

Zifa Wang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5775725/zifa-wang-publications-by-citations.pdf>

Version: 2024-04-26

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

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

344
papers

11,410
citations

51
h-index

94
g-index

373
ext. papers

14,056
ext. citations

6.2
avg, IF

6.26
L-index

#	Paper	IF	Citations
344	Drivers of improved PM air quality in China from 2013 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24463-24469	11.5	578
343	Asian dust transported one full circuit around the globe. <i>Nature Geoscience</i> , 2009 , 2, 557-560	18.3	525
342	Investigation of the sources and evolution processes of severe haze pollution in Beijing in January 2013. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4380-4398	4.4	505
341	The air-borne particulate pollution in Beijing—concentration, composition, distribution and sources. <i>Atmospheric Environment</i> , 2004 , 38, 5991-6004	5.3	473
340	Air quality during the 2008 Beijing Olympic Games. <i>Atmospheric Environment</i> , 2007 , 41, 480-492	5.3	413
339	The impact of relative humidity on aerosol composition and evolution processes during wintertime in Beijing, China. <i>Atmospheric Environment</i> , 2013 , 77, 927-934	5.3	270
338	Characterization of summer organic and inorganic aerosols in Beijing, China with an Aerosol Chemical Speciation Monitor. <i>Atmospheric Environment</i> , 2012 , 51, 250-259	5.3	245
337	Modeling study of regional severe hazes over mid-eastern China in January 2013 and its implications on pollution prevention and control. <i>Science China Earth Sciences</i> , 2014 , 57, 3-13	4.6	210
336	Primary and secondary aerosols in Beijing in winter: sources, variations and processes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8309-8329	6.8	206
335	Particulate matter pollution over China and the effects of control policies. <i>Science of the Total Environment</i> , 2017 , 584-585, 426-447	10.2	193
334	PM in the Yangtze River Delta, China: Chemical compositions, seasonal variations, and regional pollution events. <i>Environmental Pollution</i> , 2017 , 223, 200-212	9.3	180
333	Organic molecular compositions and temporal variations of summertime mountain aerosols over Mt. Tai, North China Plain. <i>Journal of Geophysical Research</i> , 2008 , 113,		169
332	A deflation module for use in modeling long-range transport of yellow sand over East Asia. <i>Journal of Geophysical Research</i> , 2000 , 105, 26947-26959		134
331	"APEC Blue": Secondary Aerosol Reductions from Emission Controls in Beijing. <i>Scientific Reports</i> , 2016 , 6, 20668	4.9	132
330	Acid deposition in Asia: Emissions, deposition, and ecosystem effects. <i>Atmospheric Environment</i> , 2016 , 146, 55-69	5.3	131
329	Rapid formation and evolution of an extreme haze episode in Northern China during winter 2015. <i>Scientific Reports</i> , 2016 , 6, 27151	4.9	131
328	Effects of Aqueous-Phase and Photochemical Processing on Secondary Organic Aerosol Formation and Evolution in Beijing, China. <i>Environmental Science & Technology</i> , 2017 , 51, 762-770	10.3	127

327	Chemical composition of dust storms in Beijing and implications for the mixing of mineral aerosol with pollution aerosol on the pathway. <i>Journal of Geophysical Research</i> , 2005 , 110,		118
326	Modeling study of ozone seasonal cycle in lower troposphere over east Asia. <i>Journal of Geophysical Research</i> , 2007 , 112,		109
325	Changes in Aerosol Chemistry From 2014 to 2016 in Winter in Beijing: Insights From High-Resolution Aerosol Mass Spectrometry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1132-1147	4.4	109
324	Rapid formation of a severe regional winter haze episode over a mega-city cluster on the North China Plain. <i>Environmental Pollution</i> , 2017 , 223, 605-615	9.3	107
323	Atmospheric input of mineral dust to the western North Pacific region based on direct measurements and a regional chemical transport model. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	103
322	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. <i>Science of the Total Environment</i> , 2020 , 742, 140739	10.2	91
321	Isotopic Composition of Atmospheric Mercury in China: New Evidence for Sources and Transformation Processes in Air and in Vegetation. <i>Environmental Science & Technology</i> , 2016 , 50, 9262-9	10.3	91
320	The evolution of chemical components of aerosols at five monitoring sites of China during dust storms. <i>Atmospheric Environment</i> , 2007 , 41, 1091-1106	5.3	89
319	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. <i>Environmental Science & Technology</i> , 2015 , 49, 11340-7	10.3	87
318	Contributions of biogenic volatile organic compounds to the formation of secondary organic aerosols over Mt. Tai, Central East China. <i>Atmospheric Environment</i> , 2010 , 44, 4817-4826	5.3	86
317	A conceptual framework for mixing structures in individual aerosol particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,784-13,798	4.4	78
316	Mixing of mineral with pollution aerosols in dust season in Beijing: Revealed by source apportionment study. <i>Atmospheric Environment</i> , 2008 , 42, 2141-2157	5.3	78
315	Variations of the increasing trend of tropospheric NO ₂ over central east China during the past decade. <i>Atmospheric Environment</i> , 2007 , 41, 4865-4876	5.3	77
314	Neutralization of soil aerosol and its impact on the distribution of acid rain over east Asia: Observations and model results. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 6-1		75
313	Chemical composition of aerosol particles and light extinction apportionment before and during the heating season in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12708-12722	4.4	74
312	Numerical study of Asian dust transport during the springtime of 2001 simulated with the Chemical Weather Forecasting System (CFORS) model. <i>Journal of Geophysical Research</i> , 2004 , 109,		74
311	Source apportionment of organic aerosol from 2-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8469-8489	6.8	70
310	Insights into aerosol chemistry during the 2015 China Victory Day parade: results from simultaneous measurements at ground level and 260 m in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3215-3232	6.8	70

309	Modeling of Regional High Ozone Episode Observed at Two Mountain Sites (Mt. Tai and Huang) in East China. <i>Journal of Atmospheric Chemistry</i> , 2006 , 55, 253-272	3.2	70
308	Fluorescent water-soluble organic aerosols in the High Arctic atmosphere. <i>Scientific Reports</i> , 2015 , 5, 9845	4.9	65
307	Characteristics of aerosol optical properties in pollution and Asian dust episodes over Beijing, China. <i>Applied Optics</i> , 2008 , 47, 4945-51	0.2	62
306	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. <i>Atmospheric Environment</i> , 2006 , 40, 4874-4882	5.3	61
305	Long-term variation of Asian dust and related climate factors. <i>Atmospheric Environment</i> , 2006 , 40, 6730-6740	5.9	61
304	Why does surface ozone peak in summertime at Waliguan?. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	n/a	60
303	Chemical composition, source, and process of urban aerosols during winter haze formation in Northeast China. <i>Environmental Pollution</i> , 2017 , 231, 357-366	9.3	59
302	Transport and transformation of sulfur compounds over East Asia during the TRACE-P and ACE-Asia campaigns. <i>Atmospheric Environment</i> , 2004 , 38, 6947-6959	5.3	59
301	Sensitivity of ozone to precursor emissions in urban Beijing with a Monte Carlo scheme. <i>Atmospheric Environment</i> , 2010 , 44, 3833-3842	5.3	55
300	Radiative and heterogeneous chemical effects of aerosols on ozone and inorganic aerosols over East Asia. <i>Science of the Total Environment</i> , 2018 , 622-623, 1327-1342	10.2	54
299	Vertical characterization of aerosol optical properties and brown carbon in winter in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 165-179	6.8	52
298	New positive feedback mechanism between boundary layer meteorology and secondary aerosol formation during severe haze events. <i>Scientific Reports</i> , 2018 , 8, 6095	4.9	52
297	Mixing state and hygroscopicity of dust and haze particles before leaving Asian continent. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1044-1059	4.4	52
296	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. <i>Journal of Geophysical Research</i> , 2003 , 108,		52
295	Vertically resolved characteristics of air pollution during two severe winter haze episodes in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2495-2509	6.8	51
294	Urbanization and Rainfall Variability in the Beijing Metropolitan Region. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2219-2235	3.7	51
293	Water-soluble organic compounds in PM _{2.5} and size-segregated aerosols over Mount Tai in North China Plain. <i>Journal of Geophysical Research</i> , 2009 , 114,		51
292	Modeling study of surface ozone source-receptor relationships in East Asia. <i>Atmospheric Research</i> , 2016 , 167, 77-88	5.4	49

291	High Contribution of Nonfossil Sources to Submicrometer Organic Aerosols in Beijing, China. <i>Environmental Science & Technology</i> , 2017 , 51, 7842-7852	10.3	49
290	Simulation of dust aerosol radiative feedback using the Global Transport Model of Dust: 1. Dust cycle and validation. <i>Journal of Geophysical Research</i> , 2009 , 114,		49
289	Lidar network observations of tropospheric aerosols 2008 ,		49
288	Trend of acid rain and neutralization by yellow sand in east Asia—numerical study. <i>Atmospheric Environment</i> , 2002 , 36, 503-509	5.3	48
287	Simulations of monthly mean nitrate concentrations in precipitation over East Asia. <i>Atmospheric Environment</i> , 2002 , 36, 4159-4171	5.3	48
286	Meteorological Characteristics and Dust Distribution of the Tarim Basin Simulated by the Nesting RAMS/CFORS Dust Model. <i>Journal of the Meteorological Society of Japan</i> , 2005 , 83A, 219-239	2.8	48
285	MICS-Asia II: Model inter-comparison and evaluation of acid deposition. <i>Atmospheric Environment</i> , 2008 , 42, 3528-3542	5.3	47
284	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface PM Predictions. <i>Environmental Science & Technology</i> , 2017 , 51, 2178-2185	10.3	46
283	Response of aerosol chemistry to clean air action in Beijing, China: Insights from two-year ACSM measurements and model simulations. <i>Environmental Pollution</i> , 2019 , 255, 113345	9.3	46
282	Model elucidating the sources and formation mechanisms of severe haze pollution over Northeast mega-city cluster in China. <i>Environmental Pollution</i> , 2017 , 230, 692-700	9.3	46
281	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) [Part I]: Overview and model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4859-4884	6.8	45
280	Evolution of a lidar network for tropospheric aerosol detection in East Asia. <i>Optical Engineering</i> , 2016 , 56, 031219	1.1	44
279	Direct Observations of Fine Primary Particles From Residential Coal Burning: Insights Into Their Morphology, Composition, and Hygroscopicity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,964	4.4	44
278	Significant impacts of heterogeneous reactions on the chemical composition and mixing state of dust particles: A case study during dust events over northern China. <i>Atmospheric Environment</i> , 2017 , 159, 83-91	5.3	43
277	Direct observations of organic aerosols in common wintertime hazes in North China: insights into direct emissions from Chinese residential stoves. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1259-1270	6.8	43
276	Microscopic evaluation of trace metals in cloud droplets in an acid precipitation region. <i>Environmental Science & Technology</i> , 2013 , 47, 4172-80	10.3	43
275	Molecular markers of biomass burning, fungal spores and biogenic SOA in the Taklimakan desert aerosols. <i>Atmospheric Environment</i> , 2016 , 130, 64-73	5.3	42
274	Primary biogenic and anthropogenic sources of organic aerosols in Beijing, China: Insights from saccharides and n-alkanes. <i>Environmental Pollution</i> , 2018 , 243, 1579-1587	9.3	42

273	Real-time observational evidence of changing Asian dust morphology with the mixing of heavy anthropogenic pollution. <i>Scientific Reports</i> , 2017 , 7, 335	4.9	41
272	Influence of continental organic aerosols to the marine atmosphere over the East China Sea: Insights from lipids, PAHs and phthalates. <i>Science of the Total Environment</i> , 2017 , 607-608, 339-350	10.2	41
271	Response of winter fine particulate matter concentrations to emission and meteorology changes in North China. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11837-11851	6.8	40
270	Improving simulations of sulfate aerosols during winter haze over Northern China: the impacts of heterogeneous oxidation by NO ₂ . <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 1	5.8	40
269	Production of N ₂ O ₅ and ClNO ₂ in summer in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11581-11597	6.8	40
268	Improved Inversion of Monthly Ammonia Emissions in China Based on the Chinese Ammonia Monitoring Network and Ensemble Kalman Filter. <i>Environmental Science & Technology</i> , 2019 , 53, 12529-12538	10.3	37
267	Source tagging modeling study of heavy haze episodes under complex regional transport processes over Wuhan megacity, Central China. <i>Environmental Pollution</i> , 2017 , 231, 612-621	9.3	37
266	Emissions of nonmethane volatile organic compounds from open crop residue burning in the Yangtze River Delta region, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7684-7698	4.4	37
265	Numerical study of boundary layer ozone transport and photochemical production in east Asia in the wintertime. <i>Geophysical Research Letters</i> , 2002 , 29, 40-1	4.9	37
264	Springtime precipitation effects on the abundance of fluorescent biological aerosol particles and HULIS in Beijing. <i>Scientific Reports</i> , 2016 , 6, 29618	4.9	37
263	Molecular distribution and compound-specific stable carbon isotopic composition of dicarboxylic acids, oxocarboxylic acids and α,β -dicarbonyls in PM _{2.5} from Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2749-2767	6.8	36
262	Simultaneous measurements of particle number size distributions at ground level and 260 m on a meteorological tower in urban Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6797-6811	6.8	35
261	Molecular Markers of Secondary Organic Aerosol in Mumbai, India. <i>Environmental Science & Technology</i> , 2016 , 50, 4659-67	10.3	35
260	MICS-Asia III: multi-model comparison and evaluation of aerosol over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11911-11937	6.8	35
259	A modeling study of source-receptor relationships in atmospheric particulate matter over Northeast Asia. <i>Atmospheric Environment</i> , 2014 , 91, 40-51	5.3	34
258	Variation of sources and mixing mechanism of mineral dust with pollution aerosol revealed by the two peaks of a super dust storm in Beijing. <i>Atmospheric Research</i> , 2007 , 84, 265-279	5.4	33
257	Model evaluation and intercomparison of surface-level ozone and relevant species in East Asia in the context of MICS-Asia Phase III [Part 1: Overview. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12993-13015	6.8	33
256	Response of aerosol composition to different emission scenarios in Beijing, China. <i>Science of the Total Environment</i> , 2016 , 571, 902-8	10.2	32

255	Air pollution over the North China Plain and its implication of regional transport: A new sight from the observed evidences. <i>Environmental Pollution</i> , 2018 , 234, 29-38	9.3	32
254	Organic Aerosol Processing During Winter Severe Haze Episodes in Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10248-10263	4.4	31
253	Technical note: Boundary layer height determination from lidar for improving air pollution episode modeling: development of new algorithm and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6215-6225	6.8	31
252	Observation of the simultaneous transport of Asian mineral dust aerosols with anthropogenic pollutants using a POPC during a long-lasting dust event in late spring 2014. <i>Geophysical Research Letters</i> , 2015 , 42, 1593-1598	4.9	31
251	A numerical study of an autumn high ozone episode over southwestern Taiwan. <i>Atmospheric Environment</i> , 2007 , 41, 3684-3701	5.3	31
250	Molecular Characterization and Seasonal Variation in Primary and Secondary Organic Aerosols in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,394-12,412	4.4	31
249	Characterization of biogenic primary and secondary organic aerosols in the marine atmosphere over the East China Sea. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13947-13967	6.8	31
248	Distinguishing the roles of meteorology, emission control measures, regional transport, and co-benefits of reduced aerosol feedbacks in APEC Blue. <i>Atmospheric Environment</i> , 2017 , 167, 476-486	5.3	30
247	Seasonal Characterization of Organic Nitrogen in Atmospheric Aerosols Using High Resolution Aerosol Mass Spectrometry in Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2017 , 1, 673-682	3.2	30
246	Assessing the effects of trans-boundary aerosol transport between various city clusters on regional haze episodes in spring over East China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013 , 65, 20052	3.3	30
245	MICS-Asia III: overview of model intercomparison and evaluation of acid deposition over Asia. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2667-2693	6.8	30
244	Health impacts of long-term ozone exposure in China over 2013-2017. <i>Environment International</i> , 2020 , 144, 106030	12.9	29
243	A 6-year-long (2013-2018) high-resolution air quality reanalysis dataset in China based on the assimilation of surface observations from CNEMC. <i>Earth System Science Data</i> , 2021 , 13, 529-570	10.5	29
242	China's emission control strategies have suppressed unfavorable influences of climate on wintertime PM _{2.5} concentrations in Beijing since 2002. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1497-1505	6.8	28
241	Role of Ammonia on the Feedback Between AWC and Inorganic Aerosol Formation During Heavy Pollution in the North China Plain. <i>Earth and Space Science</i> , 2019 , 6, 1675-1693	3.1	28
240	Nitrogen dioxide measurement by cavity attenuated phase shift spectroscopy (CAPS) and implications in ozone production efficiency and nitrate formation in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9499-9509	4.4	28
239	A modeling of the sea breeze and its impacts on ozone distribution in northern Taiwan. <i>Environmental Modelling and Software</i> , 2002 , 17, 21-27	5.2	28
238	Size distributions of n-alkanes, fatty acids and fatty alcohols in springtime aerosols from New Delhi, India. <i>Environmental Pollution</i> , 2016 , 219, 957-966	9.3	28

237	Air pollution could drive global dissemination of antibiotic resistance genes. <i>ISME Journal</i> , 2021 , 15, 270-284	28
236	Evolutionary processes and sources of high-nitrate haze episodes over Beijing, Spring. <i>Journal of Environmental Sciences</i> , 2017 , 54, 142-151	6.4 27
235	An evaluation of air quality modeling over the Pearl River Delta during November 2006. <i>Meteorology and Atmospheric Physics</i> , 2012 , 116, 113-132	2 27
234	Tropospheric NO ₂ columns over East Central China: Comparisons between SCIAMACHY measurements and nested CMAQ simulations. <i>Atmospheric Environment</i> , 2008 , 42, 7165-7173	5.3 27
233	Composition and hygroscopicity of aerosol particles at Mt. Lu in South China: Implications for acid precipitation. <i>Atmospheric Environment</i> , 2014 , 94, 626-636	5.3 26
232	Chemical apportionment of aerosol optical properties during the Asia-Pacific Economic Cooperation summit in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12,2814-4	4.4 26
231	Molecular distributions and compound-specific stable carbon isotopic compositions of lipids in wintertime aerosols from Beijing. <i>Scientific Reports</i> , 2016 , 6, 27481	4.9 26
230	Probabilistic Automatic Outlier Detection for Surface Air Quality Measurements from the China National Environmental Monitoring Network. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 1522-1532	2.9 26
229	Light absorption enhancement of black carbon in urban Beijing in summer. <i>Atmospheric Environment</i> , 2019 , 213, 499-504	5.3 25
228	Impacts of springtime biomass burning in the northern Southeast Asia on marine organic aerosols over the Gulf of Tonkin, China. <i>Environmental Pollution</i> , 2018 , 237, 285-297	9.3 25
227	Below-cloud wet scavenging of soluble inorganic ions by rain in Beijing during the summer of 2014. <i>Environmental Pollution</i> , 2017 , 230, 963-973	9.3 25
226	Evaluation of the effect of air pollution control during the Beijing 2008 Olympic Games using Lidar data. <i>Science Bulletin</i> , 2010 , 55, 1311-1316	25
225	Development of an on-line source-tagged model for sulfate, nitrate and ammonium: A modeling study for highly polluted periods in Shanghai, China. <i>Environmental Pollution</i> , 2017 , 221, 168-179	9.3 24
224	Aerosol optical properties measurements by a CAPS single scattering albedo monitor: Comparisons between summer and winter in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2513-2526	4.4 24
223	Modeling study of ozone source apportionment over the Pearl River Delta in 2015. <i>Environmental Pollution</i> , 2019 , 253, 393-402	9.3 24
222	Record Heavy PM _{2.5} Air Pollution over China in January 2013: Vertical and Horizontal Dimensions. <i>Scientific Online Letters on the Atmosphere</i> , 2014 , 10, 136-140	2.1 24
221	Impact of different transport mechanisms of Asian dust and anthropogenic pollutants to Taiwan. <i>Atmospheric Environment</i> , 2012 , 60, 403-418	5.3 24
220	Evaluation and uncertainty investigation of the NO ₂ , CO and NH ₃ modeling over China under the framework of MICS-AsiaIII. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 181-202	6.8 24

219	Impacts of COVID-19 lockdown, Spring Festival and meteorology on the NO variations in early 2020 over China based on in-situ observations, satellite retrievals and model simulations. <i>Atmospheric Environment</i> , 2021 , 244, 117972	5.3	24
218	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. <i>Atmospheric Environment</i> , 2017 , 163, 44-56	5.3	23
217	Importance of mineral dust and anthropogenic pollutants mixing during a long-lasting high PM event over East Asia. <i>Environmental Pollution</i> , 2018 , 234, 368-378	9.3	23
216	Characterization and source apportionment of organic aerosol at 260 m on a meteorological tower in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3951-3968	6.8	23
215	Emission characteristics of refractory black carbon aerosols from fresh biomass burning: a perspective from laboratory experiments. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13001-13016	6.8	23
214	Impacts of updated emission inventories on source apportionment of fine particle and ozone over the southeastern U.S.. <i>Atmospheric Environment</i> , 2014 , 88, 133-154	5.3	23
213	Aerosol Ammonium in the Urban Boundary Layer in Beijing: Insights from Nitrogen Isotope Ratios and Simulations in Summer 2015. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 389-395	11	22
212	Modeling study of source contributions and emergency control effects during a severe haze episode over the Beijing-Tianjin-Hebei area. <i>Science China Chemistry</i> , 2015 , 58, 1403-1415	7.9	22
211	Temporal characteristics and vertical distribution of atmospheric ammonia and ammonium in winter in Beijing. <i>Science of the Total Environment</i> , 2019 , 681, 226-234	10.2	21
210	Simulation on different response characteristics of aerosol particle number concentration and mass concentration to emission changes over mainland China. <i>Science of the Total Environment</i> , 2018 , 643, 692-703	10.2	21
209	Laboratory measurements of emission factors of nonmethane volatile organic compounds from burning of Chinese crop residues. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5237-5252	4.4	21
208	Description and Climate Simulation Performance of CAS-ESM Version 2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002210	7.1	21
207	Molecular composition and seasonal variation of amino acids in urban aerosols from Beijing, China. <i>Atmospheric Research</i> , 2018 , 203, 28-35	5.4	21
206	Summertime aerosol volatility measurements in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10205-10216	6.8	20
205	Investigating secondary organic aerosol formation pathways in China during 2014. <i>Atmospheric Environment</i> , 2019 , 213, 133-147	5.3	20
204	Anthropogenic pollution elevates the peak height of new particle formation from planetary boundary layer to lower free troposphere. <i>Geophysical Research Letters</i> , 2017 , 44, 7537-7543	4.9	20
203	Effect of urbanization on the winter precipitation distribution in Beijing area. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 250-256		20
202	Characterization of OMI Tropospheric NO ₂ Measurements in East Asia Based on a Robust Validation Comparison. <i>Scientific Online Letters on the Atmosphere</i> , 2009 , 5, 117-120	2.1	20

201	Cloud scavenging of anthropogenic refractory particles at a mountain site in North China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14681-14693	6.8	20
200	Large contributions of biogenic and anthropogenic sources to fine organic aerosols in Tianjin, North China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 117-137	6.8	19
199	Modeling of aerosol property evolution during winter haze episodes over a megacity cluster in northern China: roles of regional transport and heterogeneous reactions of SO ₂ and NO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9351-9370	6.8	19
198	Effectiveness of short-term air quality emission controls: a high-resolution model study of Beijing during the Asia-Pacific Economic Cooperation (APEC) summit period. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8651-8668	6.8	19
197	Modeling of the impacts of China's anthropogenic pollutants on the surface ozone summer maximum on the northern Tibetan Plateau. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	19
196	Improving new particle formation simulation by coupling a volatility-basis set (VBS) organic aerosol module in NAQPMS+APM. <i>Atmospheric Environment</i> , 2019 , 204, 1-11	5.3	18
195	Vertical Characterization and Source Apportionment of Water-Soluble Organic Aerosol with High-resolution Aerosol Mass Spectrometry in Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 273-284	3.2	18
194	Fine particle characterization in a coastal city in China: composition, sources, and impacts of industrial emissions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2877-2890	6.8	17
193	Stable sulfur isotope ratios and chemical compositions of fine aerosols (PM) in Beijing, China. <i>Science of the Total Environment</i> , 2018 , 633, 1156-1164	10.2	17
192	Limitations of ozone data assimilation with adjustment of NO _x emissions: mixed effects on NO ₂ forecasts over Beijing and surrounding areas. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6395-6405	6.8	17
191	Polarization properties of aerosol particles over western Japan: classification, seasonal variation, and implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9863-9873	6.8	17
190	Investigating the Transport Mechanism of PM _{2.5} Pollution during January 2014 in Wuhan, Central China. <i>Advances in Atmospheric Sciences</i> , 2019 , 36, 1217-1234	2.9	17
189	High Abundance of Fluorescent Biological Aerosol Particles in Winter in Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2017 , 1, 493-502	3.2	17
188	Enhanced levels of atmospheric low-molecular weight monocarboxylic acids in gas and particulates over Mt. Tai, North China, during field burning of agricultural wastes. <i>Atmospheric Environment</i> , 2017 , 171, 237-247	5.3	16
187	Excitation-emission matrix fluorescence, molecular characterization and compound-specific stable carbon isotopic composition of dissolved organic matter in cloud water over Mt. Tai. <i>Atmospheric Environment</i> , 2019 , 213, 608-619	5.3	16
186	Abundance and Diurnal Trends of Fluorescent Bioaerosols in the Troposphere over Mt. Tai, China, in Spring. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4158-4173	4.4	16
185	A Numerical Study on the Interaction of a Sea-breeze Front with Convective Cells in the Daytime Boundary Layer. <i>Journal of the Meteorological Society of Japan</i> , 2003 , 81, 635-651	2.8	16
184	Numerical Study of The Effect of Traffic Restriction on Air Quality in Beijing. <i>Scientific Online Letters on the Atmosphere</i> , 2010 , 6A, 17-20	2.1	16

183	Synergistic effect of water-soluble species and relative humidity on morphological changes in aerosol particles in the Beijing megacity during severe pollution episodes. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 219-232	6.8	15
182	Comparison of surface ozone simulation among selected regional models in MICS-Asia III Effects of chemistry and vertical transport for the causes of difference. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 603-615	6.8	15
181	Pollution situation and possible markers of different sources in the Ordos Region, Inner Mongolia, China. <i>Science of the Total Environment</i> , 2010 , 408, 624-35	10.2	15
180	Model bias correction for dust storm forecast using ensemble Kalman filter. <i>Journal of Geophysical Research</i> , 2008 , 113,		15
179	Simulations of Asian Yellow Dust Incursion Over Taiwan for the Spring of 2002 and 2003. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004 , 15, 949	1.8	15
178	Aerosol Particles from Dried Salt-Lakes and Saline Soils Carried on Dust Storms over Beijing. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009 , 20, 619	1.8	15
177	Long-term characterization of aerosol chemistry in cold season from 2013 to 2020 in Beijing, China. <i>Environmental Pollution</i> , 2021 , 268, 115952	9.3	15
176	A Case Study of Investigating Secondary Organic Aerosol Formation Pathways in Beijing using an Observation-based SOA Box Model. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 1606-1616	4.6	15
175	Mixing characteristics of refractory black carbon aerosols at an urban site in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5771-5785	6.8	14
174	New insights into the sources and formation of carbonaceous aerosols in China: potential applications of dual-carbon isotopes. <i>National Science Review</i> , 2017 , 4, 804-806	10.8	14
173	Simultaneous measurements of new particle formation at 1 s time resolution at a street site and a rooftop site. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9469-9484	6.8	14
172	Modeling the Long-Range Transport of Particulate Matters for January in East Asia using NAQPMS and CMAQ. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 3064-3078	4.6	14
171	Why do models perform differently on particulate matter over East Asia? A multi-model intercomparison study for MICS-Asia III. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7393-7410	6.8	13
170	Diurnal variations of carbonaceous components, major ions, and stable carbon and nitrogen isotope ratios in suburban aerosols from northern vicinity of Beijing. <i>Atmospheric Environment</i> , 2015 , 123, 18-24	5.3	13
169	Impact of Chemical Production and Transport on Summertime Diurnal Ozone Behavior at a Mountainous Site in North China Plain. <i>Scientific Online Letters on the Atmosphere</i> , 2008 , 4, 121-124	2.1	13
168	Numerical modeling of pollutant transport and chemistry during a high-ozone event in northern Taiwan. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 1189-1205	3.3	13
167	A 3D study on the amplification of regional haze and particle growth by local emissions. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	13
166	Nocturnal Low-level Winds and Their Impacts on Particulate Matter over the Beijing Area. <i>Advances in Atmospheric Sciences</i> , 2018 , 35, 1455-1468	2.9	13

165	Mass spectral characterization of primary emissions and implications in source apportionment of organic aerosol. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3205-3219	4	12
164	Increase of High Molecular Weight Organosulfate With Intensifying Urban Air Pollution in the Megacity Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032200	4.4	12
163	Molecular markers of biomass burning and primary biological aerosols in urban Beijing: size distribution and seasonal variation. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3623-3644	6.8	12
162	Deep Learning for Air Quality Forecasts: a Review. <i>Current Pollution Reports</i> , 2020 , 6, 399-409	7.6	12
161	Source Identification of Acid Rain Arising over Northeast China: Observed Evidence and Model Simulation. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 1366-1377	4.6	12
160	Multi-method determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 15569-15581	6.8	12
159	Variability of depolarization of aerosol particles in the megacity of Beijing: implications for the interaction between anthropogenic pollutants and mineral dust particles. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 18203-18217	6.8	12
158	The organic molecular composition, diurnal variation, and stable carbon isotope ratios of PM in Beijing during the 2014 APEC summit. <i>Environmental Pollution</i> , 2018 , 243, 919-928	9.3	12
157	Temporal and diurnal variations of carbonaceous aerosols and major ions in biomass burning influenced aerosols over Mt. Tai in the North China Plain during MTX2006. <i>Atmospheric Environment</i> , 2017 , 154, 106-117	5.3	11
156	A Black Carbon-Tracer Method for Estimating Cooking Organic Aerosol From Aerosol Mass Spectrometer Measurements. <i>Geophysical Research Letters</i> , 2019 , 46, 8474-8483	4.9	11
155	Environmental ecological modeling of human blood lead levels in East Asia. <i>Environmental Science & Technology</i> , 2011 , 45, 2856-62	10.3	11
154	Gravity-Current Driven Transport of Haze from North China Plain to Northeast China in Winter 2010-Part I: Observations. <i>Scientific Online Letters on the Atmosphere</i> , 2012 , 8, 13-16	2.1	11
153	Regional Impact of Biomass Burning in Southeast Asia on Atmospheric Aerosols during the 2013 Seven South-East Asian Studies Project. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 2924-2941	4.6	11
152	Improvement of the Real-time PM _{2.5} Forecast over the Beijing-Tianjin-Hebei Region using an Optimal Interpolation Data Assimilation Method. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 1305-1316	4.6	11
151	Hygroscopic behavior of water-soluble matter in marine aerosols over the East China Sea. <i>Science of the Total Environment</i> , 2017 , 578, 307-316	10.2	10
150	Explaining the spatiotemporal variation of fine particle number concentrations over Beijing and surrounding areas in an air quality model with aerosol microphysics. <i>Environmental Pollution</i> , 2017 , 231, 1302-1313	9.3	10
149	Contrasting mixing state of black carbon-containing particles in summer and winter in Beijing. <i>Environmental Pollution</i> , 2020 , 263, 114455	9.3	10
148	Three-year, 5 km resolution China PM 2.5 simulation: Model performance evaluation. <i>Atmospheric Research</i> , 2018 , 207, 1-13	5.4	10

147	Quantitative Determination of Hydroxymethanesulfonate (HMS) Using Ion Chromatography and UHPLC-LTQ-Orbitrap Mass Spectrometry: A Missing Source of Sulfur during Haze Episodes in Beijing. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 701-707	11	10
146	Light absorption of black carbon and brown carbon in winter in North China Plain: comparisons between urban and rural sites. <i>Science of the Total Environment</i> , 2021 , 770, 144821	10.2	10
145	Composition and mixing state of water soluble inorganic ions during hazy days in a background region of North China. <i>Science China Earth Sciences</i> , 2015 , 58, 2026-2033	4.6	9
144	Characteristics of the source apportionment of primary and secondary inorganic PM in the Pearl River Delta region during 2015 by numerical modeling. <i>Environmental Pollution</i> , 2020 , 267, 115418	9.3	9
143	Investigating the impacts of coal-fired power plants on ambient PM by a combination of a chemical transport model and receptor model. <i>Science of the Total Environment</i> , 2020 , 727, 138407	10.2	9
142	Acute and chronic health impacts of PM _{2.5} in China and the influence of interannual meteorological variability. <i>Atmospheric Environment</i> , 2020 , 229, 117397	5.3	9
141	Molecular characterization of firework-related urban aerosols using Fourier transform ion cyclotron resonance mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6803-6820	6.8	9
140	Molecular and spatial distributions of dicarboxylic acids, oxocarboxylic acids, and α,β -dicarbonyls in marine aerosols from the South China Sea to the eastern Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6841-6860	6.8	9
139	Observation of wind shear during evening transition and an estimation of submicron aerosol concentrations in Beijing using a Doppler wind lidar. <i>Journal of Meteorological Research</i> , 2017 , 31, 350-362 ³	3.2	9
138	Development of a Regional Chemical Transport Model with Size-Resolved Aerosol Microphysics and Its Application on Aerosol Number Concentration Simulation over China. <i>Scientific Online Letters on the Atmosphere</i> , 2014 , 10, 83-87	2.1	9
137	Daytime Atmospheric Oxidation Capacity of Urban Beijing under Polluted Conditions during the 2008 Beijing Olympic Games and the Impact of Aerosols. <i>Scientific Online Letters on the Atmosphere</i> , 2011 , 7, 73-76	2.1	9
136	Model Inter-Comparison Study for Asia (MICS-Asia) phase III: multimodel comparison of reactive nitrogen deposition over China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10587-10610	6.8	9
135	Effects of Regional Transport on Haze in the North China Plain: Transport of Precursors or Secondary Inorganic Aerosols. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087461	4.9	9
134	Numerical study of COVID-19 spatial-temporal spreading in London. <i>Physics of Fluids</i> , 2021 , 33, 046605	4.4	9
133	Impact of biomass burning on soil microorganisms and plant metabolites: A view from molecular distributions of atmospheric hydroxy fatty acids over Mount Tai. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2684-2699	3.7	9
132	Vertical Characterization of Aerosol Particle Composition in Beijing, China: Insights From 3-Month Measurements With Two Aerosol Mass Spectrometers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,016	4.4	9
131	Evaluation of NU-WRF model performance on air quality simulation under various model resolutions – an investigation within the framework of MICS-Asia Phase III. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2319-2339	6.8	8
130	IAP-AACM v1.0: a global to regional evaluation of the atmospheric chemistry model in CAS-ESM. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8269-8296	6.8	8

129	Exploring Possible Missing Sinks of Nitrate and Its Precursors in Current Air Quality Models: A Case Simulation in the Pearl River Delta, China, Using an Observation-Based Box Model. <i>Scientific Online Letters on the Atmosphere</i> , 2015 , 11, 124-128	2.1	8
128	Simulating dry deposition fluxes of PM ₁₀ and particulate inorganic nitrogen over the eastern China seas during a severe Asian dust event using WRF-Chem model. <i>Journal of Ocean University of China</i> , 2012 , 11, 301-314	1	8
127	Impact of aerosol on sea surface temperature over the subtropical Atlantic Ocean: A potential trigger factor of the NAO phase conversion?. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	8
126	Numerical Regional Air Quality Forecast Tests over the Mainland of China. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1781-1786	2.6	8
125	Dust Heterogeneous Reactions during Long-Range Transport of a Severe Dust Storm in May 2017 over East Asia. <i>Atmosphere</i> , 2019 , 10, 680	2.7	8
124	Air quality and climate change, Topic 3 of the Model Inter-Comparison Study for Asia Phase III (MICS-Asia III) [Part II]: aerosol radiative effects and aerosol feedbacks. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1147-1161	6.8	7
123	Seasonal variabilities in chemical compounds and acidity of aerosol particles at urban site in the west Pacific. <i>Environmental Pollution</i> , 2018 , 237, 868-877	9.3	7
122	Ambient TSP concentration and dustfall variation in Urumqi, China. <i>Journal of Arid Land</i> , 2014 , 6, 668-672	2.2	7
121	Influence of Beijing outflow on Volatile Organic Compounds (VOC) observed at a mountain site in North China Plain. <i>Atmospheric Research</i> , 2012 , 111, 46-57	5.4	7
120	Uplifting of Asian Continental Pollution Plumes from the Boundary Layer to the Free Atmosphere over the Northwestern Pacific Rim in Spring. <i>Scientific Online Letters on the Atmosphere</i> , 2013 , 9, 40-44	2.1	7
119	Comment on "Atmospheric particulate matter pollution during the 2008 Beijing Olympics". <i>Environmental Science & Technology</i> , 2009 , 43, 7588; author reply 7590-1	10.3	7
118	High daytime abundance of primary organic aerosols over Mt. Emei, Southwest China in summer. <i>Science of the Total Environment</i> , 2020 , 703, 134475	10.2	7
117	Organic aerosol volatility and viscosity in the North China Plain: contrast between summer and winter. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5463-5476	6.8	7
116	A nonnegativity preserved efficient algorithm for atmospheric chemical kinetic equations. <i>Applied Mathematics and Computation</i> , 2015 , 271, 519-531	2.7	6
115	Affinity zone identification approach for joint control of PM pollution over China. <i>Environmental Pollution</i> , 2020 , 265, 115086	9.3	6
114	A nonnegativity preserved efficient chemical solver applied to the air pollution forecast. <i>Applied Mathematics and Computation</i> , 2017 , 314, 44-57	2.7	6
113	GNAQPMS v1.1: accelerating the Global Nested Air Quality Prediction Modeling System (GNAQPMS) on Intel Xeon Phi processors. <i>Geoscientific Model Development</i> , 2017 , 10, 2891-2904	6.3	6
112	Size-resolved mixing state and optical properties of black carbon at an urban site in Beijing. <i>Science of the Total Environment</i> , 2020 , 749, 141523	10.2	6

111	Transport Patterns, Size Distributions, and Depolarization Characteristics of Dust Particles in East Asia in Spring 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031752	4.4	6
110	High Molecular Diversity of Organic Nitrogen in Urban Snow in North China. <i>Environmental Science & Technology</i> , 2021 , 55, 4344-4356	10.3	6
109	Sources of PM and its responses to emission reduction strategies in the Central Plains Economic Region in China: Implications for the impacts of COVID-19. <i>Environmental Pollution</i> , 2021 , 288, 117783	9.3	6
108	Size Distribution and Depolarization Properties of Aerosol Particles over the Northwest Pacific and Arctic Ocean from Shipborne Measurements during an R/V Cruise. <i>Environmental Science & Technology</i> , 2019 , 53, 7984-7995	10.3	5
107	Correction to Microscopic Evaluation of Trace Metals in Cloud Droplets in an Acid Precipitation Region. <i>Environmental Science & Technology</i> , 2013 , 47, 6067-6067	10.3	5
106	Model-Integration of Anthropogenic Heat for Improving Air Quality Forecasts over the Beijing Megacity. <i>Aerosol and Air Quality Research</i> , 2018 , 18, 790-802	4.6	5
105	Vertical distribution of particle-phase dicarboxylic acids, oxoacids and <i></i>-dicarbonyls in the urban boundary layer based on the 325 m tower in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10331-10350	6.8	5
104	Molecular composition and sources of water-soluble organic aerosol in summer in Beijing. <i>Chemosphere</i> , 2020 , 255, 126850	8.4	5
103	Modeling Ozone Source Apportionment and Performing Sensitivity Analysis in Summer on the North China Plain. <i>Atmosphere</i> , 2020 , 11, 992	2.7	5
102	Vertical Distributions of Primary and Secondary Aerosols in Urban Boundary Layer: Insights into Sources, Chemistry, and Interaction with Meteorology. <i>Environmental Science & Technology</i> , 2021 , 55, 4542-4552	10.3	5
101	Real-time characterization of aerosol particle composition, sources and influences of increased ventilation and humidity in an office. <i>Indoor Air</i> , 2021 , 31, 1364-1376	5.4	5
100	GlobalRegional nested simulation of particle number concentration by combing microphysical processes with an evolving organic aerosol module. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9343-9366	6.8	5
99	Effective densities of soot particles and their relationships with the mixing state at an urban site in the Beijing megacity in the winter of 2018. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14791-14804	6.8	5
98	Source apportionment of PM2.5 in the most polluted Central Plains Economic Region in China: Implications for joint prevention and control of atmospheric pollution. <i>Journal of Cleaner Production</i> , 2021 , 283, 124557	10.3	5
97	Increase of nitrooxy organosulfates in firework-related urban aerosols during Chinese New Year's Eve. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11453-11465	6.8	5
96	High-spatiotemporal-resolution inverse estimation of CO and NOx emission reductions during emission control periods with a modified ensemble Kalman filter. <i>Atmospheric Environment</i> , 2020 , 236, 117631	5.3	4
95	Identify the contribution of elevated industrial plume to ground air quality by optical and machine learning methods. <i>Environmental Research Communications</i> , 2020 , 2, 021005	3.1	4
94	Ozone Production Efficiency in Highly Polluted Environments. <i>Current Pollution Reports</i> , 2018 , 4, 198-207.6	7.6	4

93	Chemical and Meteorological Feedbacks in the Formation of Intense Haze Events 2017 , 437-452		4
92	Impact of Pollutant Transport on the Air Quality of Shanghai in 2007. <i>Scientific Online Letters on the Atmosphere</i> , 2011 , 7, 85-88	2.1	4
91	Dust storm ensemble forecast experiments in East Asia. <i>Advances in Atmospheric Sciences</i> , 2009 , 26, 1053-1070	4.0	4
90	Measurement report: Long-term changes in black carbon and aerosol optical properties from 2012 to 2020 in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 561-575	6.8	4
89	A Numerical Study on the Nocturnal Frontogenesis of the Sea-breeze Front. <i>Journal of the Meteorological Society of Japan</i> , 2004 , 82, 817-823	2.8	4
88	Gravity-Current-Driven Transport of Haze from the North China Plain to Northeast China in Winter 2010-Part 2: Model Simulation with Tagged Tracers. <i>Scientific Online Letters on the Atmosphere</i> , 2013 , 9, 60-64	2.1	4
87	Observed and Modeled Mass Concentrations of Organic Aerosols and PM _{2.5} at Three Remote Sites around the East China Sea: Roles of Chemical Aging. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 3091-3105	4.6	4
86	Chemical Characteristics and Potential Sources of PM _{2.5} in Shahe City during Severe Haze Pollution Episodes in the Winter. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 2741-2753	4.6	4
85	Boundary Layer Ozone Transport from Eastern China to Southern Japan: Pollution Episodes Observed during Monsoon Onset in 2004. <i>Asian Journal of Atmospheric Environment</i> , 2015 , 9, 48-56	1.3	4
84	Retrieval of surface PM _{2.5} mass concentrations over North China using visibility measurements and GEOS-Chem simulations. <i>Atmospheric Environment</i> , 2020 , 222, 117121	5.3	4
83	Temporally resolved sectoral and regional contributions to air pollution in Beijing: informing short-term emission controls. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4471-4485	6.8	4
82	Inter-annual variations of wet deposition in Beijing from 2014-2017: implications of below-cloud scavenging of inorganic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9441-9454	6.8	4
81	Chemical formation and source apportionment of PM at an urban site at the southern foot of the Taihang mountains. <i>Journal of Environmental Sciences</i> , 2021 , 103, 20-32	6.4	4
80	Molecular characterization of size-segregated organic aerosols in the urban boundary layer in wintertime Beijing by FT-ICR MS. <i>Faraday Discussions</i> , 2021 , 226, 457-478	3.6	4
79	Characteristics of regional transport during two-year wintertime haze episodes in North China megacities. <i>Atmospheric Research</i> , 2021 , 257, 105582	5.4	4
78	Why models perform differently on particulate matter over East Asia? A multi-model intercomparison study for MICS-Asia III 2019 ,		3
77	Model evaluation and inter-comparison of surface-level ozone and relevant species in East Asia in the context of MICS-Asia phase III Part I: overview 2019 ,		3
76	Water-soluble low molecular weight organics in cloud water at Mt. Tai Mo Shan, Hong Kong. <i>Science of the Total Environment</i> , 2019 , 697, 134095	10.2	3

75	Compound-Specific Stable Carbon Isotope Ratios of Terrestrial Biomarkers in Urban Aerosols from Beijing, China. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1896-1904	3.2	3
74	MP CBM-Z V1.0: design for a new Carbon Bond Mechanism Z (CBM-Z) gas-phase chemical mechanism architecture for next-generation processors. <i>Geoscientific Model Development</i> , 2019 , 12, 749-764	6.3	3
73	Influence of the morphological change in natural Asian dust during transport: A modeling study for a typical dust event over northern China. <i>Science of the Total Environment</i> , 2020 , 739, 139791	10.2	3
72	Source forensics of n-alkanes and n-fatty acids in urban aerosols using compound specific radiocarbon/stable carbon isotopic composition. <i>Environmental Research Letters</i> , 2020 , 15, 074007	6.2	3
71	Validation of the Institute of Atmospheric Physics emergency response model with the meteorological towers measurements and SF6 diffusion and pool fire experiments. <i>Atmospheric Environment</i> , 2013 , 81, 60-67	5.3	3
70	A novel heterogeneous reaction for generating gaseous nitrous acid. <i>Science Bulletin</i> , 2007 , 52, 3056-3060		3
69	Long-Range Transport of Sulfur from Northeast Asia to Chengshantu, Shandong Peninsula: Measurement and Simulation. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 1793-1798	2.6	3
68	Numerical modeling of pollutant transport and chemistry during a high-ozone event in northern Taiwan. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 1189-1205	3.3	3
67	How do aerosols above the residual layer affect the planetary boundary layer height?. <i>Science of the Total Environment</i> , 2021 , 814, 151953	10.2	3
66	Model Study on the Transport and Mixing of Dust Aerosols and Pollutants during an Asian Dust Storm in March 2002. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007 , 18, 437	1.8	3
65	Discrepancies between MICS-Asia III simulation and observation for surface ozone in the marine atmosphere over the northwestern Pacific Asian Rim region. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15003-15014	6.8	3
64	Effects of the sea-land breeze on coastal ozone pollution in the Yangtze River Delta, China. <i>Science of the Total Environment</i> , 2021 , 807, 150306	10.2	3
63	Spatio-Temporal Variations of Atmospheric NH3 over East Asia by Comparison of Chemical Transport Model Results, Satellite Retrievals and Surface Observations. <i>Atmosphere</i> , 2020 , 11, 900	2.7	3
62	A comprehensive evaluation of planetary boundary layer height retrieval techniques using lidar data under different pollution scenarios. <i>Atmospheric Research</i> , 2021 , 253, 105483	5.4	3
61	Land-sea breeze circulation structure on the west coast of the Yellow Sea, China. <i>Atmospheric and Oceanic Science Letters</i> , 2021 , 14, 100003	1.4	3
60	Size-resolved characterization of organic aerosol in the North China Plain: new insights from high resolution spectral analysis. <i>Environmental Science Atmospheres</i> , 2021 , 1, 346-358		3
59	Nonlinear response of SIA to emission changes and chemical processes over eastern and central China during a heavy haze month. <i>Science of the Total Environment</i> , 2021 , 788, 147747	10.2	3
58	Mixing characteristics of refractory black carbon aerosols determined by a tandem CPMA-SP2 system at an urban site in Beijing 2019 ,		2

57	China's Clean Air Action has suppressed unfavorable influences of climate on wintertime PM _{2.5} concentrations in Beijing since 2002 2019 ,		2
56	Source tagging modeling study of regional contributions to acid rain in summer over Liaoning Province, Northeastern China. <i>Environmental Pollution</i> , 2018 , 235, 780-790	9.3	2
55	Real-time online measurements of the inorganic and organic composition of haze fine particles with an Aerosol Chemical Speciation Monitor (ACSM). <i>Chinese Science Bulletin</i> , 2013 , 58, 3818-3828	2.9	2
54	Nitrate and secondary organic aerosol dominated particle light extinction in Beijing due to clean air action. <i>Atmospheric Environment</i> , 2022 , 269, 118833	5.3	2
53	MICS-Asia III: Multi-model comparison of reactive Nitrogen deposition over China 2020 ,		2
52	Increasing impacts of the relative contributions of regional transport on air pollution in Beijing: Observational evidence. <i>Environmental Pollution</i> , 2022 , 292, 118407	9.3	2
51	Improving PM Forecasts in China Using an Initial Error Transport Model. <i>Environmental Science & Technology</i> , 2020 , 54, 10493-10501	10.3	2
50	Measurement report: Diurnal and temporal variations of sugar compounds in suburban aerosols from the northern vicinity of Beijing, China [an influence of biogenic and anthropogenic sources. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4959-4978	6.8	2
49	Quantification of different processes in the rapid formation of a regional haze episode in north China using an integrated analysis tool coupling source apportionment with process analysis. <i>Atmospheric Pollution Research</i> , 2021 , 12, 159-172	4.5	2
48	Using a coupled LES aerosol-radiation model to investigate the importance of aerosol-boundary layer feedback in a Beijing haze episode. <i>Faraday Discussions</i> , 2021 , 226, 173-190	3.6	2
47	Impact of water vapor content on visibility: Fog-haze conversion and its implications to pollution control. <i>Atmospheric Research</i> , 2021 , 256, 105565	5.4	2
46	Insights into vertical differences of particle number size distributions in winter in Beijing, China. <i>Science of the Total Environment</i> , 2022 , 802, 149695	10.2	2
45	Evaluation and uncertainty investigation of the NO ₂ , CO and NH ₃ modeling over China under the framework of MICS-Asia III 2019 ,		1
44	MICS-Asia III: Multi-model comparison and evaluation of aerosol over East Asia 2019 ,		1
43	MICS-Asia III: Overview of model inter-comparison and evaluation of acid deposition over Asia 2019 ,		1
42	Source apportionment of organic aerosol from two-year highly time-resolved measurements by an aerosol chemical speciation monitor in Beijing, China 2018 ,		1
41	Seasonal variation of the temperature profile and its characteristics within urban roughness sublayer. <i>Science Bulletin</i> , 2009 , 54, 468-473	10.6	1
40	Foreshowing of the Western Pacific tropical cyclone track to PM ₁₀ air pollution episode in the Beijing area. <i>Science Bulletin</i> , 2009 , 54, 830-835	10.6	1

39	A Model Analysis of Transport of Sulfur Oxides in China and Outflow to the Sea. <i>Water, Air, and Soil Pollution</i> , 2001 , 130, 355-360	2.6	1
38	Unexpected Increases of Severe Haze Pollution During the Post COVID-19 Period: Effects of Emissions, Meteorology, and Secondary Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022 , 127,	4.4	1
37	Mass and number concentration distribution of marine aerosol in the Western Pacific and the influence of continental transport.. <i>Environmental Pollution</i> , 2022 , 298, 118827	9.3	1
36	Synergistic effect of reductions in multiple gaseous precursors on secondary inorganic aerosols in winter under a meteorology-based redistributed daily NH emission inventory within the Beijing-Tianjin-Hebei region, China.. <i>Science of the Total Environment</i> , 2022 , 821, 153383	10.2	1
35	High-resolution modeling of the distribution of surface air pollutants and their intercontinental transport by a global tropospheric atmospheric chemistry sourceReceptor model (GNAQPMS-SM). <i>Geoscientific Model Development</i> , 2021 , 14, 7573-7604	6.3	1
34	Assessment of the pollution levels of potential toxic elements in urban vegetable gardens in southwest China. <i>Scientific Reports</i> , 2021 , 11, 22824	4.9	1
33	Mixing state of refractory black carbon in fog and haze at rural sites in winter on the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17631-17648	6.8	1
32	Insights into seasonal variation of wet deposition over southeast Asia via precipitation adjustment from the findings of MICS-Asia III. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8709-8734	6.8	1
31	Investigating the importance of sub-grid particle formation in point source plumes over eastern China using IAP-AACM v1.0 with a sub-grid parameterization. <i>Geoscientific Model Development</i> , 2021 , 14, 4411-4428	6.3	1
30	Development of a coupled aerosol lidar data quality assurance and control scheme with Monte Carlo analysis and bilateral filtering. <i>Science of the Total Environment</i> , 2020 , 728, 138844	10.2	1
29	Establishment and Operational Application of China National Air Quality Forecast and Early Warning Device 2021 , 359-378		1
28	Modeling of aerosol property evolution during winter haze episodes over a megacity cluster in northern China: Roles of regional transport and heterogeneous reactions 2018 ,		1
27	Measurement report: Vertical distribution of biogenic and anthropogenic secondary organic aerosols in the urban boundary layer over Beijing during late summer. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12949-12963	6.8	1
26	Reductions in crop yields across China from elevated ozone. <i>Environmental Pollution</i> , 2022 , 292, 118218	9.3	1
25	Mixing characteristics of black carbon aerosols in a coastal city using the CPMA-SP2 system. <i>Atmospheric Research</i> , 2021 , 105867	5.4	1
24	A Comparison of the Different Stages of Dust Events over Beijing in March 2021: The Effects of the Vertical Structure on Near-Surface Particle Concentration. <i>Remote Sensing</i> , 2021 , 13, 3580	5	1
23	Molecular characterization and spatial distribution of dicarboxylic acids and related compounds in fresh snow in China. <i>Environmental Pollution</i> , 2021 , 291, 118114	9.3	1
22	Brown carbon from biomass burning imposes strong circum-Arctic warming. <i>One Earth</i> , 2022 , 5, 293-304	8.1	1

21	An aerosol vertical data assimilation system (NAQPMS-PDAF v1.0): development and application. <i>Geoscientific Model Development</i> , 2022 , 15, 3555-3585	6.3	1
20	An intercomparison of ozone taken from the Copernicus atmosphere monitoring service and the second Modern-Era retrospective analysis for research and applications over China during 2018 and 2019.. <i>Journal of Environmental Sciences</i> , 2022 , 114, 514-525	6.4	0
19	Latitudinal difference in the molecular distributions of lipid compounds in the forest atmosphere in China. <i>Environmental Pollution</i> , 2021 , 294, 118578	9.3	0
18	The dynamic multi-box algorithm of atmospheric environmental capacity. <i>Science of the Total Environment</i> , 2022 , 806, 150951	10.2	0
17	Evaluation and Bias Correction of the Secondary Inorganic Aerosol Modeling over North China Plain in Autumn and Winter. <i>Atmosphere</i> , 2021 , 12, 578	2.7	0
16	Cross-boundary transport and source apportionment for PM in a typical industrial city in the Hebei Province, China: A modeling study.. <i>Journal of Environmental Sciences</i> , 2022 , 115, 465-473	6.4	0
15	Performance evaluation of photographic measurement in the machine-learning prediction of ground PM2.5 concentration. <i>Atmospheric Environment</i> , 2021 , 262, 118623	5.3	0
14	Increase in daytime ozone exposure due to nighttime accumulation in a typical city in eastern China during 2014-2020. <i>Atmospheric Pollution Research</i> , 2022 , 13, 101387	4.5	0
13	Transport Patterns and Potential Sources of Atmospheric Pollution during the XXIV Olympic Winter Games Period.. <i>Advances in Atmospheric Sciences</i> , 2022 , 1-15	2.9	0
12	Quantitative attribution of wintertime haze in coastal east China to local emission and regional intrusion under a stagnant internal boundary layer. <i>Atmospheric Environment</i> , 2022 , 276, 119006	5.3	0
11	Investigating the climatology of North China's urban inland lake based on six years of observations.. <i>Science of the Total Environment</i> , 2022 , 154120	10.2	0
10	Submicron-scale aerosol above the city canopy in Beijing in spring based on in-situ meteorological tower measurements. <i>Atmospheric Research</i> , 2022 , 271, 106128	5.4	0
9	Long-Term (2017-2020) Aerosol Optical Depth Observations in Hohhot City in Mongolian Plateau and the Impacts from Different Types of Aerosol. <i>Atmosphere</i> , 2022 , 13, 737	2.7	0
8	Meteorological and chemical causes of heavy pollution in winter in Hohhot, Inner Mongolia Plateau. <i>Atmospheric Research</i> , 2022 , 106243	5.4	0
7	Machine learning elucidates the impact of short-term emission changes on air pollution in Beijing. <i>Atmospheric Environment</i> , 2022 , 283, 119192	5.3	0
6	Measurement report: Optical properties and sources of water-soluble brown carbon in Tianjin, North China Insights from organic molecular compositions. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6449-6470	6.8	0
5	Taiwan Yushan snowfall activity and its association with atmospheric circulation from 1979 to 2009. <i>Advances in Atmospheric Sciences</i> , 2011 , 28, 1423-1432	2.9	
4	Modeling of Muddy Rain Due to the Long-Range Transport of Yellow-Sand in East Asia 2004 , 277-285		

- | | | |
|---|---|------|
| 3 | Impact of sub-grid particle formation in sulfur-rich plumes on particle mass and number concentrations over China. <i>Atmospheric Environment</i> , 2022 , 268, 118711 | 5.3 |
| 2 | An integrated air quality modeling system coupling regional-urban and street models in Beijing. <i>Urban Climate</i> , 2022 , 43, 101143 | 6.8 |
| 1 | Dwindling aromatic compounds in fine aerosols from chunk coal to honeycomb briquette combustion. <i>Science of the Total Environment</i> , 2022 , 838, 155971 | 10.2 |