Zifa Wang

List of Publications by Year
in descending order

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343 papers	16,312 citations	23544 58 h-index	25770 108 g-index
373 all docs	373 docs citations	373 times ranked	9245 citing authors

#	Article	IF	Citations
1	Drivers of improved PM _{2.5} air quality in China from 2013 to 2017. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24463-24469.	3.3	1,193
2	Asian dust transported one full circuit around theÂglobe. Nature Geoscience, 2009, 2, 557-560.	5.4	689
3	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
4	The air-borne particulate pollution in Beijingâ€"concentration, composition, distribution and sources. Atmospheric Environment, 2004, 38, 5991-6004.	1.9	532
5	Air quality during the 2008 Beijing Olympic Games. Atmospheric Environment, 2007, 41, 480-492.	1.9	464
6	The impact of relative humidity on aerosol composition and evolution processes during wintertime in Beijing, China. Atmospheric Environment, 2013, 77, 927-934.	1.9	330
7	Characterization of summer organic and inorganic aerosols in Beijing, China with an Aerosol Chemical Speciation Monitor. Atmospheric Environment, 2012, 51, 250-259.	1.9	296
8	Primary and secondary aerosols in Beijing in winter: sources, variations and processes. Atmospheric Chemistry and Physics, 2016, 16, 8309-8329.	1.9	288
9	Particulate matter pollution over China and the effects of control policies. Science of the Total Environment, 2017, 584-585, 426-447.	3.9	252
10	Modeling study of regional severe hazes over mid-eastern China in January 2013 and its implications on pollution prevention and control. Science China Earth Sciences, 2014, 57, 3-13.	2.3	251
11	PM2.5 in the Yangtze River Delta, China: Chemical compositions, seasonal variations, and regional pollution events. Environmental Pollution, 2017, 223, 200-212.	3.7	236
12	Acid deposition in Asia: Emissions, deposition, and ecosystem effects. Atmospheric Environment, 2016, 146, 55-69.	1.9	213
13	Organic molecular compositions and temporal variations of summertime mountain aerosols over Mt. Tai, North China Plain. Journal of Geophysical Research, 2008, 113, .	3.3	199
14	Effects of Aqueous-Phase and Photochemical Processing on Secondary Organic Aerosol Formation and Evolution in Beijing, China. Environmental Science & Technology, 2017, 51, 762-770.	4.6	179
15	Rapid formation and evolution of an extreme haze episode in Northern China during winter 2015. Scientific Reports, 2016, 6, 27151.	1.6	162
16	A deflation module for use in modeling long-range transport of yellow sand over East Asia. Journal of Geophysical Research, 2000, 105, 26947-26959.	3.3	160
17	â€œAPEC Blueâ€• Secondary Aerosol Reductions from Emission Controls in Beijing. Scientific Reports, 2016, 6, 20668.	1.6	155
18	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From Highâ€Resolution Aerosol Mass Spectrometry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1132-1147.	1.2	155

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19	Isotopic Composition of Atmospheric Mercury in China: New Evidence for Sources and Transformation Processes in Air and in Vegetation. Environmental Science & Technology, 2016, 50, 9262-9269.	4.6	139
20	A chemical cocktail during the COVID-19 outbreak in Beijing, China: Insights from six-year aerosol particle composition measurements during the Chinese New Year holiday. Science of the Total Environment, 2020, 742, 140739.	3.9	138
21	Rapid formation of a severe regional winter haze episode over a mega-city cluster on the North China Plain. Environmental Pollution, 2017, 223, 605-615.	3.7	136
22	Chemical composition of dust storms in Beijing and implications for the mixing of mineral aerosol with pollution aerosol on the pathway. Journal of Geophysical Research, 2005, 110, .	3.3	135
23	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
24	Modeling study of ozone seasonal cycle in lower troposphere over east Asia. Journal of Geophysical Research, 2007, 112, .	3.3	119
25	Atmospheric input of mineral dust to the western North Pacific region based on direct measurements and a regional chemical transport model. Geophysical Research Letters, 2003, 30, .	1.5	117
26	Contributions of biogenic volatile organic compounds to the formation of secondary organic aerosols over Mt. Tai, Central East China. Atmospheric Environment, 2010, 44, 4817-4826.	1.9	110
27	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
28	A 6-year-long (2013â€“2018) high-resolution air quality reanalysis dataset in China based on the assimilation of surface observations from CNEMC. Earth System Science Data, 2021, 13, 529-570.	3.7	109
29	The evolution of chemical components of aerosols at five monitoring sites of China during dust storms. Atmospheric Environment, 2007, 41, 1091-1106.	1.9	100
30	A conceptual framework for mixing structures in individual aerosol particles. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,784.	1.2	98
31	Neutralization of soil aerosol and its impact on the distribution of acid rain over east Asia: Observations and model results. Journal of Geophysical Research, 2002, 107, ACH 6-1.	3.3	95
32	Air pollution could drive global dissemination of antibiotic resistance genes. ISME Journal, 2021, 15, 270-281.	4.4	95
33	Fluorescent water-soluble organic aerosols in the High Arctic atmosphere. Scientific Reports, 2015, 5, 9845.	1.6	94
34	Chemical composition of aerosol particles and light extinction apportionment before and during the heating season in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12708-12722.	1.2	91
35	Insights into aerosol chemistry during the 2015 China Victory Day parade: results from simultaneous measurements at ground level and 260â€ m in Beijing. Atmospheric Chemistry and Physics, 2017, 17, 3215-3232.	1.9	90
36	Variations of the increasing trend of tropospheric NO2 over central east China during the past decade. Atmospheric Environment, 2007, 41, 4865-4876.	1.9	89

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37	Chemical composition, source, and process of urban aerosols during winter haze formation in Northeast China. Environmental Pollution, 2017, 231, 357-366.	3.7	89
38	Mixing of mineral with pollution aerosols in dust season in Beijing: Revealed by source apportionment study. Atmospheric Environment, 2008, 42, 2141-2157.	1.9	88
39	Radiative and heterogeneous chemical effects of aerosols on ozone and inorganic aerosols over East Asia. Science of the Total Environment, 2018, 622-623, 1327-1342.	3.9	84
40	Health impacts of long-term ozone exposure in China over 2013â€“2017. Environment International, 2020, 144, 106030.	4.8	84
41	Modeling of Regional High Ozone Episode Observed at Two Mountain Sites (Mt. Tai and Huang) in East China. Journal of Atmospheric Chemistry, 2006, 55, 253-272.	1.4	82
42	Numerical study of Asian dust transport during the springtime of 2001 simulated with the Chemical Weather Forecasting System (CFORS) model. Journal of Geophysical Research, 2004, 109, .	3.3	80
43	Characteristics of aerosol optical properties in pollution and Asian dust episodes over Beijing, China. Applied Optics, 2008, 47, 4945.	2.1	80
44	New positive feedback mechanism between boundary layer meteorology and secondary aerosol formation during severe haze events. Scientific Reports, 2018, 8, 6095.	1.6	78
45	Primary biogenic and anthropogenic sources of organic aerosols in Beijing, China: Insights from saccharides and n-alkanes. Environmental Pollution, 2018, 243, 1579-1587.	3.7	78
46	Long-term variation of Asian dust and related climate factors. Atmospheric Environment, 2006, 40, 6730-6740.	1.9	75
47	Response of aerosol chemistry to clean air action in Beijing, China: Insights from two-year ACSM measurements and model simulations. Environmental Pollution, 2019, 255, 113345.	3.7	74
48	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 165-179.	1.9	73
49	Improved Inversion of Monthly Ammonia Emissions in China Based on the Chinese Ammonia Monitoring Network and Ensemble Kalman Filter. Environmental Science & Technology, 2019, 53, 12529-12538.	4.6	72
50	Modeling study of surface ozone source-receptor relationships in East Asia. Atmospheric Research, 2016, 167, 77-88.	1.8	71
51	Why does surface ozone peak in summertime at Waliguan?. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	69
52	Evaluation of the Models-3 Community Multi-scale Air Quality (CMAQ) modeling system with observations obtained during the TRACE-P experiment: Comparison of ozone and its related species. Atmospheric Environment, 2006, 40, 4874-4882.	1.9	69
53	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
54	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) â€“ PartÂ1: Overview and model evaluation. Atmospheric Chemistry and Physics, 2018, 18, 4859-4884.	1.9	69

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55	Sensitivity of ozone to precursor emissions in urban Beijing with a Monte Carlo scheme. Atmospheric Environment, 2010, 44, 3833-3842.	1.9	67
56	Mixing state and hygroscopicity of dust and haze particles before leaving Asian continent. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1044-1059.	1.2	67
57	Transport and transformation of sulfur compounds over East Asia during the TRACE-P and ACE-Asia campaigns. Atmospheric Environment, 2004, 38, 6947-6959.	1.9	64
58	Evolution of a lidar network for tropospheric aerosol detection in East Asia. Optical Engineering, 2016, 56, 031219.	0.5	64
59	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface PM_{2.5} Predictions. Environmental Science & Technology, 2017, 51, 2178-2185.	4.6	64
60	Urbanization and Rainfall Variability in the Beijing Metropolitan Region. Journal of Hydrometeorology, 2014, 15, 2219-2235.	0.7	62
61	Waterâ€soluble organic compounds in PM_{2.5} and sizeâ€segregated aerosols over Mount Tai in North China Plain. Journal of Geophysical Research, 2009, 114, .	3.3	61
62	Direct Observations of Fine Primary Particles From Residential Coal Burning: Insights Into Their Morphology, Composition, and Hygroscopicity. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,964.	1.2	61
63	Significant impacts of heterogeneous reactions on the chemical composition and mixing state of dust particles: A case study during dust events over northern China. Atmospheric Environment, 2017, 159, 83-91.	1.9	60
64	Large-scale structure of trace gas and aerosol distributions over the western Pacific Ocean during the Transport and Chemical Evolution Over the Pacific (TRACE-P) experiment. Journal of Geophysical Research, 2003, 108, .	3.3	59
65	Microscopic Evaluation of Trace Metals in Cloud Droplets in an Acid Precipitation Region. Environmental Science & Technology, 2013, 47, 4172-4180.	4.6	59
66	Influence of continental organic aerosols to the marine atmosphere over the East China Sea: Insights from lipids, PAHs and phthalates. Science of the Total Environment, 2017, 607-608, 339-350.	3.9	59
67	Description and Climate Simulation Performance of CASâ€ESM Version 2. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002210.	1.3	59
68	High Contribution of Nonfossil Sources to Submicrometer Organic Aerosols in Beijing, China. Environmental Science & Technology, 2017, 51, 7842-7852.	4.6	58
69	Molecular markers of biomass burning, fungal spores and biogenic SOA in the Taklimakan desert aerosols. Atmospheric Environment, 2016, 130, 64-73.	1.9	57
70	Production of N₂O₅ and ClNO₂ in summer in urban Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 11581-11597.	1.9	57
71	Direct observations of organic aerosols in common wintertime hazes in North China: insights into direct emissions from Chinese residential stoves. Atmospheric Chemistry and Physics, 2017, 17, 1259-1270.	1.9	56
72	Organic Aerosol Processing During Winter Severe Haze Episodes in Beijing. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10248-10263.	1.2	56

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73	Long-term characterization of aerosol chemistry in cold season from 2013 to 2020 in Beijing, China. Environmental Pollution, 2021, 268, 115952.	3.7	56
74	Simulation of dust aerosol radiative feedback using the Global Transport Model of Dust: 1. Dust cycle and validation. Journal of Geophysical Research, 2009, 114, .	3.3	55
75	Molecular distribution and compound-specific stable carbon isotopic composition of dicarboxylic acids, oxocarboxylic acids and <i>l±</i>-dicarbonyls in PM_{2.5} from Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 2749-2767.	1.9	55
76	Trend of acid rain and neutralization by yellow sand in east Asiaâ€”a numerical study. Atmospheric Environment, 2002, 36, 503-509.	1.9	54
77	Lidar network observations of tropospheric aerosols. , 2008, , .		54
78	Response of winter fine particulate matter concentrations to emission and meteorology changes in North China. Atmospheric Chemistry and Physics, 2016, 16, 11837-11851.	1.9	54
79	Characterization of biogenic primary and secondary organic aerosols in the marine atmosphere over the East China Sea. Atmospheric Chemistry and Physics, 2018, 18, 13947-13967.	1.9	54
80	Real-time observational evidence of changing Asian dust morphology with the mixing of heavy anthropogenic pollution. Scientific Reports, 2017, 7, 335.	1.6	53
81	MICS-Asia III: multi-model comparison and evaluation of aerosol over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 11911-11937.	1.9	53
82	Deep Learning for Air Quality Forecasts: a Review. Current Pollution Reports, 2020, 6, 399-409.	3.1	53
83	MICS-Asia II: Model inter-comparison and evaluation of acid deposition. Atmospheric Environment, 2008, 42, 3528-3542.	1.9	52
84	Simultaneous measurements of particle number size distributions at ground level and 260â€¯m on a meteorological tower in urban Beijing, China. Atmospheric Chemistry and Physics, 2017, 17, 6797-6811.	1.9	52
85	Meteorological Characteristics and Dust Distribution of the Tarim Basin Simulated by the Nesting RAMS/CFORS Dust Model. Journal of the Meteorological Society of Japan, 2005, 83A, 219-239.	0.7	51
86	Molecular Markers of Secondary Organic Aerosol in Mumbai, India. Environmental Science & Technology, 2016, 50, 4659-4667.	4.6	51
87	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
88	Springtime precipitation effects on the abundance of fluorescent biological aerosol particles and HULIS in Beijing. Scientific Reports, 2016, 6, 29618.	1.6	50
89	Probabilistic Automatic Outlier Detection for Surface Air Quality Measurements from the China National Environmental Monitoring Network. Advances in Atmospheric Sciences, 2018, 35, 1522-1532.	1.9	50
90	Simulations of monthly mean nitrate concentrations in precipitation over East Asia. Atmospheric Environment, 2002, 36, 4159-4171.	1.9	49

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91	Light absorption enhancement of black carbon in urban Beijing in summer. Atmospheric Environment, 2019, 213, 499-504.	1.9	49
92	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
93	Modeling study of ozone source apportionment over the Pearl River Delta in 2015. Environmental Pollution, 2019, 253, 393-402.	3.7	48
94	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
95	China's emission control strategies have suppressed unfavorable influences of climate on wintertime PM_{2.5} concentrations in Beijing since 2002. Atmospheric Chemistry and Physics, 2020, 20, 1497-1505.	1.9	47
96	MICS-Asia III: overview of model intercomparison and evaluation of acid deposition over Asia. Atmospheric Chemistry and Physics, 2020, 20, 2667-2693.	1.9	47
97	Model evaluation and intercomparison of surface-level ozone and relevant species in East Asia in the context of MICS-Asia Phase III â€“ Part 1: Overview. Atmospheric Chemistry and Physics, 2019, 19, 12993-13015.	1.9	46
98	A numerical study of an autumn high ozone episode over southwestern Taiwan. Atmospheric Environment, 2007, 41, 3684-3701.	1.9	45
99	Source tagging modeling study of heavy haze episodes under complex regional transport processes over Wuhan megacity, Central China. Environmental Pollution, 2017, 231, 612-621.	3.7	45
100	Summertime aerosol volatility measurements in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 10205-10216.	1.9	45
101	Numerical study of boundary layer ozone transport and photochemical production in east Asia in the wintertime. Geophysical Research Letters, 2002, 29, 40-1.	1.5	44
102	Below-cloud wet scavenging of soluble inorganic ions by rain in Beijing during the summer of 2014. Environmental Pollution, 2017, 230, 963-973.	3.7	44
103	Role of Ammonia on the Feedback Between AWC and Inorganic Aerosol Formation During Heavy Pollution in theÂNorthÂChinaÂPlain. Earth and Space Science, 2019, 6, 1675-1693.	1.1	44
104	Impacts of COVID-19 lockdown, Spring Festival and meteorology on the NO2 variations in early 2020 over China based on in-situ observations, satellite retrievals and model simulations. Atmospheric Environment, 2021, 244, 117972.	1.9	44
105	Emissions of nonmethane volatile organic compounds from open crop residue burning in the Yangtze River Delta region, China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7684-7698.	1.2	43
106	Size distributions of n-alkanes, fatty acids and fatty alcohols in springtime aerosols from New Delhi, India. Environmental Pollution, 2016, 219, 957-966.	3.7	42
107	Seasonal Characterization of Organic Nitrogen in Atmospheric Aerosols Using High Resolution Aerosol Mass Spectrometry in Beijing, China. ACS Earth and Space Chemistry, 2017, 1, 673-682.	1.2	42
108	Assessing the effects of trans-boundary aerosol transport between various city clusters on regional haze episodes in spring over East China. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 20052.	0.8	41

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109	Technical note: Boundary layer height determination from lidar for improving air pollution episode modeling: development of new algorithm and evaluation. Atmospheric Chemistry and Physics, 2017, 17, 6215-6225.	1.9	41
110	Evaluation and uncertainty investigation of the NO₂, CO and NH₃ modeling over China under the framework of MICS-AsiaÂIII. Atmospheric Chemistry and Physics, 2020, 20, 181-202.	1.9	41
111	A modeling study of sourceâ€“receptor relationships in atmospheric particulate matter over Northeast Asia. Atmospheric Environment, 2014, 91, 40-51.	1.9	40
112	Observation of the simultaneous transport of Asian mineral dust aerosols with anthropogenic pollutants using a POPC during a longâ€lasting dust event in late spring 2014. Geophysical Research Letters, 2015, 42, 1593-1598.	1.5	40
113	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
114	Emission characteristics of refractory black carbon aerosols from fresh biomass burning: a perspective from laboratory experiments. Atmospheric Chemistry and Physics, 2017, 17, 13001-13016.	1.9	40
115	Molecular Characterization and Seasonal Variation in Primary and Secondary Organic Aerosols in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,394.	1.2	38
116	Aerosol Ammonium in the Urban Boundary Layer in Beijing: Insights from Nitrogen Isotope Ratios and Simulations in Summer 2015. Environmental Science and Technology Letters, 2019, 6, 389-395.	3.9	38
117	Investigating secondary organic aerosol formation pathways in China during 2014. Atmospheric Environment, 2019, 213, 133-147.	1.9	38
118	Variation of sources and mixing mechanism of mineral dust with pollution aerosolâ€”revealed by the two peaks of a super dust storm in Beijing. Atmospheric Research, 2007, 84, 265-279.	1.8	37
119	Development of an on-line source-tagged model for sulfate, nitrate and ammonium: A modeling study for highly polluted periods in Shanghai, China. Environmental Pollution, 2017, 221, 168-179.	3.7	37
120	Estimation of atmospheric aging time of black carbon particles in the polluted atmosphere over central-eastern China using microphysical process analysis in regional chemical transport model. Atmospheric Environment, 2017, 163, 44-56.	1.9	37
121	Mixing characteristics of refractory black carbon aerosols at an urban site in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 5771-5785.	1.9	37
122	Importance of mineral dust and anthropogenic pollutants mixing during a long-lasting high PM event over East Asia. Environmental Pollution, 2018, 234, 368-378.	3.7	36
123	Impacts of springtime biomass burning in the northern Southeast Asia on marine organic aerosols over the Gulf of Tonkin, China. Environmental Pollution, 2018, 237, 285-297.	3.7	36
124	Large contributions of biogenic and anthropogenic sources to fine organic aerosols in Tianjin, North China. Atmospheric Chemistry and Physics, 2020, 20, 117-137.	1.9	36
125	A modeling of the sea breeze and its impacts on ozone distribution in northern Taiwan. Environmental Modelling and Software, 2002, 17, 21-27.	1.9	35
126	Nitrogen dioxide measurement by cavity attenuated phase shift spectroscopy (CAPS) and implications in ozone production efficiency and nitrate formation in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9499-9509.	1.2	35

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127	Response of aerosol composition to different emission scenarios in Beijing, China. Science of the Total Environment, 2016, 571, 902-908.	3.9	35
128	Chemical apportionment of aerosol optical properties during the Asiaâ€Pacific Economic Cooperation summit in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12,281.	1.2	34
129	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. Atmospheric Environment, 2012, 60, 403-418.	1.9	33
130	An evaluation of air quality modeling over the Pearl River Delta during November 2006. Meteorology and Atmospheric Physics, 2012, 116, 113-132.	0.9	33
131	Light absorption of black carbon and brown carbon in winter in North China Plain: comparisons between urban and rural sites. Science of the Total Environment, 2021, 770, 144821.	3.9	33
132	Molecular distributions and compound-specific stable carbon isotopic compositions of lipids in wintertime aerosols from Beijing. Scientific Reports, 2016, 6, 27481.	1.6	32
133	Evolutionary processes and sources of high-nitrate haze episodes over Beijing, Spring. Journal of Environmental Sciences, 2017, 54, 142-151.	3.2	32
134	Modeling of aerosol property evolution during winter haze episodes over a megacity cluster in northern China: roles of regional transport and heterogeneous reactions of SO₂. Atmospheric Chemistry and Physics, 2019, 19, 9351-9370.	1.9	32
135	High Molecular Diversity of Organic Nitrogen in Urban Snow in North China. Environmental Science & Technology, 2021, 55, 4344-4356.	4.6	32
136	Measurement report: Long-term changes in black carbon and aerosol optical properties from 2012 to 2020 in Beijing, China. Atmospheric Chemistry and Physics, 2022, 22, 561-575.	1.9	32
137	Investigating the Transport Mechanism of PM2.5 Pollution during January 2014 in Wuhan, Central China. Advances in Atmospheric Sciences, 2019, 36, 1217-1234.	1.9	31
138	Tropospheric NO2 columns over East Central China: Comparisons between SCIAMACHY measurements and nested CMAQ simulations. Atmospheric Environment, 2008, 42, 7165-7173.	1.9	30
139	Evaluation of the effect of air pollution control during the Beijing 2008 Olympic Games using Lidar data. Science Bulletin, 2010, 55, 1311-1316.	1.7	30
140	Composition and hygroscopicity of aerosol particles at Mt. Lu in South China: Implications for acid precipitation. Atmospheric Environment, 2014, 94, 626-636.	1.9	30
141	Aerosol optical properties measurements by a CAPS single scattering albedo monitor: Comparisons between summer and winter in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2513-2526.	1.2	30
142	Increase of High Molecular Weight Organosulfate With Intensifying Urban Air Pollution in the Megacity Beijing. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032200.	1.2	30
143	How do aerosols above the residual layer affect the planetary boundary layer height?. Science of the Total Environment, 2022, 814, 151953.	3.9	30
144	Molecular composition and seasonal variation of amino acids in urban aerosols from Beijing, China. Atmospheric Research, 2018, 203, 28-35.	1.8	29

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145	Effectiveness of short-term air quality emission controls: a high-resolution model study of Beijing during the Asia-Pacific Economic Cooperation (APEC) summit period. Atmospheric Chemistry and Physics, 2019, 19, 8651-8668.	1.9	29
146	Temporal characteristics and vertical distribution of atmospheric ammonia and ammonium in winter in Beijing. Science of the Total Environment, 2019, 681, 226-234.	3.9	29
147	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. Atmospheric Environment, 2019, 204, 1-11.	1.9	28
148	Multi-method determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 15569-15581.	1.9	28
149	Vertical Characterization and Source Apportionment of Water-Soluble Organic Aerosol with High-resolution Aerosol Mass Spectrometry in Beijing, China. ACS Earth and Space Chemistry, 2019, 3, 273-284.	1.2	28
150	Characterization and source apportionment of organic aerosol at 260â€‰m on aÂmeteorological tower in Beijing, China. Atmospheric Chemistry and Physics, 2018, 18, 3951-3968.	1.9	27
151	Simulation on different response characteristics of aerosol particle number concentration and mass concentration to emission changes over mainland China. Science of the Total Environment, 2018, 643, 692-703.	3.9	27
152	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
153	Mass spectral characterization of primary emissions and implications in source apportionment of organic aerosol. Atmospheric Measurement Techniques, 2020, 13, 3205-3219.	1.2	27
154	Record Heavy PM_{2.5} Air Pollution over China in January 2013: Vertical and Horizontal Dimensions. Scientific Online Letters on the Atmosphere, 2014, 10, 136-140.	0.6	26
155	Impacts of updated emission inventories on source apportionment of fine particle and ozone over the southeastern U.S.. Atmospheric Environment, 2014, 88, 133-154.	1.9	26
156	Limitations of ozone data assimilation with adjustment of NO_{<i>x</i>} emissions: mixed effects on NO₂ forecasts over Beijing and surrounding areas. Atmospheric Chemistry and Physics, 2016, 16, 6395-6405.	1.9	26
157	Effects of Regional Transport on Haze in the North China Plain: Transport of Precursors or Secondary Inorganic Aerosols. Geophysical Research Letters, 2020, 47, e2020GL087461.	1.5	26
158	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
159	Stable sulfur isotope ratios and chemical compositions of fine aerosols (PM2.5) in Beijing, China. Science of the Total Environment, 2018, 633, 1156-1164.	3.9	25
160	A Case Study of Investigating Secondary Organic Aerosol Formation Pathways in Beijing using an Observation-based SOA Box Model. Aerosol and Air Quality Research, 2018, 18, 1606-1616.	0.9	25
161	Cloud scavenging of anthropogenic refractory particles at a mountain site in North China. Atmospheric Chemistry and Physics, 2018, 18, 14681-14693.	1.9	25
162	Excitation-emission matrix fluorescence, molecular characterization and compound-specific stable carbon isotopic composition of dissolved organic matter in cloud water over Mt. Tai. Atmospheric Environment, 2019, 213, 608-619.	1.9	25

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163	Abundance and Diurnal Trends of Fluorescent Bioaerosols in the Troposphere over Mt. Tai, China, in Spring. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4158-4173.	1.2	25
164	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
165	Measurement report: Optical properties and sources of water-soluble brown carbon in Tianjin, North China â€“ insights from organic molecular compositions. Atmospheric Chemistry and Physics, 2022, 22, 6449-6470.	1.9	25
166	Laboratory measurements of emission factors of nonmethane volatile organic compounds from burning of Chinese crop residues. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5237-5252.	1.2	24
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