China. Scientific Reports, 2016, 6, 36404.	1.6	47
78	Transmission and division of total optical depth method: A universal calibration method for Sun photometric measurements. Geophysical Research Letters, 2016, 43, 2974-2980.	1.5	15
79	Simulations of sulfateâ€“nitrateâ€“ammonium (SNA) aerosols during the extreme haze events over northern China in October 2014. Atmospheric Chemistry and Physics, 2016, 16, 10707-10724.	1.9	100
80	Primary and secondary aerosols in Beijing in winter: sources, variations and processes. Atmospheric Chemistry and Physics, 2016, 16, 8309-8329.	1.9	288
81	Impacts of historical climate and land cover changes on fine particulate matter (PM_{2.5}) air quality in East Asia between 1980 and 2010. Atmospheric Chemistry and Physics, 2016, 16, 10369-10383.	1.9	27
82	Distribution and sources of air pollutants in the North China Plain based on on-road mobile measurements. Atmospheric Chemistry and Physics, 2016, 16, 12551-12565.	1.9	22
83	Improving aerosol interaction with clouds and precipitation in a regional chemical weather modeling system. Atmospheric Chemistry and Physics, 2016, 16, 145-160.	1.9	23
84	Modeling study of the 2010 regional haze event in the North China Plain. Atmospheric Chemistry and Physics, 2016, 16, 1673-1691.	1.9	194
85	Characteristics of aerosol pollution during heavy haze events in Suzhou, China. Atmospheric Chemistry and Physics, 2016, 16, 7357-7371.	1.9	92
87	Redefining the importance of nitrate during haze pollution to help optimize an emission control strategy. Atmospheric Environment, 2016, 141, 197-202.	1.9	90
88	â€œAPEC Blueâ€•association with emission control and meteorological conditions detected by multi-scale statistics. Atmospheric Research, 2016, 178-179, 497-505.	1.8	21
89	Mixing state of ambient aerosols in Nanjing city by single particle mass spectrometry. Atmospheric Environment, 2016, 132, 123-132.	1.9	26
90	Fossil Fuel Combustion-Related Emissions Dominate Atmospheric Ammonia Sources during Severe Haze Episodes: Evidence from ¹⁵N-Stable Isotope in Size-Resolved Aerosol Ammonium. Environmental Science & Technology, 2016, 50, 8049-8056.	4.6	261
91	Intensification of aerosol pollution associated with its feedback with surface solar radiation and winds in Beijing. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4093-4099.	1.2	129
92	Sectoral co-control of air pollutants: case of a chlor-alkali/polyvinyl chloride sector in China. Journal of Cleaner Production, 2016, 112, 1667-1675.	4.6	17
93	Application of Weather Research and Forecasting Model with Chemistry (WRF/Chem) over northern China: Sensitivity study, comparative evaluation, and policy implications. Atmospheric Environment, 2016, 124, 337-350.	1.9	60

#	Article	IF	Citations
94	â€œWhat We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Healthâ€• Environmental Science & Technology, 2016, 50, 4895-4904.	4.6	294
95	Spatial-temporal characteristics and determinants of PM2.5 in the Bohai Rim Urban Agglomeration. Chemosphere, 2016, 148, 148-162.	4.2	170
96	Heavy haze episodes in Beijing during January 2013: Inorganic ion chemistry and source analysis using highly time-resolved measurements from an urban site. Science of the Total Environment, 2016, 544, 319-329.	3.9	102
97	Distinct potential aerosol masses under different scenarios of transport at a suburban site of Beijing. Journal of Environmental Sciences, 2016, 39, 52-61.	3.2	13
98	Public awareness and willingness to pay for tackling smog pollution inÂChina: a case study. Journal of Cleaner Production, 2016, 112, 1627-1634.	4.6	164
99	Mixing ratio and carbon isotopic composition investigation of atmospheric CO 2 in Beijing, China. Science of the Total Environment, 2016, 539, 322-330.	3.9	33
100	Source appointment of fine particle number and volume concentration during severe haze pollution in Beijing in January 2013. Environmental Science and Pollution Research, 2016, 23, 6845-6860.	2.7	50
101	Study on the dynamic and thermal performances of a reversibly used cooling tower with upward spraying. Energy, 2016, 96, 268-277.	4.5	32
102	Annual and diurnal variations of gaseous and particulate pollutants in 31 provincial capital cities based on in situ air quality monitoring data from China National Environmental Monitoring Center. Environment International, 2016, 86, 92-106.	4.8	259
103	Seasonal variation and secondary formation of size-segregated aerosol water-soluble inorganic ions during pollution episodes in Beijing. Atmospheric Research, 2016, 168, 70-79.	1.8	139
104	Characteristics of the water-soluble components of aerosol particles in Hefei, China. Journal of Environmental Sciences, 2016, 42, 32-40.	3.2	46
105	Wintertime haze deterioration in Beijing by industrial pollution deduced from trace metal fingerprints and enhanced health risk by heavy metals. Environmental Pollution, 2016, 208, 284-293.	3.7	95
106	Characteristics of aerosol size distributions and chemical compositions during wintertime pollution episodes in Beijing. Atmospheric Research, 2016, 168, 1-12.	1.8	87
107	Study on the synoptic flow patterns and boundary layer process of the severe haze events over the North China Plain in January 2013. Atmospheric Environment, 2016, 124, 129-145.	1.9	139
108	Chemical characteristics of PM2.5 during haze episodes in spring 2013 in Beijing. Urban Climate, 2017, 22, 51-63.	2.4	26
109	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	3.9	93
110	Heavy pollution episodes, transport pathways and potential sources of PM2.5 during the winter of 2013 in Chengdu (China). Science of the Total Environment, 2017, 584-585, 1056-1065.	3.9	165
111	Regional transport of anthropogenic pollution and dust aerosols in spring to Tianjin â€” A coastal megacity in China. Science of the Total Environment, 2017, 584-585, 381-392.	3.9	12

#	Article	IF	Citations
112	Review of receptor-based source apportionment research of fine particulate matter and its challenges in China. Science of the Total Environment, 2017, 586, 917-929.	3.9	159
113	Heterogeneous Nucleation of Trichloroethylene Ozonation Products in the Formation of New Fine Particles. Scientific Reports, 2017, 7, 42600.	1.6	4
114	Atmospheric Nitrogen Emission, Deposition, and Air Quality Impacts in China: an Overview. Current Pollution Reports, 2017, 3, 65-77.	3.1	61
115	Health risk assessment of Chinaâ€™s main air pollutants. BMC Public Health, 2017, 17, 212.	1.2	26
116	Characteristics of the secondary water-soluble ions in a typical autumn haze in Beijing. Environmental Pollution, 2017, 227, 296-305.	3.7	89
117	The impact of household cooking and heating with solid fuels on ambient PM 2.5 in peri-urban Beijing. Atmospheric Environment, 2017, 165, 62-72.	1.9	36
118	Relay transport of aerosols to Beijing-Tianjin-Hebei region by multi-scale atmospheric circulations. Atmospheric Environment, 2017, 165, 35-45.	1.9	73
119	Spatio-temporal variation and influence factors of PM 2.5 concentrations in China from 1998 to 2014. Atmospheric Pollution Research, 2017, 8, 1151-1159.	1.8	116
120	Trends of PM 2.5 concentrations in China: A long term approach. Journal of Environmental Management, 2017, 196, 719-732.	3.8	87
121	Mass extinction efficiency and extinction hygroscopicity of ambient PM2.5 in urban China. Environmental Research, 2017, 156, 239-246.	3.7	26
122	Analysis of the characteristics of single atmospheric particles in Chengdu using single particle mass spectrometry. Atmospheric Environment, 2017, 157, 91-100.	1.9	31
123	Important fossil source contribution to brown carbon in Beijing during winter. Scientific Reports, 2017, 7, 43182.	1.6	111
124	Characteristics and origins of air pollutants and carbonaceous aerosols during wintertime haze episodes at a rural site in the Yangtze River Delta, China. Atmospheric Pollution Research, 2017, 8, 900-911.	1.8	21
125	Arctic sea ice, Eurasia snow, and extreme winter haze in China. Science Advances, 2017, 3, e1602751.	4.7	181
126	Elevated production of NH 4 NO 3 from the photochemical processing of vehicle exhaust: Implications for air quality in the Seoul Metropolitan Region. Atmospheric Environment, 2017, 156, 95-101.	1.9	59
127	The impact of relative humidity on the size distribution and chemical processes of major water-soluble inorganic ions in the megacity of Chongqing, China. Atmospheric Research, 2017, 192, 19-29.	1.8	15
128	Mortality and air pollution in Beijing: The long-term relationship. Atmospheric Environment, 2017, 150, 238-243.	1.9	69
129	Gasâ€“particle phase partitioning and particle size distribution of chlorinated and brominated polycyclic aromatic hydrocarbons in haze. Environmental Pollution, 2017, 231, 1601-1608.	3.7	39

#	Article	IF	Citations
130	High N₂O₅ Concentrations Observed in Urban Beijing: Implications of a Large Nitrate Formation Pathway. Environmental Science and Technology Letters, 2017, 4, 416-420.	3.9	167
131	Chemical Composition During Severe Haze Events in Northern China. , 2017, , 245-264.		0
132	Predicting Air Pollution in East Asia. , 2017, , 387-403.		1
133	Stable low resistance air filter under high humidity endowed by self-emission far-infrared for effective PM2.5 capture. Composites Communications, 2017, 6, 29-33.	3.3	22
134	Distinguishing the roles of meteorology, emission control measures, regional transport, and co-benefits of reduced aerosol feedbacks in â€œAPEC Blueâ€• Atmospheric Environment, 2017, 167, 476-486.	1.9	40
135	Model elucidating the sources and formation mechanisms of severe haze pollution over Northeast mega-city cluster in China. Environmental Pollution, 2017, 230, 692-700.	3.7	51
136	Quantification of the impact of aerosol on broadband solar radiation in North China. Scientific Reports, 2017, 7, 44851.	1.6	45
137	Characteristics and source apportionment of PM 2.5 during persistent extreme haze events in Chengdu, southwest China. Environmental Pollution, 2017, 230, 718-729.	3.7	126
138	Aerosol optical properties observation and its relationship to meteorological conditions and emission during the Chinese National Day and Spring Festival holiday in Beijing. Atmospheric Research, 2017, 197, 188-200.	1.8	23
139	Pathways for energy conservation and emissions mitigation in road transport up to 2030: A case study of the Jing-Jin-Ji area, China. Journal of Cleaner Production, 2017, 162, 882-893.	4.6	38
140	Comprehensive evaluation and analysis on air quality of guangzhou city under haze-fog pollution. , 2017, , .		1
141	Synergistic effect among Cl2, SO2 and NO2 in their heterogeneous reactions on gamma-alumina. Atmospheric Environment, 2017, 166, 403-411.	1.9	13
142	Formation, features and controlling strategies of severe haze-fog pollutions in China. Science of the Total Environment, 2017, 578, 121-138.	3.9	245
143	A comparison study of carbonaceous aerosols in a typical North China Plain urban atmosphere: Seasonal variability, sources and implications to haze formation. Atmospheric Environment, 2017, 149, 95-103.	1.9	37
144	Assessment of the first indirect radiative effect of ammonium-sulfate-nitrate aerosols in East Asia. Theoretical and Applied Climatology, 2017, 130, 817-830.	1.3	2
145	Modeling high aerosol loads in China in January 2013. Urban Climate, 2017, 22, 35-50.	2.4	3
146	The contribution of residential coal combustion to atmospheric PM_{2.â€‰5} in northern China during winter. Atmospheric Chemistry and Physics, 2017, 17, 11503-11520.	1.9	65
147	Chemical characterization and source identification of PM_{2.5} at multiple sites in the Beijingâ€“Tianjinâ€“Hebei region, China. Atmospheric Chemistry and Physics, 2017, 17, 12941-12962.	1.9	178

#	Article	IF	Citations
148	A review of current knowledge concerning PM_{2.â€‰5} chemical composition, aerosol optical properties and their relationships across China. Atmospheric Chemistry and Physics, 2017, 17, 9485-9518.	1.9	280
149	Understanding PM2.5 sources in China: challenges and perspectives. National Science Review, 2017, 4, 801-803.	4.6	29
151	Scale- and Region-Dependence in Landscape-PM2.5 Correlation: Implications for Urban Planning. Remote Sensing, 2017, 9, 918.	1.8	64
152	Influence of Road Patterns on PM2.5 Concentrations and the Available Solutions: The Case of Beijing City, China. Sustainability, 2017, 9, 217.	1.6	19
153	Temporal and Spatial Patterns of Chinaâ€™s Main Air Pollutants: Years 2014 and 2015. Atmosphere, 2017, 8, 137.	1.0	29
154	Optical and radiative properties of aerosols during a severe haze episode over the North China Plain in December 2016. Journal of Meteorological Research, 2017, 31, 1045-1061.	0.9	12
156	The Effect of Meteorological Elements on Continuing Heavy Air Pollution: A Case Study in the Chengdu Area during the 2014 Spring Festival. Atmosphere, 2017, 8, 71.	1.0	37
157	Urbanization effect on trends in sunshine duration in China. Annales Geophysicae, 2017, 35, 839-851.	0.6	18
158	Formation Mechanism of Atmospheric Ammonium Bisulfate: Hydrogenâ€Bondâ€Promoted Nearly Barrierless Reactions of SO₃ with NH₃ and H₂O. ChemPhysChem, 2018, 19, 967-972.	1.0	18
159	Comparison of Submicron Particles at a Rural and an Urban Site in the North China Plain during the December 2016 Heavy Pollution Episodes. Journal of Meteorological Research, 2018, 32, 26-37.	0.9	18
160	High-resolution satellite remote sensing of provincial PM2.5 trends in China from 2001 to 2015. Atmospheric Environment, 2018, 180, 110-116.	1.9	117
161	Three-year, 5â€‾km resolution China PM 2.5 simulation: Model performance evaluation. Atmospheric Research, 2018, 207, 1-13.	1.8	13
162	The characteristics of abnormal wintertime pollution events in the Jing-Jin-Ji region and its relationships with meteorological factors. Science of the Total Environment, 2018, 626, 887-898.	3.9	71
163	New positive feedback mechanism between boundary layer meteorology and secondary aerosol formation during severe haze events. Scientific Reports, 2018, 8, 6095.	1.6	78
164	The spatial representativeness of mixing layer height observations in the North China Plain. Atmospheric Research, 2018, 209, 204-211.	1.8	16
165	Characterization, mixing state, and evolution of single particles in a megacity of Sichuan Basin, southwest China. Atmospheric Research, 2018, 209, 179-187.	1.8	28
166	An analysis of chemical and meteorological characteristics of haze events in the Seoul metropolitan area during January 12â€“18, 2013. Atmospheric Environment, 2018, 178, 87-100.	1.9	22
167	Correlating PM2.5 concentrations with air pollutant emissions: A longitudinal study of the Beijing-Tianjin-Hebei region. Journal of Cleaner Production, 2018, 179, 103-113.	4.6	52

#	Article	IF	Citations
168	Recent intensification of winter haze in China linked to foreign emissions and meteorology. Scientific Reports, 2018, 8, 2107.	1.6	48
169	Secondary inorganic aerosols formation during haze episodes at an urban site in Beijing, China. Atmospheric Environment, 2018, 177, 275-282.	1.9	116
170	The January 2013 Beijing â€œAirpocalypseâ€•and its acute effects on emergency and outpatient visits at a Beijing hospital. Air Quality, Atmosphere and Health, 2018, 11, 301-309.	1.5	14
171	Red warning for air pollution in China: Exploring residents' perceptions of the first two red warnings in Beijing. Environmental Research, 2018, 161, 540-545.	3.7	11
172	Seasonal variability and source distribution of haze particles from a continuous one-year study in Beijing. Atmospheric Pollution Research, 2018, 9, 627-633.	1.8	14
173	Assessment of the regional source contributions to PM2.5 mass concentration in Beijing. Atmospheric and Oceanic Science Letters, 2018, 11, 143-149.	0.5	10
174	Emission or atmospheric processes? An attempt to attribute the source of large bias of aerosols in eastern China simulated by global climate models. Atmospheric Chemistry and Physics, 2018, 18, 1395-1417.	1.9	32
175	Investigations of temporal and spatial distribution of precursors SO₂ and NO₂ vertical columns in the North China Plain using mobile DOAS. Atmospheric Chemistry and Physics, 2018, 18, 1535-1554.	1.9	32
176	The effects of El NiÃ±oâ€“Southern Oscillation on the winter haze pollution of China. Atmospheric Chemistry and Physics, 2018, 18, 1863-1877.	1.9	66
177	Multiphase oxidation of SO₂ by NO₂ on CaCO₃ particles. Atmospheric Chemistry and Physics, 2018, 18, 2481-2493.	1.9	52
178	Vertically resolved characteristics of air pollution during two severe winter haze episodes in urban Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 2495-2509.	1.9	69
179	Characteristics and source apportionment of fine haze aerosol in Beijing during the winter of 2013. Atmospheric Chemistry and Physics, 2018, 18, 2573-2584.	1.9	37
180	Dome effect of black carbon and its key influencing factors: aÂone-dimensional modelling study. Atmospheric Chemistry and Physics, 2018, 18, 2821-2834.	1.9	124
181	Observational analyses of dramatic developments of aÂsevere air pollution event in the Beijing area. Atmospheric Chemistry and Physics, 2018, 18, 3919-3935.	1.9	39
182	Mixing layer height on the North China Plain and meteorological evidence of serious air pollution in southern Hebei. Atmospheric Chemistry and Physics, 2018, 18, 4897-4910.	1.9	78
183	Influences of accumulated mileage and technological changes on emissions of regulated pollutants from gasoline passenger vehicles. Journal of Environmental Sciences, 2018, 71, 197-206.	3.2	25
184	Chemical Components, Variation, and Source Identification of PM1 during the Heavy Air Pollution Episodes in Beijing in December 2016. Journal of Meteorological Research, 2018, 32, 1-13.	0.9	28
185	Understanding the Patterns and Drivers of Air Pollution on Multiple Time Scales: The Case of Northern China. Environmental Management, 2018, 61, 1048-1061.	1.2	25

#	Article	IF	Citations
186	Evolution of the spatiotemporal pattern of PM2.5 concentrations in China â€“ A case study from the Beijing-Tianjin-Hebei region. Atmospheric Environment, 2018, 183, 225-233.	1.9	188
187	Heavy aerosol pollution episodes in winter Beijing enhanced by radiative cooling effects of aerosols. Atmospheric Research, 2018, 209, 59-64.	1.8	74
188	Exploring the Association between Urban Form and Air Quality in China. Journal of Planning Education and Research, 2018, 38, 413-426.	1.5	64
189	The contribution of socioeconomic factors to PM2.5 pollution in urban China. Environmental Pollution, 2018, 233, 977-985.	3.7	95
190	Characteristics and formation of typical winter haze in Handan, one of the most polluted cities in China. Science of the Total Environment, 2018, 613-614, 1367-1375.	3.9	50
191	Integrated Phosphorus Management Improves Production of Riceâ€“Wheat Cropping-System Under Salt Affected Conditions. International Journal of Plant Production, 2018, 12, 25-32.	1.0	6
192	Effects of the modified kaolin sorbents on the reduction of ultrafine particulate matter (PM0.2) emissions during pulverized coal combustion. Fuel, 2018, 215, 153-160.	3.4	41
193	New insight into PM2.5 pollution patterns in Beijing based on one-year measurement of chemical compositions. Science of the Total Environment, 2018, 621, 734-743.	3.9	78
194	NO promotion of SO2 conversion to sulfate: An important mechanism for the occurrence of heavy haze during winter in Beijing. Environmental Pollution, 2018, 233, 662-669.	3.7	82
195	Source apportionment of PM 2.5 at the Lin'an regional background site in China with three receptor models. Atmospheric Research, 2018, 202, 23-32.	1.8	74
196	Haze variation in valley region its affecting factors. IOP Conference Series: Earth and Environmental Science, 2018, 113, 012030.	0.2	0
197	The Impact of Vehicle Exhaust on PM2.5 Concentration in Cities in Northeast China. IOP Conference Series: Materials Science and Engineering, 2018, 392, 042027.	0.3	2
198	Estimates of Daily PM2.5 Exposure in Beijing Using Spatio-Temporal Kriging Model. Sustainability, 2018, 10, 2772.	1.6	16
200	Insignificant effect of climate change on winter haze pollution in Beijing. Atmospheric Chemistry and Physics, 2018, 18, 17489-17496.	1.9	37
201	Variability of depolarization of aerosol particles in the megacity of Beijing: implications for the interaction between anthropogenic pollutants and mineral dust particles. Atmospheric Chemistry and Physics, 2018, 18, 18203-18217.	1.9	17
202	Nocturnal Low-level Winds and Their Impacts on Particulate Matter over the Beijing Area. Advances in Atmospheric Sciences, 2018, 35, 1455-1468.	1.9	16
203	Water-soluble ions in PM2.5 during spring haze and dust periods in Chengdu, China: Variations, nitrate formation and potential source areas. Environmental Pollution, 2018, 243, 1740-1749.	3.7	49
204	Impact of low-pressure systems on winter heavy air pollution in the northwest Sichuan Basin, China. Atmospheric Chemistry and Physics, 2018, 18, 13601-13615.	1.9	101

#	Article	IF	Citations
205	Spatiotemporal Variations and Influencing Factors Analysis of PM2.5 Concentrations in Jilin Province, Northeast China. Chinese Geographical Science, 2018, 28, 810-822.	1.2	13
206	Modulation of the ENSO on Winter Aerosol Pollution in the Eastern Region of China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,952.	1.2	19
208	Can the Direct Effect of Aerosols Improve Subseasonal Predictability?. Monthly Weather Review, 2018, 146, 3481-3498.	0.5	28
209	Volatile organic compounds at a rural site in Beijing: influence of temporary emission control and wintertime heating. Atmospheric Chemistry and Physics, 2018, 18, 12663-12682.	1.9	64
211	Health Impacts of Exposure to Gaseous Pollutants and Particulate Matter in Beijingâ€"A Non-Linear Analysis Based on the New Evidence. International Journal of Environmental Research and Public Health, 2018, 15, 1969.	1.2	7
212	Interannual variation in the number and severity of autumnal haze days in the Beijingâ€"Tianjinâ€"Hebei region and associated atmospheric circulation anomalies. Dynamics of Atmospheres and Oceans, 2018, 84, 1-9.	0.7	16
213	Quantifying PM2.5 from long-range transport and local pollution in Taiwan during winter monsoon: An efficient estimation method. Journal of Environmental Management, 2018, 227, 10-22.	3.8	31
214	A proposed methodology for impact assessment of air quality traffic-related measures: The case of PM2.5 in Beijing. Environmental Pollution, 2018, 239, 818-828.	3.7	7
215	Urbanization Effect on Winter Haze in the Yangtze River Delta Region of China. Geophysical Research Letters, 2018, 45, 6710-6718.	1.5	37
216	Quantifying the influence of natural and socioeconomic factors and their interactive impact on PM2.5 pollution in China. Environmental Pollution, 2018, 241, 475-483.	3.7	120
217	Characterizing remarkable changes of severe haze events and chemical compositions in multi-size airborne particles (PM1, PM2.5 and PM10) from January 2013 to 2016â€"2017 winter in Beijing, China. Atmospheric Environment, 2018, 189, 133-144.	1.9	128
218	Source apportionment of organic aerosol from 2-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 8469-8489.	1.9	110
219	Spatiotemporal Characteristics of Air Pollutants (PM10, PM2.5, SO2, NO2, O3, and CO) in the Inland Basin City of Chengdu, Southwest China. Atmosphere, 2018, 9, 74.	1.0	75
220	Theoretical Urban Heat Island Circulation in the Temperature Inversion Profile. Atmosphere, 2018, 9, 98.	1.0	4
221	PM2.5 Characteristics and Regional Transport Contribution in Five Cities in Southern North China Plain, During 2013â€"2015. Atmosphere, 2018, 9, 157.	1.0	20
222	Comparison of Two Air Pollution Episodes over Northeast China in Winter 2016/17 Using Ground-Based Lidar. Journal of Meteorological Research, 2018, 32, 313-323.	0.9	19
223	Simulating Aerosol Size Distribution and Mass Concentration with Simultaneous Nucleation, Condensation/Coagulation, and Deposition with the GRAPESâ€"CUACE. Journal of Meteorological Research, 2018, 32, 265-278.	0.9	10
224	Boundary-layer features and regional transport process of an extreme haze pollution event in Nanjing, China. Atmospheric Pollution Research, 2018, 9, 1088-1099.	1.8	18

#	Article	IF	Citations
225	Characteristics of Boundary Layer Structure during a Persistent Haze Event in the Central Liaoning City Cluster, Northeast China. Journal of Meteorological Research, 2018, 32, 302-312.	0.9	24
226	The formation and growth of calcium sulfate crystals through oxidation of SO₂by O₃on size-resolved calcium carbonate. RSC Advances, 2018, 8, 16285-16293.	1.7	9
227	Distinguishing Emission-Associated Ambient Air PM_{2.5} Concentrations and Meteorological Factor-Induced Fluctuations. Environmental Science & Technology, 2018, 52, 10416-10425.	4.6	48
228	Characteristics of PM_{2.5} mass concentrations and chemical species in urban and background areas of China: emerging results from the CARE-China network. Atmospheric Chemistry and Physics, 2018, 18, 8849-8871.	1.9	144
229	The driving factors of air quality index in China. Journal of Cleaner Production, 2018, 197, 1342-1351.	4.6	129
230	Aerosols in an arid environment: The role of aerosol water content, particulate acidity, precursors, and relative humidity on secondary inorganic aerosols. Science of the Total Environment, 2019, 646, 564-572.	3.9	46
231	Air pollution characteristics in China during 2015â€“2016: Spatiotemporal variations and key meteorological factors. Science of the Total Environment, 2019, 648, 902-915.	3.9	188
232	Effect of model errors in ambient air humidity on the aerosol optical depth obtained via aerosol hygroscopicity in eastern China in the Atmospheric Chemistry and Climate Model Intercomparison Project datasets. Atmospheric and Oceanic Science Letters, 2019, 12, 162-169.	0.5	2
233	Photochemical impacts of haze pollution in an urban environment. Atmospheric Chemistry and Physics, 2019, 19, 9699-9714.	1.9	32
234	Comparison of water-soluble inorganic ions and trace metals in PM2.5 between online and offline measurements in Beijing during winter. Atmospheric Pollution Research, 2019, 10, 1755-1765.	1.8	37
235	Two typical weather patterns of persistent heavy pollution in Beijing - Tianjin - Hebei. IOP Conference Series: Earth and Environmental Science, 2019, 227, 052018.	0.2	0
236	Is water vapor a key player of the wintertime haze in North China Plain?. Atmospheric Chemistry and Physics, 2019, 19, 8721-8739.	1.9	45
237	Chemistry-triggered events of PM2.5 explosive growth during late autumn and winter in Shanghai, China. Environmental Pollution, 2019, 254, 112864.	3.7	44
238	Seasonal effects of additional HONO sources and the heterogeneous reactions of N2O5 on nitrate in the North China Plain. Science of the Total Environment, 2019, 690, 97-107.	3.9	24
239	Observation and Source Apportionment of Trace Gases, Water-Soluble Ions and Carbonaceous Aerosol During a Haze Episode in Wuhan. Atmosphere, 2019, 10, 397.	1.0	4
240	The formation mechanism of air pollution episodes in Beijing city: Insights into the measured feedback between aerosol radiative forcing and the atmospheric boundary layer stability. Science of the Total Environment, 2019, 692, 371-381.	3.9	53
241	Impact of planetary boundary layer structure on the formation and evolution of air-pollution episodes in Shenyang, Northeast China. Atmospheric Environment, 2019, 214, 116850.	1.9	73
242	Evolution of aqSOA from the Airâ€“Liquid Interfacial Photochemistry of Glyoxal and Hydroxyl Radicals. Environmental Science & Technology, 2019, 53, 10236-10245.	4.6	28

#	Article	IF	Citations
243	Impact of particle number and mass size distributions of major chemical components on particle mass scattering efficiency in urban Guangzhou in southern China. Atmospheric Chemistry and Physics, 2019, 19, 8471-8490.	1.9	30
244	Differences in carbonaceous aerosol of fine particles between haze and non-haze days, Beijing. IOP Conference Series: Earth and Environmental Science, 2019, 349, 012003.	0.2	0
245	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015â€“2018/2019. Environmental Science and Technology Letters, 2019, 6, 752-760.	3.9	56
246	Characterization of aerosol size distributions and chemical compositions under strong wind and stagnant conditions during haze episodes in Linâ€™an, China. Air Quality, Atmosphere and Health, 2019, 12, 1469-1481.	1.5	4
247	Multiple technical observations of the atmospheric boundary layer structure of a red-alert haze episode in Beijing. Atmospheric Measurement Techniques, 2019, 12, 4887-4901.	1.2	20
248	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. Atmospheric Measurement Techniques, 2019, 12, 4091-4112.	1.2	4
249	Assessing the formation and evolution mechanisms of severe haze pollution in the Beijingâ€“Tianjinâ€“Hebei region using process analysis. Atmospheric Chemistry and Physics, 2019, 19, 10845-10864.	1.9	56
250	Fine particulate matter (PM_{2.5}) trends in China, 2013â€“2018: separating contributions from anthropogenic emissions and meteorology. Atmospheric Chemistry and Physics, 2019, 19, 11031-11041.	1.9	442
251	Trends in particulate matter and its chemical compositions in China from 2013â€“2017. Science China Earth Sciences, 2019, 62, 1857-1871.	2.3	111
252	Comparison of the turbulence structure during light and heavy haze pollution episodes. Atmospheric Research, 2019, 230, 104645.	1.8	31
253	Dominant Synoptic Patterns and Their Relationships with PM2.5 Pollution in Winter over the Beijing-Tianjin-Hebei and Yangtze River Delta Regions in China. Journal of Meteorological Research, 2019, 33, 765-776.	0.9	11
254	Investigation of long-range transported PM2.5 events over Northern Taiwan during 2005â€“2015 winter seasons. Atmospheric Environment, 2019, 217, 116920.	1.9	10
256	Relative humidity and O₃ concentration as two prerequisites for sulfate formation. Atmospheric Chemistry and Physics, 2019, 19, 12295-12307.	1.9	39
257	Dominant variables of global air pollution-climate interaction: Geographic insight. Ecological Indicators, 2019, 99, 251-260.	2.6	35
258	Exploring the influence of severe haze pollution on residents' intention to purchase energy-saving appliances. Journal of Cleaner Production, 2019, 212, 1536-1543.	4.6	64
259	Reflections on the threshold for PM_{2.5} explosive growth in the cumulative stage of winter heavy aerosol pollution episodes (HPEs) in Beijing. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1528134.	0.8	22
260	Predicting the Impact of Climate Change on Severe Wintertime Particulate Pollution Events in Beijing Using Extreme Value Theory. Geophysical Research Letters, 2019, 46, 1824-1830.	1.5	21
261	Identifying the contributions of multiple driving forces to PM10â€“2.5 pollution in urban areas in China. Science of the Total Environment, 2019, 663, 361-368.	3.9	15

#	Article	IF	Citations
262	Characteristics of fine particle explosive growth events in Beijing, China: Seasonal variation, chemical evolution pattern and formation mechanism. Science of the Total Environment, 2019, 687, 1073-1086.	3.9	61
263	Microbial aerosol chemistry characteristics in highly polluted air. Science China Chemistry, 2019, 62, 1051-1063.	4.2	34
264	Quantifying the Impacts of Cold Airmass on Aerosol Concentrations Over North China Using Isentropic Analysis. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7308-7326.	1.2	9
265	Effects of turbulence structure and urbanization on the heavy haze pollution process. Atmospheric Chemistry and Physics, 2019, 19, 1041-1057.	1.9	45
266	Two pathways of how remote SST anomalies drive the interannual variability of autumnal haze days in the Beijingâ€“Tianjinâ€“Hebei region, China. Atmospheric Chemistry and Physics, 2019, 19, 1521-1535.	1.9	42
267	Potential impacts of cold frontal passage on air quality over the Yangtze River Delta, China. Atmospheric Chemistry and Physics, 2019, 19, 3673-3685.	1.9	78
268	Retrospective analysis of 2015â€“2017 wintertime PM_{2.5} in China: response to emission regulations and the role of meteorology. Atmospheric Chemistry and Physics, 2019, 19, 7409-7427.	1.9	41
269	Ensemble forecasts of air quality in eastern China â€“ Part 2: Evaluation of the MarcoPoloâ€“Panda prediction system, version 1. Geoscientific Model Development, 2019, 12, 1241-1266.	1.3	25
270	Links Between the Largeâ€Scale Circulation and Daily Air Quality Over Central Eastern China During Winter. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7147-7163.	1.2	6
271	Vertical characteristics of peroxyacetyl nitrate (PAN) from a 250-m tower in northern China during September 2018. Atmospheric Environment, 2019, 213, 55-63.	1.9	20
272	Characteristics and mixing state of aerosol at the summit of Mount Tai (1534â€¯m) in Central East China: First measurements with SPAMS. Atmospheric Environment, 2019, 213, 273-284.	1.9	20
273	Meteorological parameters and gaseous pollutant concentrations as predictors of daily continuous PM2.5 concentrations using deep neural network in Beijingâ€“Tianjinâ€“Hebei, China. Atmospheric Environment, 2019, 211, 128-137.	1.9	44
274	Comparative statistical models for estimating potential roles of relative humidity and temperature on the concentrations of secondary inorganic aerosol: Statistical insights on air pollution episodes at Beijing during January 2013. Atmospheric Environment, 2019, 212, 11-21.	1.9	18
275	Increased inorganic aerosol fraction contributes to air pollution and haze in China. Atmospheric Chemistry and Physics, 2019, 19, 5881-5888.	1.9	37
276	Characterization of particle size distributions during winter haze episodes in urban air. Atmospheric Research, 2019, 228, 55-67.	1.8	12
277	Increased secondary aerosol contribution and possible processing on polluted winter days in China. Environment International, 2019, 127, 78-84.	4.8	48
278	Characteristics of chemical composition and seasonal variations of PM2.5 in Shijiazhuang, China: Impact of primary emissions and secondary formation. Science of the Total Environment, 2019, 677, 215-229.	3.9	84
279	Analysis of a Severe Pollution Episode in December 2017 in Sichuan Province. Atmosphere, 2019, 10, 156.	1.0	9

#	Article	IF	Citations
280	Characterization of aerosol particles during the most polluted season (winter) in urban Chengdu (China) by single-particle analysis. Environmental Science and Pollution Research, 2019, 26, 17685-17695.	2.7	14
282	Meteorological and chemical impacts on PM2.5 during a haze episode in a heavily polluted basin city of eastern China. Environmental Pollution, 2019, 250, 520-529.	3.7	35
283	Concentrations and gas-particle partitioning of atmospheric reactive mercury at an urban site in Beijing, China. Environmental Pollution, 2019, 249, 13-23.	3.7	34
284	Potential impacts of Arctic warming on Northern Hemisphere mid-latitude aerosol optical depth. Climate Dynamics, 2019, 53, 1637-1651.	1.7	13
285	Changes of chemical composition and source apportionment of PM2.5 during 2013â€“2017 in urban Handan, China. Atmospheric Environment, 2019, 206, 119-131.	1.9	51
286	Aerosol hygroscopic growth, contributing factors, and impact on haze events in a severely polluted region in northern China. Atmospheric Chemistry and Physics, 2019, 19, 1327-1342.	1.9	47
287	Visual analysis of haze evolution and correlation in Beijing. Journal of Visualization, 2019, 22, 161-176.	1.1	3
288	Exploring the influence of two inventories on simulated air pollutants during winter over the Yangtze River Delta. Atmospheric Environment, 2019, 206, 170-182.	1.9	21
289	Effects of APCDs on PM emission: A case study of a 660â€MW coal-fired unit with ultralow pollutants emission. Applied Thermal Engineering, 2019, 155, 418-427.	3.0	28
290	Multiâ€Index Attribution of Extreme Winter Air Quality in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4567-4583.	1.2	16
291	Atmospheric new particle formation in China. Atmospheric Chemistry and Physics, 2019, 19, 115-138.	1.9	118
292	Exploring the association between the built environment and remotely sensed PM2.5 concentrations in urban areas. Journal of Cleaner Production, 2019, 220, 1014-1023.	4.6	62
293	Characterization of lead-containing atmospheric particles in a typical basin city of China: Seasonal variations, potential source areas, and responses to fireworks. Science of the Total Environment, 2019, 661, 354-363.	3.9	28
294	A severe fog-haze episode in Beijing-Tianjin-Hebei region: Characteristics, sources and impacts of boundary layer structure. Atmospheric Pollution Research, 2019, 10, 1190-1202.	1.8	17
295	Effect of Low Ambient Temperature on Emissions and Electric Range of Plug-In Hybrid Electric Vehicles. ACS Omega, 2019, 4, 3159-3168.	1.6	35
296	Analysis of meteorological factors on different stages of heavy haze pollution in Beijing, 2019. E3S Web of Conferences, 2019, 117, 00018.	0.2	0
297	Dispatch for Urban Integrated Heat and Power System Considering Secondary PM2.5 Under Smart Environmental Sensing. IEEE Access, 2019, 7, 179163-179184.	2.6	0
298	Regional Atmospheric Aerosol Pollution Detection Based on LiDAR Remote Sensing. Remote Sensing, 2019, 11, 2339.	1.8	24

#	Article	IF	Citations
299	Optical properties and source identification of black carbon and brown carbon: comparison of winter and summer haze episodes in Xi'an, Northwest China. Environmental Sciences: Processes and Impacts, 2019, 21, 2058-2069.	1.7	5
300	MICS-Asia III: multi-model comparison and evaluation of aerosol over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 11911-11937.	1.9	53
301	Roles of Relative Humidity in Aerosol Pollution Aggravation over Central China during Wintertime. International Journal of Environmental Research and Public Health, 2019, 16, 4422.	1.2	22
302	Effects of NO₂ and C₃H₆ on the heterogeneous oxidation of SO₂ on TiO₂ in the presence or absence of UVâ€“Vis irradiation. Atmospheric Chemistry and Physics, 2019, 19, 14777-14790.	1.9	21
303	Black Carbon Amplifies Haze Over the North China Plain by Weakening the East Asian Winter Monsoon. Geophysical Research Letters, 2019, 46, 452-460.	1.5	49
304	Spatiotemporal continuous estimates of PM2.5 concentrations in China, 2000â€“2016: A machine learning method with inputs from satellites, chemical transport model, and ground observations. Environment International, 2019, 123, 345-357.	4.8	207
305	Characteristics and formation mechanisms of autumn haze pollution in Chengdu based on high time-resolved water-soluble ion analysis. Environmental Science and Pollution Research, 2019, 26, 2649-2661.	2.7	29
306	Influence of anthropogenic emission inventories on simulations of air quality in China during winter and summer 2010. Atmospheric Environment, 2019, 198, 236-256.	1.9	24
307	Vital contribution of residential emissions to atmospheric fine particles (PM2.5) during the severe wintertime pollution episodes in Western China. Environmental Pollution, 2019, 245, 519-530.	3.7	16
308	Predicting wintertime windy days in Beijing with the preceding autumn sea surface temperature and large-scale circulation patterns. Theoretical and Applied Climatology, 2019, 137, 1801-1809.	1.3	2
309	Process analysis of PM2.5 pollution events in a coastal city of China using CMAQ. Journal of Environmental Sciences, 2019, 79, 225-238.	3.2	41
310	Estimating the Contribution of Local Primary Emissions to Particulate Pollution Using Highâ€Density Station Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1648-1661.	1.2	59
311	Investigating the PM2.5 mass concentration growth processes during 2013â€“2016 in Beijing and Shanghai. Chemosphere, 2019, 221, 452-463.	4.2	50
312	Wintertime aerosol chemistry in Beijing during haze period: Significant contribution from secondary formation and biomass burning emission. Atmospheric Research, 2019, 218, 25-33.	1.8	36
313	Detecting spatiotemporal dynamics of PM2.5 emission data in China using DMSP-OLS nighttime stable light data. Journal of Cleaner Production, 2019, 209, 363-370.	4.6	46
314	An observation-based perspective of winter haze days in four major polluted regions of China. National Science Review, 2019, 6, 515-523.	4.6	50
315	Analysis of abrupt changes in the PM2.5 concentration in Beijing during the conversion period from the summer to winter half-year in 2006â€“2015. Atmospheric Environment, 2019, 200, 319-328.	1.9	10
316	Oxidative Potential by PM_{2.5} in the North China Plain: Generation of Hydroxyl Radical. Environmental Science & Technology, 2019, 53, 512-520.	4.6	51

#	Article	IF	Citations
317	A modeling study of the peroxyacetyl nitrate (PAN) during a wintertime haze event in Beijing, China. Science of the Total Environment, 2019, 650, 1944-1953.	3.9	24
318	Meteorological conditions during a severe, prolonged regional heavy air pollution episode in eastern China from December 2016 to January 2017. Theoretical and Applied Climatology, 2019, 135, 1105-1122.	1.3	12
319	The spatial spillover effects of haze pollution on inbound tourism: evidence from mid-eastern China. Tourism Geographies, 2020, 22, 83-104.	2.2	34
320	Integration of field observation and air quality modeling to characterize Beijing aerosol in different seasons. Chemosphere, 2020, 242, 125195.	4.2	10
321	A preliminary study on wind tunnel simulations of the explosive growth and dissipation of fine particulate matter in ambient air. Atmospheric Research, 2020, 235, 104635.	1.8	4
322	Local characteristics of and exposure to fine particulate matter (PM2.5) in four indian megacities. Atmospheric Environment: X, 2020, 5, 100052.	0.8	47
323	Regional atmospheric pollutant transport mechanisms over the North China Plain driven by topography and planetary boundary layer processes. Atmospheric Environment, 2020, 221, 117098.	1.9	46
324	Estimating hourly PM2.5 concentrations using MODIS 3â€¯km AOD and an improved spatiotemporal model over Beijing-Tianjin-Hebei, China. Atmospheric Environment, 2020, 222, 117089.	1.9	21
325	What caused severe air pollution episode of November 2016 in New Delhi?. Atmospheric Environment, 2020, 222, 117125.	1.9	96
326	Dominant synoptic patterns during wintertime and their impacts on aerosol pollution in Central China. Atmospheric Research, 2020, 232, 104701.	1.8	12
327	Temporal evolution characteristics of PM2.5 concentration based on continuous wavelet transform. Science of the Total Environment, 2020, 699, 134244.	3.9	79
328	Distinction of two kinds of haze. Atmospheric Environment, 2020, 223, 117228.	1.9	10
329	Study on spatiotemporal distribution of airborne ozone pollution in subtropical region considering socioeconomic driving impacts: A case study in Guangzhou, China. Sustainable Cities and Society, 2020, 54, 101989.	5.1	16
330	Evolution and meteorological causes of fine particulate explosive growth events in Beijing, China, from 2013 to 2017. Atmospheric and Oceanic Science Letters, 2020, 13, 55-62.	0.5	3
331	Exploring the regional pollution characteristics and meteorological formation mechanism of PM2.5 in North China during 2013â€“2017. Environment International, 2020, 134, 105283.	4.8	73
332	Impacts of climate anomalies on the interannual and interdecadal variability of autumn and winter haze in North China: A review. International Journal of Climatology, 2020, 40, 4309-4325.	1.5	23
333	Effectively controlling hazardous airborne elements: Insights from continuous hourly observations during the seasons with the most unfavorable meteorological conditions after the implementation of the APPCAP. Journal of Hazardous Materials, 2020, 387, 121710.	6.5	16
334	Highly time-resolved chemical characterization and implications of regional transport for submicron aerosols in the North China Plain. Science of the Total Environment, 2020, 705, 135803.	3.9	18

#	Article	IF	Citations
335	Mixed and intensive haze pollution during the transition period between autumn and winter in Beijing, China. Science of the Total Environment, 2020, 711, 134745.	3.9	25
336	Improved method of visibility parameterization focusing on high humidity and aerosol concentrations during fogâ€“haze events: Application in the GRAPES_CAUCE model in Jing-Jin-Ji, China. Atmospheric Environment, 2020, 222, 117139.	1.9	19
337	Does urban haze pollution inversely drive down the energy intensity? A perspective from environmental regulation. Sustainable Development, 2020, 28, 343-351.	6.9	20
338	Rayleigh based concept to track NOx emission sources in urban areas of China. Science of the Total Environment, 2020, 704, 135362.	3.9	21
339	Vertical distribution of PM2.5 and interactions with the atmospheric boundary layer during the development stage of a heavy haze pollution event. Science of the Total Environment, 2020, 704, 135329.	3.9	46
340	Understanding sources of fine particulate matter in China. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190325.	1.6	16
341	Wintertime nitrate formation pathways in the north China plain: Importance of N2O5 heterogeneous hydrolysis. Environmental Pollution, 2020, 266, 115287.	3.7	32
342	Chemical characteristics and source apportionment of ambient PM1.0 and PM2.5 in a polluted city in North China plain. Atmospheric Environment, 2020, 242, 117867.	1.9	31
343	Urbanization Impact on Regional Wind Stilling: A Modeling Study in the Beijingâ€Tianjinâ€Hebei Region of China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033132.	1.2	15
344	Dust-Dominated Coarse Particles as a Medium for Rapid Secondary Organic and Inorganic Aerosol Formation in Highly Polluted Air. Environmental Science & Technology, 2020, 54, 15710-15721.	4.6	37
345	Characterization and Source Apportionment of Fine Particles during a Heavy Pollution Episode over the Yangtze River Delta, China. Atmosphere, 2020, 11, 720.	1.0	4
346	Study of Secondary Organic Aerosol Formation from Chlorine Radical-Initiated Oxidation of Volatile Organic Compounds in a Polluted Atmosphere Using a 3D Chemical Transport Model. Environmental Science & Technology, 2020, 54, 13409-13418.	4.6	24
347	Changes in ammonia and its effects on PM2.5 chemical property in three winter seasons in Beijing, China. Science of the Total Environment, 2020, 749, 142208.	3.9	21
348	Efficient Conversion of NO to NO₂ on SO₂-Aged MgO under Atmospheric Conditions. Environmental Science & Technology, 2020, 54, 11848-11856.	4.6	15
349	Markedly Enhanced Levels of Peroxyacetyl Nitrate (PAN) During COVIDâ€19 in Beijing. Geophysical Research Letters, 2020, 47, e2020GL089623.	1.5	23
350	Quantitative Determination of Hydroxymethanesulfonate (HMS) Using Ion Chromatography and UHPLC-LTQ-Orbitrap Mass Spectrometry: A Missing Source of Sulfur during Haze Episodes in Beijing. Environmental Science and Technology Letters, 2020, 7, 701-707.	3.9	25
351	Spatial and Temporal Evolution Characteristics of PM2.5 in China from 1998 to 2016. Chinese Geographical Science, 2020, 30, 947-958.	1.2	5
352	Vertical characteristics of aerosol hygroscopicity and impacts on optical properties over the North China Plain during winter. Atmospheric Chemistry and Physics, 2020, 20, 3931-3944.	1.9	27

#	Article	IF	Citations
353	A study of peroxyacetyl nitrate at a rural site in Beijing based on continuous observations from 2015 to 2019 and the WRF-Chem model. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	3.3	10
354	Estimating daily ground-level PM2.5 in China with random-forest-based spatiotemporal kriging. Science of the Total Environment, 2020, 740, 139761.	3.9	45
355	Unexpected rise of ozone in urban and rural areas, and sulfur dioxide in rural areas during the coronavirus city lockdown in Hangzhou, China: implications for air quality. Environmental Chemistry Letters, 2020, 18, 1713-1723.	8.3	68
356	Atmospheric mercury in an eastern Chinese metropolis (Jinan). Ecotoxicology and Environmental Safety, 2020, 196, 110541.	2.9	9
357	The Stove, Dome, and Umbrella Effects of Atmospheric Aerosol on the Development of the Planetary Boundary Layer in Hazy Regions. Geophysical Research Letters, 2020, 47, e2020GL087373.	1.5	73
358	Nocturnal PM2.5 explosive growth dominates severe haze in the rural North China Plain. Atmospheric Research, 2020, 242, 105020.	1.8	20
359	Study on the change of negative air ion concentration and its influencing factors at different spatio-temporal scales. Global Ecology and Conservation, 2020, 23, e01008.	1.0	14
360	Joint Governance Regions and Major Prevention Periods of PM2.5 Pollution in China Based on Wavelet Analysis and Concentration-Weighted Trajectory. Sustainability, 2020, 12, 2019.	1.6	5
361	Examining the physical and chemical contributions to size spectrum evolution during the development of hazes. Scientific Reports, 2020, 10, 5347.	1.6	3
362	Contrasting trends of PM2.5 and surface-ozone concentrations in China from 2013 to 2017. National Science Review, 2020, 7, 1331-1339.	4.6	284
363	Photochemical Aqueous-Phase Reactions Induce Rapid Daytime Formation of Oxygenated Organic Aerosol on the North China Plain. Environmental Science & Technology, 2020, 54, 3849-3860.	4.6	85
364	Molecular characterization of firework-related urban aerosols using Fourier transform ion cyclotron resonance mass spectrometry. Atmospheric Chemistry and Physics, 2020, 20, 6803-6820.	1.9	27
365	Water transfer and losses embodied in the Westâ€“East electricity transmission project in China. Applied Energy, 2020, 275, 115152.	5.1	33
366	Multiphase MCMâ€“CAPRAM modeling of the formation and processing of secondary aerosol constituents observed during the Mt. Tai summer campaign in 2014. Atmospheric Chemistry and Physics, 2020, 20, 6725-6747.	1.9	14
367	Characteristics of Winter Haze Pollution in the Fenwei Plain and the Possible Influence of EU During 1984â€“2017. Earth and Space Science, 2020, 7, e2020EA001134.	1.1	12
368	Spatiotemporal variation and determinants of populationâ€™s PM2.5 exposure risk in China, 1998â€“2017: a case study of the Beijing-Tianjin-Hebei region. Environmental Science and Pollution Research, 2020, 27, 31767-31777.	2.7	12
369	A review of aerosol chemistry in Asia: insights from aerosol mass spectrometer measurements. Environmental Sciences: Processes and Impacts, 2020, 22, 1616-1653.	1.7	57
370	Spatiotemporal trends of PM2.5 concentrations in central China from 2003 to 2018 based on MAIAC-derived high-resolution data. Environment International, 2020, 137, 105536.	4.8	49

#	Article	IF	Citations
371	Variation of size-segregated particle number concentrations in wintertime Beijing. Atmospheric Chemistry and Physics, 2020, 20, 1201-1216.	1.9	52
372	Impacts of meteorology and emission control on the abnormally low particulate matter concentration observed during the winter of 2017. Atmospheric Environment, 2020, 225, 117377.	1.9	11
373	Diagnostic analysis of wintertime PM2.5 pollution in the North China Plain: The impacts of regional transport and atmospheric boundary layer variation. Atmospheric Environment, 2020, 224, 117346.	1.9	24
374	Exploring the cause of PM2.5 pollution episodes in a cold metropolis in China. Journal of Cleaner Production, 2020, 256, 120275.	4.6	24
375	Analysis of the impacts of atmospheric circulation patterns on the regional air quality over the geographical center of the Eurasian continent. Atmospheric Research, 2020, 237, 104858.	1.8	9
376	Significant restructuring and light absorption enhancement of black carbon particles by ammonium nitrate coating. Environmental Pollution, 2020, 262, 114172.	3.7	18
377	Ambient PM2.5 caused cardiac dysfunction through FoxO1-targeted cardiac hypertrophy and macrophage-activated fibrosis in mice. Chemosphere, 2020, 247, 125881.	4.2	46
378	Influence of Arctic Oscillation abnormalities on spatio-temporal haze distributions in China. Atmospheric Environment, 2020, 223, 117282.	1.9	10
379	Stable oxygen isotope constraints on nitrate formation in Beijing in springtime. Environmental Pollution, 2020, 263, 114515.	3.7	21
380	Association between fine particle exposure and common test items in clinical laboratory: A time-series analysis in Changsha, China. Science of the Total Environment, 2020, 723, 137955.	3.9	7
381	Similarities and Differences in the Temporal Variability of PM2.5 and AOD Between Urban and Rural Stations in Beijing. Remote Sensing, 2020, 12, 1193.	1.8	10
382	Sustainability by Highâ€“Speed Rail: The Reduction Mechanisms of Transportation Infrastructure on Haze Pollution. Sustainability, 2020, 12, 2763.	1.6	11
383	Aerosol Optical Properties and Contribution to Differentiate Haze and Haze-Free Weather in Wuhan City. Atmosphere, 2020, 11, 322.	1.0	5
384	Secondary aerosol formation and its linkage with synoptic conditions during winter haze pollution over eastern China. Science of the Total Environment, 2020, 730, 138888.	3.9	24
385	RS&GIS based PM emission inventories of dust sources over a provincial scale: A case study of Henan province, central China. Atmospheric Environment, 2020, 225, 117361.	1.9	22
386	Kinetics study of heterogeneous reactions of O3 and SO2 with sea salt single droplets using micro-FTIR spectroscopy: Potential for formation of sulfate aerosol in atmospheric environment. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 233, 118219.	2.0	6
387	Current Challenges in Visibility Improvement in Southern China. Environmental Science and Technology Letters, 2020, 7, 395-401.	3.9	38
388	Formation mechanisms of atmospheric nitrate and sulfate during the winter haze pollution periods in Beijing: gas-phase, heterogeneous and aqueous-phase chemistry. Atmospheric Chemistry and Physics, 2020, 20, 4153-4165.	1.9	104

#	Article	IF	Citations
389	Enhanced secondary pollution offset reduction of primary emissions during COVID-19 lockdown in China. National Science Review, 2021, 8, nwaa137.	4.6	493
390	Characteristics of PM2.5 pollution in Beijing after the improvement of air quality. Journal of Environmental Sciences, 2021, 100, 1-10.	3.2	59
391	Stable and transport indices applied to winter air pollution over the Yangtze River Delta, China. Environmental Pollution, 2021, 272, 115954.	3.7	18
392	Secondary aerosol formation in winter haze over the Beijing-Tianjin-Hebei Region, China. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	3.3	55
393	Air pollution could drive global dissemination of antibiotic resistance genes. ISME Journal, 2021, 15, 270-281.	4.4	95
394	Chemical composition, water content and size distribution of aerosols during different development stages of regional haze episodes over the North China Plain. Atmospheric Environment, 2021, 245, 118020.	1.9	19
395	Survey of background microbial index in inhalable particles in Beijing. Science of the Total Environment, 2021, 757, 143743.	3.9	10
396	Synergetic impacts of precursory climate drivers on interannual-decadal variations in haze pollution in North China: A review. Science of the Total Environment, 2021, 755, 143017.	3.9	23
397	Measurements of atmospheric aerosol hygroscopic growth based on multi-channel Raman-Mie lidar. Atmospheric Environment, 2021, 246, 118076.	1.9	5
398	The effectiveness of electrostatic haze removal scheme and the optimization of electrostatic precipitator based on the charged properties of airborne haze particles: Experiment and simulation. Journal of Cleaner Production, 2021, 288, 125096.	4.6	9
399	Dynamical prediction model of consumersâ€™ purchase intentions regarding anti-smog products during smog risk: Taking the information flow perspective. Physica A: Statistical Mechanics and Its Applications, 2021, 563, 125427.	1.2	7
400	Attribution of the worse aerosol pollution in March 2018 in Beijing to meteorological variability. Atmospheric Research, 2021, 250, 105294.	1.8	7
401	Insights into the characteristics of aerosols using an integrated single particleâ€“bulk chemical approach. Atmospheric Research, 2021, 250, 105374.	1.8	4
402	Variation of carbonaceous aerosols and water soluble inorganic ions during winter haze in two consecutive years. Atmospheric Pollution Research, 2021, 12, 242-251.	1.8	5
403	Climatological intraseasonal oscillation of the summertime haze-fog in eastern China. Atmospheric Environment, 2021, 244, 117951.	1.9	2
404	Characterization of the aerosol chemical composition during the COVID-19 lockdown period in Suzhou in the Yangtze River Delta, China. Journal of Environmental Sciences, 2021, 102, 110-122.	3.2	28
405	Drivers of the rapid rise and daily-based accumulation in PM1. Science of the Total Environment, 2021, 760, 143394.	3.9	4
406	Satellite-based ground PM2.5 estimation using a gradient boosting decision tree. Chemosphere, 2021, 268, 128801.	4.2	63

#	Article	IF	Citations
407	Formation of droplet-mode secondary inorganic aerosol dominated the increased PM2.5 during both local and transport haze episodes in Zhengzhou, China. Chemosphere, 2021, 269, 128744.	4.2	14
408	Spatial distribution and sources of winter black carbon and brown carbon in six Chinese megacities. Science of the Total Environment, 2021, 762, 143075.	3.9	34
409	Characteristics and source apportionment of water-soluble inorganic ions in PM2.5 during a wintertime haze event in Huanggang, central China. Atmospheric Pollution Research, 2021, 12, 111-123.	1.8	21
410	Analysis of transport path and source distribution of winter air pollution in Shenyang. Open Geosciences, 2021, 13, 1105-1117.	0.6	3
411	Variations of Siberian High Position under climate change: Impacts on winter pollution over North China. , 2021, , 169-190.		0
412	Feasibility of machine learning methods for predicting hospital emergency room visits for respiratory diseases. Environmental Science and Pollution Research, 2021, 28, 29701-29709.	2.7	7
413	Particulate matter trends and quantification of the spring sand-dust contribution in Hohhot, Inner Mongolia, from 2013 to 2017. Atmospheric and Oceanic Science Letters, 2021, 14, 100036.	0.5	5
414	The characteristics of atmospheric particles and metal elements during winter in Beijing: Size distribution, source analysis, and environmental risk assessment. Ecotoxicology and Environmental Safety, 2021, 211, 111937.	2.9	36
415	Impact of the COVID-19 Lockdown on Air Quality Trends in Guiyang, Southwestern China. Atmosphere, 2021, 12, 422.	1.0	7
416	Decreasing concentrations of carbonaceous aerosols in China from 2003 to 2013. Scientific Reports, 2021, 11, 5352.	1.6	8
417	Vertical Structures of Meteorological Elements and Black Carbon at Mt. Tianshan Using an Unmanned Aerial Vehicle System. Remote Sensing, 2021, 13, 1267.	1.8	8
418	The impact threshold of the aerosol radiative forcing on the boundary layer structure in the pollution region. Atmospheric Chemistry and Physics, 2021, 21, 5739-5753.	1.9	27
419	A bibliometric and visualized analysis of research progress and frontiers on health effects caused by PM2.5. Environmental Science and Pollution Research, 2021, 28, 30595-30612.	2.7	17
420	Characteristics of PM2.5 Pollution with Comparative Analysis of O3 in Autumnâ€“Winter Seasons of Xingtai, China. Atmosphere, 2021, 12, 569.	1.0	6
421	Measurement report: Comparison of wintertime individual particles at ground level and above the mixed layer in urban Beijing. Atmospheric Chemistry and Physics, 2021, 21, 5301-5314.	1.9	8
422	Spatiotemporal characteristics of nitrogen dioxide pollution in mainland China from 2015 to 2018. Environmental Monitoring and Assessment, 2021, 193, 313.	1.3	2
423	Threeâ€Đimensional Distribution of PM_{2.5} over the Yangtze River Delta as Cold Fronts Moving Through. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034035.	1.2	15
424	PM2.5 Pollution Strongly Predicted COVID-19 Incidence in Four High-Polluted Urbanized Italian Cities during the Pre-Lockdown and Lockdown Periods. International Journal of Environmental Research and Public Health, 2021, 18, 5088.	1.2	7

#	Article	IF	Citations
425	The association between ambient air pollution and birth defects in five major ethnic groups in Liuzhou, China. BMC Pediatrics, 2021, 21, 232.	0.7	8
426	The influence of aerosols on the NO2 photolysis rate in a suburban site in North China. Science of the Total Environment, 2021, 767, 144788.	3.9	11
427	Transition in air pollution, disease burden and health cost in China: A comparative study of long-term and short-term exposure. Environmental Pollution, 2021, 277, 116770.	3.7	52
428	Exploring the inorganic and organic nitrate aerosol formation regimes at a suburban site on the North China Plain. Science of the Total Environment, 2021, 768, 144538.	3.9	26
429	Impact of urbanization on air quality in the Yangtze River Delta during the COVID-19 lockdown in China. Journal of Cleaner Production, 2021, 296, 126561.	4.6	30
430	High-time-resolution PM2.5 source apportionment based on multi-model with organic tracers in Beijing during haze episodes. Science of the Total Environment, 2021, 772, 144766.	3.9	48
432	Mitigating NOX emissions does not help alleviate wintertime particulate pollution in Beijing-Tianjin-Hebei, China. Environmental Pollution, 2021, 279, 116931.	3.7	21
433	Elucidating the quantitative characterization of atmospheric oxidation capacity in Beijing, China. Science of the Total Environment, 2021, 771, 145306.	3.9	27
434	Evolution of secondary inorganic aerosols amidst improving PM2.5 air quality in the North China plain. Environmental Pollution, 2021, 281, 117027.	3.7	13
435	How to optimize provincial PM2.5 reduction targets and paths for emerging industrialized countries? Fresh evidence from China. Environmental Science and Pollution Research, 2021, 28, 69221-69241.	2.7	7
436	Impact of urban morphology on the spatial and temporal distribution of PM2.5 concentration: A numerical simulation with WRF/CMAQ model in Wuhan, China. Journal of Environmental Management, 2021, 290, 112427.	3.8	27
437	Assessing the emission sources and reduction potential of atmospheric ammonia at an urban site in Northeast China. Environmental Research, 2021, 198, 111230.	3.7	9
438	Numerical simulation of interannual variation in transboundary contributions from Chinese emissions to PM2.5 mass burden in South Korea. Atmospheric Environment, 2021, 256, 118440.	1.9	8
439	Characteristics of chemical profile, sources and PAH toxicity of PM2.5 in beijing in autumn-winter transit season with regard to domestic heating, pollution control measures and meteorology. Chemosphere, 2021, 276, 130143.	4.2	12
440	A new parameterization of uptake coefficients for heterogeneous reactions on multi-component atmospheric aerosols. Science of the Total Environment, 2021, 781, 146372.	3.9	4
442	Technical note: Evaluation of profile retrievals of aerosols and trace gases for MAX-DOAS measurements under different aerosol scenarios based on radiative transfer simulations. Atmospheric Chemistry and Physics, 2021, 21, 12867-12894.	1.9	5
443	Heavy haze pollution during the COVID-19 lockdown in the Beijing-Tianjin-Hebei region, China. Journal of Environmental Sciences, 2022, 114, 170-178.	3.2	12
444	Projection of Air Pollution in Northern China in the Two RCPs Scenarios. Remote Sensing, 2021, 13, 3064.	1.8	4

#	Article	IF	Citations
445	Review of hazardous materials in condensable particulate matter. Fuel Processing Technology, 2021, 220, 106892.	3.7	22
446	Evolution of south-north transport and urbanization effects on PM2.5 distribution with increased pollution levels in Beijing. Sustainable Cities and Society, 2021, 72, 103060.	5.1	14
447	The roles of aqueous-phase chemistry and photochemical oxidation in oxygenated organic aerosols formation. Atmospheric Environment, 2021, 266, 118738.	1.9	14
448	Performance of Aether Low-Cost Sensor Device for Air Pollution Measurements in Urban Environments. Accuracy Evaluation Applying the Air Quality Index (AQI). Atmosphere, 2021, 12, 1246.	1.0	3
449	A new inverse modeling approach for emission sources based on the DDM-3D and 3DVAR techniques: an application to air quality forecasts in the Beijingâ€“Tianjinâ€“Hebei region. Atmospheric Chemistry and Physics, 2021, 21, 13747-13761.	1.9	3
450	Clustering diurnal cycles of day-to-day temperature change to understand their impacts on air quality forecasting in mountain-basin areas. Atmospheric Chemistry and Physics, 2021, 21, 14493-14505.	1.9	4
451	Particles liquid water and acidity determine formation of secondary inorganic ions in Urumqi, NW China. Atmospheric Research, 2021, 260, 105622.	1.8	6
452	Haze episodes before and during the COVID-19 shutdown in Tianjin, China: Contribution of fireworks and residential burning. Environmental Pollution, 2021, 286, 117252.	3.7	25
453	Aerosol water content enhancement leads to changes in the major formation mechanisms of nitrate and secondary organic aerosols in winter over the North China Plain. Environmental Pollution, 2021, 287, 117625.	3.7	6
454	Spatiotemporal variations and source apportionment of metals in atmospheric particulate matter in Beijing and its surrounding areas. Atmospheric Pollution Research, 2021, 12, 101213.	1.8	9
455	Nocturnal surface radiation cooling modulated by cloud cover change reinforces PM2.5 accumulation: Observational study of heavy air pollution in the Sichuan Basin, Southwest China. Science of the Total Environment, 2021, 794, 148624.	3.9	9
456	Rethinking the causes of extreme heavy winter PM2.5 pollution events in northern China. Science of the Total Environment, 2021, 794, 148637.	3.9	9
457	Satellite-derived 1-km estimates and long-term trends of PM2.5 concentrations in China from 2000 to 2018. Environment International, 2021, 156, 106726.	4.8	43
458	Effects of ozone and relative humidity in secondary inorganic aerosol formation during haze events in Beijing, China. Atmospheric Research, 2021, 264, 105855.	1.8	13
459	Surfactant effect on the hygroscopicity of aerosol particles at relative humidity ranging from 80% to 99.5%: Internally mixed adipic acid-ammonium sulfate particles. Atmospheric Environment, 2021, 266, 118725.	1.9	7
460	Does the joint prevention and control regulation improve the air quality? A quasi-experiment in the Beijing economic belt during the COVID-19 pandemic. Sustainable Cities and Society, 2021, 75, 103365.	5.1	6
461	Chemical characterization and source identification of PM2.5 in Luoyang after the clean air actions. Journal of Environmental Sciences, 2022, 115, 265-276.	3.2	15
462	Improvement of inorganic aerosol component in PM2.5 by constraining aqueous-phase formation of sulfate in cloud with satellite retrievals: WRF-Chem simulations. Science of the Total Environment, 2022, 804, 150229.	3.9	8

#	Article	IF	Citations
463	A full-coverage estimation of PM2.5 concentrations using a hybrid XGBoost-WD model and WRF-simulated meteorological fields in the Yangtze River Delta Urban Agglomeration, China. Environmental Research, 2022, 203, 111799.	3.7	22
464	Spatial Characteristics of PM2.5 Pollution among Cities and Policy Implication in the Northern Part of the North China Plain. Atmosphere, 2021, 12, 77.	1.0	5
465	Quantitative relationship between the structures and properties of VOCs and SOA formation on the surfaces of acidic aerosol particles. Physical Chemistry Chemical Physics, 2021, 23, 12360-12370.	1.3	2
466	Evolution of Aerosols in the Atmospheric Boundary Layer and Elevated Layers during a Severe, Persistent Haze Episode in a Central China Megacity. Atmosphere, 2021, 12, 152.	1.0	5
467	Real-time physiochemistry of urban aerosols during a regional haze episode by a single-particle aerosol mass spectrometer: Mixing state, size distribution and source apportionment. Atmospheric Pollution Research, 2020, 11, 1329-1338.	1.8	5
468	Air pollution over the North China Plain and its implication of regional transport: A new sight from the observed evidences. Environmental Pollution, 2018, 234, 29-38.	3.7	49
469	Air pollution terrain nexus: A review considering energy generation and consumption. Renewable and Sustainable Energy Reviews, 2019, 105, 71-85.	8.2	146
470	Establishment of Conceptual Schemas of Surface Synoptic Meteorological Situations Affecting Fine Particulate Pollution Across Eastern China in the Winter. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033153.	1.2	24
471	Role of the Radiative Effect of Black Carbon in Simulated PM2.5Concentrations during a Haze Event in China. Atmospheric and Oceanic Science Letters, 2014, 7, 434-440.	0.5	5
472	Carbonaceous components in particulate matter during a haze episode at a typical industrial area in the North China Plain. World Journal of Engineering, 2021, 18, 293-301.	1.0	4
473	Chinese Sulphur Dioxide Emissions and Local Environment Pollution. International Journal of Scientific Research in Knowledge, 2014, 2, 265-276.	0.1	5
474	Does environmental regulation reduce Chinaâ€™s haze pollution? An empirical analysis based on panel quantile regression. PLoS ONE, 2020, 15, e0240723.	1.1	11
475	Spatial Econometric Model Analysis of Foreign Direct Investment and Haze Pollution in China. Polish Journal of Environmental Studies, 2016, 25, 317-324.	0.6	43
476	Mutual Influence of Energy Consumption and Foreign Direct Investment on Haze Pollution in China: a Spatial Econometric Approach. Polish Journal of Environmental Studies, 2018, 27, 1743-1752.	0.6	10
477	Surface and Column-Integrated Aerosol Properties of Heavy Haze Events in January 2013 over the North China Plain. Aerosol and Air Quality Research, 2015, 15, 1514-1524.	0.9	8
478	Impact of Air Humidity Fluctuation on the Rise of PM Mass Concentration Based on the High-Resolution Monitoring Data. Aerosol and Air Quality Research, 2017, 17, 543-552.	0.9	38
479	Physicochemical Properties of Individual Airborne Particles in Beijing during Pollution Periods. Aerosol and Air Quality Research, 2017, 17, 3209-3219.	0.9	16
480	Analysis of Aerosol Optical Properties due to a Haze Episode in the Himalayan Foothills: Implications for Climate Forcing. Aerosol and Air Quality Research, 2018, 18, 1331-1350.	0.9	14

#	Article	IF	Citations
481	Potential Air Quality Improvements from Ultralow Emissions at Coal-fired Power Plants in China. Aerosol and Air Quality Research, 2018, 18, 1944-1951.	0.9	11
482	Vertical-distribution Characteristics of Atmospheric Aerosols under Different Thermodynamic Conditions in Beijing. Aerosol and Air Quality Research, 2018, 18, 2775-2787.	0.9	19
483	Assessment of Meteorological Impact and Emergency Plan for a Heavy Haze Pollution Episode in a Core City of the North China Plain. Aerosol and Air Quality Research, 2020, 20, 26-42.	0.9	14
484	A foehn-induced haze front in Beijing: observations and implications. Atmospheric Chemistry and Physics, 2020, 20, 15793-15809.	1.9	5
495	A CASE STUDY OF POLLUTION PROCESS IN NORTH CHINA REGION USING REANALYSIS METEOROLOGY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W5, 73-76.	0.2	4
496	A Case Study of Severe PM2.5 Event in the Gwangju Urban Area during February 2014. Journal of Korean Society for Atmospheric Environment, 2019, 35, 195-213.	0.2	17
497	Short-term effect of meteorological factors on the risk of rheumatoid arthritis hospital admissions: A distributed lag non-linear analysis in Hefei, China. Environmental Research, 2022, 207, 112168.	3.7	13
498	Influence of Decadal Ocean Signals on Meteorological Conditions Associated With the Winter Haze Over Eastern China. Frontiers in Environmental Science, 2021, 9, .	1.5	1
499	Complexity-Entropy Causality Plane Analysis of Air Pollution Series. Fluctuation and Noise Letters, 2022, 21, .	1.0	7
502	Understanding haze-fog pollution in central-eastern China under the background of sustainable development. , 2015, , 865-869.		0
503	Study on Probability Estimation of Haze in Beijing Based Logistic Regression Model. Journal of Geoscience and Environment Protection, 2017, 05, 37-41.	0.2	0
504	A new method for air quality observation based on ultraviolet laser. , 2019, , .		0
505	Non-stop industries were the main source of air pollution during the 2020 coronavirus lockdown in the North China Plain. Environmental Chemistry Letters, 2021, , 1-11.	8.3	3
506	Evolution in physicochemical properties of fine particles emitted from residential coal combustion based on chamber experiment. Gondwana Research, 2022, 110, 252-263.	3.0	9
507	Retrospect and Outlook of Research on Regional Haze Pollution in China: A Systematic Literature Review. International Journal of Environmental Research and Public Health, 2021, 18, 11495.	1.2	2
508	Observational Analysis of Aerosolâ€“Meteorology Interactions for the Severe Haze Episode in Korea. Atmosphere, 2021, 12, 33.	1.0	1
509	Particle composition, sources and evolution during the COVID-19 lockdown period in Chengdu, southwest China: Insights from single particle aerosol mass spectrometer data. Atmospheric Environment, 2022, 268, 118844.	1.9	9
511	Variations in Nocturnal Residual Layer Height and Its Effects on Surface PM2.5 over Wuhan, China. Remote Sensing, 2021, 13, 4717.	1.8	3

#	Article	IF	Citations
512	Persistent pollution episodes, transport pathways, and potential sources of air pollution during the heating season of 2016â€“2017 in Lanzhou, China. Environmental Monitoring and Assessment, 2021, 193, 852.	1.3	7
513	Study of Persistent Haze Pollution in Winter over Jinan (China) Based on Ground-Based and Satellite Observations. Remote Sensing, 2021, 13, 4862.	1.8	8
514	Morphology, composition and mixing state of individual airborne particles: Effects of the 2017 Action Plan in Beijing, China. Journal of Cleaner Production, 2021, 329, 129748.	4.6	15
515	Meteorological and Chemical Causes of Heavy Pollution in Winter in Hohhot, Inner Mongolia Plateau. SSRN Electronic Journal, 0, , .	0.4	0
516	Air stagnation in China: Spatiotemporal variability and differing impact on PM2.5 and O3 during 2013â€“2018. Science of the Total Environment, 2022, 819, 152778.	3.9	17
517	Investigation on the difference of PM2.5 transport flux between the North China Plain and the Sichuan Basin. Atmospheric Environment, 2022, 271, 118922.	1.9	9
518	Evolution of organic carbon during COVID-19 lockdown period: Possible contribution of nocturnal chemistry. Science of the Total Environment, 2022, 808, 152191.	3.9	21
519	New open burning policy reshaped the aerosol characteristics of agricultural fire episodes in Northeast China. Science of the Total Environment, 2022, 810, 152272.	3.9	17
520	Trajectory Optimization of Aircraft for A Continuous Descent Continuous Procedure. , 2020, , .		0
521	Smog prediction based on the deep belief - BP neural network model (DBN-BP). Urban Climate, 2022, 41, 101078.	2.4	72
522	Estimation of high-resolution PM2.5 concentrations based on gap-filling aerosol optical depth using gradient boosting model. Air Quality, Atmosphere and Health, 2022, 15, 619-631.	1.5	6
523	Quantitative investigation and decision support of reducing effect of warm mixed asphalt mixture (WMA) on emission and energy consumption in highway construction. Environmental Science and Pollution Research, 2022, , 1.	2.7	4
524	Seasonal variations, temperature dependence, and sources of size-resolved PM components in Nanjing, east China. Journal of Environmental Sciences, 2022, 121, 175-186.	3.2	5
525	Exploring the convergence patterns of PM2.5 in Chinese cities. Environment, Development and Sustainability, 2022, , 1-26.	2.7	1
526	Reconstruction of daily haze data across China between 1961 and 2020. International Journal of Climatology, 2022, 42, 5629-5643.	1.5	2
527	The role of economic development on the effectiveness of industrial pollution reduction policy in Chinese cities. Journal of Cleaner Production, 2022, 339, 130709.	4.6	4
528	Interannual Relationship between Haze Days in Decemberâ€“January and Satellite-Based Leaf Area Index in Augustâ€“September over Central North China. Remote Sensing, 2022, 14, 884.	1.8	0
529	Atmospheric deposition of Pb and Cd in the Cedrus atlantica for environmental biomonitoring. Landscape and Ecological Engineering, 2022, 18, 341-350.	0.7	26

#	Article	IF	Citations
530	Random Forests Assessment of the Role of Atmospheric Circulation in PM10 in an Urban Area with Complex Topography. Sustainability, 2022, 14, 3388.	1.6	4
531	Interpretation of NO₃â€“N₂O<sub>5</sub observation via steady state in high-aerosol air mass: the impact of equilibrium coefficient in ambient conditions. Atmospheric Chemistry and Physics, 2022, 22, 3525-3533.	1.9	7
532	Optimization research on air quality numerical model forecasting effects based on deep learning methods. Atmospheric Research, 2022, 271, 106082.	1.8	10
533	Impact of Formation Pathways on Secondary Inorganic Aerosol During Haze Pollution in Beijing: Quantitative Evidence From Highâ€Resolution Observation and Modeling. Geophysical Research Letters, 2021, 48, .	1.5	9
534	Formation, radiative forcing, and climatic effects of severe regional haze. Atmospheric Chemistry and Physics, 2022, 22, 4951-4967.	1.9	5
535	Decadal changes in PM2.5-related health impacts in China from 1990 to 2019 and implications for current and future emission controls. Science of the Total Environment, 2022, 834, 155334.	3.9	9
536	Control Measures for Automobile Exhaust Emissions in PM2.5 Governance. Discrete Dynamics in Nature and Society, 2022, 2022, 1-14.	0.5	4
537	Microbial activity and community structure in <scp>PM₂</scp>_{.5} at different heights in ground boundary layer of Beijing atmosphere under various air quality levels. Environmental Microbiology, 2022, 24, 4013-4029.	1.8	2
538	Winter particulate pollution severity in North China driven by atmospheric teleconnections. Nature Geoscience, 2022, 15, 349-355.	5.4	37
539	Assessing the Impacts of Climate Change on Meteorology and Air Stagnation in China Using a Dynamical Downscaling Method. Frontiers in Environmental Science, 2022, 10, .	1.5	1
540	Meteorological and chemical causes of heavy pollution in winter in Hohhot, Inner Mongolia Plateau. Atmospheric Research, 2022, 275, 106243.	1.8	4
541	Characterization of trace elements and Pb isotopes in PM2.5 and isotopic source identification during haze episodes in Seoul, Korea. Atmospheric Pollution Research, 2022, 13, 101442.	1.8	6
542	Spatiotemporal Distribution of Continuous Air Pollution and Its Relationship with Socioeconomic and Natural Factors in China. International Journal of Environmental Research and Public Health, 2022, 19, 6635.	1.2	4
543	Progressively narrow the gap of PM2.5 pollution characteristics at urban and suburban sites in a megacity of Sichuan Basin, China. Journal of Environmental Sciences, 2023, 126, 708-721.	3.2	9
544	Future projections of daily haze-conducive and clear weather conditions over the North China Plain using a perturbed parameter ensemble. Atmospheric Chemistry and Physics, 2022, 22, 7443-7460.	1.9	0
545	Atmospheric circulation anomaly over mid- and high-latitudes and its association with severe persistent haze events in Beijing. Atmospheric Research, 2022, 277, 106315.	1.8	5
547	Influence of Meteorological Factors and Chemical Processes on the Explosive Growth of PM2.5 in Shanghai, China. Atmosphere, 2022, 13, 1068.	1.0	8
548	Source-specific health risks induced by PM2.5-bound metallic species under different pollution scenarios in a cold megacity of Northeast China. Urban Climate, 2022, 44, 101205.	2.4	5

#	Article	IF	Citations
549	Progress in quantitative research on the relationship between atmospheric oxidation and air quality. Journal of Environmental Sciences, 2023, 123, 350-366.	3.2	5
550	Ambient NO2 exposure induces migraine in rats: Evidence, mechanisms and interventions. Science of the Total Environment, 2022, 844, 157102.	3.9	7
551	Full-Coverage PM2.5 Mapping and Variation Assessment during the Three-Year Blue-Sky Action Plan Based on a Daily Adaptive Modeling Approach. Remote Sensing, 2022, 14, 3571.	1.8	4
552	Incorporation and improvement of a heterogeneous chemistry mechanism in the atmospheric chemistry model GRAPES_Meso5.1/CUACE and its impacts on secondary inorganic aerosol and PM2.5 simulations in Middle-Eastern China. Science of the Total Environment, 2022, 847, 157530.	3.9	3
553	A systematic review investigating linear infrastructure effects on Urban Heat Island (UHIULI) and its interaction with UHI typologies. Urban Climate, 2022, 45, 101261.	2.4	7
554	Prediction of PM2.5 concentration in urban agglomeration of China by hybrid network model. Journal of Cleaner Production, 2022, 374, 133968.	4.6	10
555	Why is the air humid during wintertime heavy haze days in Beijing?. Science of the Total Environment, 2022, 853, 158597.	3.9	1
556	PM2.5 concentration prediction based on EEMD-Stacking - A case study of Yangtze River Delta, China. , 2022, , .		0
557	Can Carbon Emission Trading Policy Reduce PM2.5? Evidence from Hubei, China. Sustainability, 2022, 14, 10755.	1.6	2
558	Spatiotemporal Heterogeneity and the Key Influencing Factors of PM2.5 and PM10 in Heilongjiang, China from 2014 to 2018. International Journal of Environmental Research and Public Health, 2022, 19, 11627.	1.2	6
559	Diesel soot photooxidation enhances the heterogeneous formation of H2SO4. Nature Communications, 2022, 13, .	5.8	15
560	Composite Analysis of Aerosol Direct Radiative Effects on Meteorology During Wintertime Severe Haze Events in the North China Plain. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	2
561	Stringency of environmental policy in China: When pollution drives bribery. Economic Modelling, 2022, 117, 106048.	1.8	1
563	Measurement report: Ambient volatile organic compound (VOC) pollution in urban Beijing: characteristics, sources, and implications for pollution control. Atmospheric Chemistry and Physics, 2022, 22, 11931-11944.	1.9	21
564	Changes in Air Quality and Drivers for the Heavy PM2.5 Pollution on the North China Plain Pre- to Post-COVID-19. International Journal of Environmental Research and Public Health, 2022, 19, 12904.	1.2	5
566	Spatial Autocorrelation and Temporal Convergence of PM2.5 Concentrations in Chinese Cities. International Journal of Environmental Research and Public Health, 2022, 19, 13942.	1.2	4
567	Rapid reappearance of air pollution after cold air outbreaks in northern and eastern China. Atmospheric Chemistry and Physics, 2022, 22, 13371-13388.	1.9	4
568	Lockdown Amid COVID-19 Ascendancy over Ambient Particulate Matter Pollution Anomaly. International Journal of Environmental Research and Public Health, 2022, 19, 13540.	1.2	8

#	Article	IF	Citations
569	Exploring Spatiotemporal Dynamics of PM2.5 Emission Based on Nighttime Light in China from 2012 to 2018. Sustainability, 2022, 14, 14011.	1.6	0
570	Assessment of the impact of the bus fleet and transportation infrastructure works on the air quality in Rio de Janeiro (Olympic Games 2016). Air Quality, Atmosphere and Health, 2023, 16, 289-309.	1.5	2
571	The pollution haven strikes back?â€“Evidence from air quality daily variation in the Jing-Jin-Ji region of China. Environmental Science and Policy, 2022, 138, 105-121.	2.4	5
572	Impact of early winter North Atlantic Oscillation on the dramatic alternation of seesaw haze intensity between late winter months in the North China Plain. Atmospheric Research, 2023, 281, 106483.	1.8	0
573	Spatiotemporal high-resolution imputation modeling of aerosol optical depth for investigating its full-coverage variation in China from 2003 to 2020. Atmospheric Research, 2023, 281, 106481.	1.8	9
574	Comparative analysis of nitrate evolution patterns during pollution episodes: Method development and results from Tianjin, China. Science of the Total Environment, 2023, 857, 159436.	3.9	1
575	Chemical composition, sources and evolution of PM2.5 during wintertime in the city cluster of southern Sichuan, China. Atmospheric Pollution Research, 2023, 14, 101635.	1.8	8
576	Optimization of process parameters and mechanism of strengthening and toughening of Nb-W alloy prepared by chemical vapor deposition based on orthogonal test. Materials Research Express, 0, , .	0.8	0
577	Characteristics of PM2.5 and secondary inorganic pollution formation during the heating season of 2021 in Beijing. Frontiers in Environmental Science, 0, 10, .	1.5	1
578	Numerical Model of Atmospheric Haze. Advanced Topics in Science and Technology in China, 2023, , 133-168.	0.0	0
579	Chinaâ€™s environmental solutions. Applied Microbiology and Biotechnology, 2023, 107, 987-1002.	1.7	2
580	Analysis of aerosol liquid water content and its role in visibility reduction in Delhi. Science of the Total Environment, 2023, 867, 161484.	3.9	8
581	Exploring the formation mechanism of fine particles in an ex-heavily polluted Northwestern city, China. Science of the Total Environment, 2023, 868, 161333.	3.9	3
582	Measurement report: Intensive biomass burning emissions and rapid nitrate formation drive severe haze formation in the Sichuan Basin, China â€“ insights from aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2023, 23, 1147-1167.	1.9	3
583	Study on the Boundary Layer of the Haze at Xianyang Airport Based on Multi-Source Detection Data. Remote Sensing, 2023, 15, 641.	1.8	3
584	Size-Resolved Characteristics and Sources of Inorganic Ions, Carbonaceous Components and Dicarboxylic Acids, Benzoic Acid, Oxocarboxylic Acids and Î±-Dicarbonyls in Wintertime Aerosols from Tianjin, North China. Aerosol Science and Engineering, 2023, 7, 1-22.	1.1	3
585	Analysis of Factors Influencing Air Quality in Different Periods during COVID-19: A Case Study of Tangshan, China. International Journal of Environmental Research and Public Health, 2023, 20, 4199.	1.2	2
586	The feedback effects of aerosols from different sources on the urban boundary layer in Beijing China. Environmental Pollution, 2023, 325, 121440.	3.7	13

#	Article	IF	Citations
587	The combined effects of heterogeneous chemistry and aerosol-radiation interaction on severe haze simulation by atmospheric chemistry model in Middle-Eastern China. Atmospheric Environment, 2023, 302, 119729.	1.9	0
588	Urban particulate water-soluble organic matter in winter: Size-resolved molecular characterization, role of the S-containing compounds on haze formation. Science of the Total Environment, 2023, 875, 162657.	3.9	4
589	Influences of atmospheric intraseasonal oscillation in midâ€“high latitudes on winter haze pollution over the <scp>Beijingâ€Tianjinâ€Hebei</scp> region. International Journal of Climatology, 2023, 43, 3173-3188.	1.5	3
590	Examining the Effects of Socioeconomic Development on Fine Particulate Matter (PM2.5) in Chinaâ€™s Cities Based on Spatial Autocorrelation Analysis and MGWR Model. International Journal of Environmental Research and Public Health, 2023, 20, 2814.	1.2	3
591	Two leading patterns of winter PM2.5 variations in eastern China before the outbreak of cold surge and their causes. Atmospheric Research, 2023, 287, 106696.	1.8	2
592	Trends of source apportioned PM2.5 in Tianjin over 2013â€“2019: Impacts of Clean Air Actions. Environmental Pollution, 2023, 325, 121344.	3.7	11
593	Interannual evolution of the chemical composition, sources and processes of PM2.5 in Chengdu, China: Insights from observations in four winters. Journal of Environmental Sciences, 2024, 138, 32-45.	3.2	5
594	A review on the heterogeneous oxidation of SO₂ on solid atmospheric particles: Implications for sulfate formation in haze chemistry. Critical Reviews in Environmental Science and Technology, 2023, 53, 1888-1911.	6.6	4
595	Impact of Environmental Exposure on Chronic Diseases in China and Assessment of Population Health Vulnerability. ISPRS International Journal of Geo-Information, 2023, 12, 155.	1.4	1