

# Xiaole

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9335922/publications.pdf>

Version: 2024-02-01

98  
papers

3,883  
citations

186265

28  
h-index

138484

58  
g-index

149  
all docs

149  
docs citations

149  
times ranked

4356  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-boundary transport and source apportionment for PM <sub>2.5</sub> in a typical industrial city in the Hebei Province, China: A modeling study. <i>Journal of Environmental Sciences</i> , 2022, 115, 465-473.	6.1	3
2	Mixing characteristics of black carbon aerosols in a coastal city using the CPMA-SP2 system. <i>Atmospheric Research</i> , 2022, 265, 105867.	4.1	4
3	The dynamic multi-box algorithm of atmospheric environmental capacity. <i>Science of the Total Environment</i> , 2022, 806, 150951.	8.0	8
4	Increasing impacts of the relative contributions of regional transport on air pollution in Beijing: Observational evidence. <i>Environmental Pollution</i> , 2022, 292, 118407.	7.5	10
5	Synergistic effect of reductions in multiple gaseous precursors on secondary inorganic aerosols in winter under a meteorology-based redistributed daily NH <sub>3</sub> emission inventory within the Beijing-Tianjin-Hebei region, China. <i>Science of the Total Environment</i> , 2022, 821, 153383.	8.0	10
6	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.	6.1	2
7	Brown carbon from biomass burning imposes strong circum-Arctic warming. <i>One Earth</i> , 2022, 5, 293-304.	6.8	23
8	Recent analytical tools to mitigate carbon-based pollution: New insights by using wavelet coherence for a sustainable environment. <i>Environmental Research</i> , 2022, 212, 113074.	7.5	18
9	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.	3.8	6
10	Transport Patterns and Potential Sources of Atmospheric Pollution during the XXIV Olympic Winter Games Period. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1608-1622.	4.3	6
11	Primary Emissions and Secondary Aerosol Processing During Wintertime in Rural Area of North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	3
12	An integrated air quality modeling system coupling regional-urban and street models in Beijing. <i>Urban Climate</i> , 2022, 43, 101143.	5.7	4
13	The importance of hydroxymethanesulfonate (HMS) in winter haze episodes in North China Plain. <i>Environmental Research</i> , 2022, 211, 113093.	7.5	7
14	Biological and Nonbiological Sources of Fluorescent Aerosol Particles in the Urban Atmosphere. <i>Environmental Science &amp; Technology</i> , 2022, 56, 7588-7597.	10.0	6
15	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.	2.3	4
16	Dwindling aromatic compounds in fine aerosols from chunk coal to honeycomb briquette combustion. <i>Science of the Total Environment</i> , 2022, 838, 155971.	8.0	1
17	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.	4.9	25
18	The chemical composition and mixing state of BC-containing particles and the implications on light absorption enhancement. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7619-7630.	4.9	10

#	ARTICLE	IF	CITATIONS
19	Tracer-based characterization of fine carbonaceous aerosol in Beijing during a strict emission control period. <i>Science of the Total Environment</i> , 2022, 841, 156638.	8.0	3
20	Chemical formation and source apportionment of PM <sub>2.5</sub> at an urban site at the southern foot of the Taihang mountains. <i>Journal of Environmental Sciences</i> , 2021, 103, 20-32.	6.1	10
21	Source apportionment of PM <sub>2.5</sub> 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.	9.3	12
22	High Molecular Diversity of Organic Nitrogen in Urban Snow in North China. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4344-4356.	10.0	32
23	Direct measurements of black carbon fluxes in central Beijing using the eddy covariance method. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 147-162.	4.9	6
24	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.	2.4	8
25	Trans-Regional Transport of Haze Particles From the North China Plain to Yangtze River Delta During Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033778.	3.3	22
26	Evaluation and Bias Correction of the Secondary Inorganic Aerosol Modeling over North China Plain in Autumn and Winter. <i>Atmosphere</i> , 2021, 12, 578.	2.3	4
27	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.	8.0	33
28	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.	4.9	22
29	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.	4.9	9
30	Exploring dust heterogeneous chemistry over China: Insights from field observation and GEOS-Chem simulation. <i>Science of the Total Environment</i> , 2021, 798, 149307.	8.0	13
31	Model Evaluation and Uncertainty Analysis of PM <sub>2.5</sub> Components over Pearl River Delta Region Using Monte Carlo Simulations. <i>Aerosol and Air Quality Research</i> , 2021, 21, 200075.	2.1	4
32	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.	4.9	12
33	High-resolution modeling of the distribution of surface air pollutants and their intercontinental transport by a global tropospheric atmospheric chemistry source–receptor model (GNAQPMS-SM). <i>Geoscientific Model Development</i> , 2021, 14, 7573-7604.	3.6	5
34	Impact of Arctic amplification on declining spring dust events in East Asia. <i>Climate Dynamics</i> , 2020, 54, 1913-1935.	3.8	39
35	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.	8.0	15
36	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.	3.3	13

#	ARTICLE	IF	CITATIONS
37	Deep Learning for Air Quality Forecasts: a Review. <i>Current Pollution Reports</i> , 2020, 6, 399-409.	6.6	53
38	The role of biomass burning states in light absorption enhancement of carbonaceous aerosols. <i>Scientific Reports</i> , 2020, 10, 12829.	3.3	4
39	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.	8.0	8
40	Mixing characteristics of refractory black carbon aerosols at an urban site in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5771-5785.	4.9	37
41	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.	4.9	36
42	Molecular and spatial distributions of dicarboxylic acids, oxocarboxylic acids, and $\alpha,\beta$ -dicarbonyls in marine aerosols from the South China Sea to the eastern Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6841-6860.	4.9	17
43	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.	3.3	30
44	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.	4.9	23
45	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.	4.9	22
46	Regional variability in black carbon and carbon monoxide ratio from long-term observations over East Asia: assessment of representativeness for black carbon (BC) and carbon monoxide (CO) emission inventories. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 83-98.	4.9	20
47	Chemical Characteristics and Potential Sources of PM <sub>2.5</sub> in Shahe City during Severe Haze Pollution Episodes in the Winter. <i>Aerosol and Air Quality Research</i> , 2020, 20, 2741-2753.	2.1	10
48	Investigation of the wet removal rate of black carbon in East Asia: validation of a below- and in-cloud wet removal scheme in FLEXible PARTicle (FLEXPART) model v10.4. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13655-13670.	4.9	13
49	Characterization of carbonaceous aerosols in Asian outflow in the spring of 2015: Importance of non-fossil fuel sources. <i>Atmospheric Environment</i> , 2019, 214, 116858.	4.1	10
50	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.	2.6	44
51	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.	4.9	22
52	Size Distribution and Depolarization Properties of Aerosol Particles over the Northwest Pacific and Arctic Ocean from Shipborne Measurements during an R/V <i>Xuelong</i> Cruise. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7984-7995.	10.0	6
53	Ozone and carbon monoxide observations over open oceans on R/V <i>Mirai</i> from 67°S to 75°N during 2012 to 2017: testing global chemical reanalysis in terms of Arctic processes, low ozone levels at low latitudes, and pollution transport. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7233-7254.	4.9	19
54	Diurnal haze variations over the North China plain using measurements from Himawari-8/AHI. <i>Atmospheric Environment</i> , 2019, 210, 100-109.	4.1	19

#	ARTICLE	IF	CITATIONS
55	Dust Heterogeneous Reactions during Long-Range Transport of a Severe Dust Storm in May 2017 over East Asia. <i>Atmosphere</i> , 2019, 10, 680.	2.3	11
56	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.	4.9	13
57	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.	4.9	28
58	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.	7.5	8
59	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.	7.5	36
60	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.	4.9	17
61	The organic molecular composition, diurnal variation, and stable carbon isotope ratios of PM <sub>2.5</sub> in Beijing during the 2014 APEC summit. <i>Environmental Pollution</i> , 2018, 243, 919-928.	7.5	17
62	East Asian dust storm in May 2017: observations, modelling, and its influence on the Asia-Pacific region. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8353-8371.	4.9	61
63	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.	4.1	37
64	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.	4.1	60
65	Real-time observational evidence of changing Asian dust morphology with the mixing of heavy anthropogenic pollution. <i>Scientific Reports</i> , 2017, 7, 335.	3.3	53
66	Optical properties of mixed aerosol layers over Japan derived with multi-wavelength Mie-Raman lidar system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 188, 20-27.	2.3	19
67	Inverse Modeling of Asian Dust Emissions with POPC Observations: A TEMM Dust Sand Storm 2014 Case Study. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 31-35.	1.4	7
68	Dust Acid Uptake Analysis during Long-Lasting Dust and Pollution Episodes over East Asia Based on Synergetic Observation and Chemical Transport Model. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 109-113.	1.4	4
69	Seasonal variation of fine- and coarse-mode nitrates and related aerosols over East Asia: synergetic observations and chemical transport model analysis. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14181-14197.	4.9	23
70	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.	4.9	40
71	Simultaneous Dust and Pollutant Transport over East Asia: The Tripartite Environment Ministers Meeting March 2014 Case Study. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 47-52.	1.4	12
72	Importance of Long-Range Nitrate Transport Based on Long-Term Observation and Modeling of Dust and Pollutants over East Asia. <i>Aerosol and Air Quality Research</i> , 2017, 17, 3052-3064.	2.1	30

#	ARTICLE	IF	CITATIONS
73	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, 3065-3078.	2.1	23
74	Observed and Modeled Mass Concentrations of Organic Aerosols and PM <sub>2.5</sub> at Three Remote Sites around the East China Sea: Roles of Chemical Aging. <i>Aerosol and Air Quality Research</i> , 2017, 17, 3091-3105.	2.1	6
75	Diagnosis of Photochemical Ozone Production Rates and Limiting Factors in Continental Outflow Air Masses Reaching Fukue Island, Japan: Ozone-Control Implications. <i>Aerosol and Air Quality Research</i> , 2016, 16, 430-441.	2.1	12
76	“APEC Blue”: Secondary Aerosol Reductions from Emission Controls in Beijing. <i>Scientific Reports</i> , 2016, 6, 20668.	3.3	155
77	Shipborne observations of atmospheric black carbon aerosol particles over the Arctic Ocean, Bering Sea, and North Pacific Ocean during September 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1914-1921.	3.3	23
78	Long-term observations of black carbon mass concentrations at Fukue Island, western Japan, during 2009–2015: constraining wet removal rates and emission strengths from East Asia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10689-10705.	4.9	60
79	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.	4.9	21
80	Importance of coarse-mode nitrate produced via sea salt as atmospheric input to East Asian oceans. <i>Geophysical Research Letters</i> , 2016, 43, 5483-5491.	4.0	31
81	Intercomparison between a single particle soot photometer and evolved gas analysis in an industrial area in Japan: Implications for the consistency of soot aerosol mass concentration measurements. <i>Atmospheric Environment</i> , 2016, 127, 14-21.	4.1	28
82	Selective conversion of syngas to light olefins. <i>Science</i> , 2016, 351, 1065-1068.	12.6	1,063
83	Molecular markers of biomass burning, fungal spores and biogenic SOA in the Taklimakan desert aerosols. <i>Atmospheric Environment</i> , 2016, 130, 64-73.	4.1	57
84	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.	4.0	40
85	Analysis of the mixing state of airborne particles using a tandem combination of laser-induced fluorescence and incandescence techniques. <i>Journal of Aerosol Science</i> , 2015, 87, 102-110.	3.8	4
86	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.	3.3	24
87	Examining the major contributors of ozone pollution in a rural area of the Yangtze River Delta region during harvest season. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6101-6111.	4.9	35
88	Long-term real-time measurements of aerosol particle composition in Beijing, China: seasonal variations, meteorological effects, and source analysis. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10149-10165.	4.9	324
89	Source region attribution of PM <sub>2.5</sub> mass concentrations over Japan. <i>Geochemical Journal</i> , 2015, 49, 185-194.	1.0	28
90	Sensitivity analysis of source regions to PM <sub>2.5</sub> concentration at Fukue Island, Japan. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 445-452.	1.9	41

#	ARTICLE	IF	CITATIONS
91	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.	3.3	43
92	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.	1.4	7
93	Quantitative bias estimates for tropospheric NO <sub>2</sub> columns retrieved from SCIAMACHY, OMI, and GOME-2 using a common standard for East Asia. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2403-2411.	3.1	105
94	Degradation of Veterinary Antibiotics by Ozone in Swine Wastewater Pretreated with Sequencing Batch Reactor. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 272-277.	1.4	39
95	Characterization of summer organic and inorganic aerosols in Beijing, China with an Aerosol Chemical Speciation Monitor. <i>Atmospheric Environment</i> , 2012, 51, 250-259.	4.1	296
96	Impacts of pollution and dust aerosols on the atmospheric optical properties over a polluted rural area near Beijing city. <i>Atmospheric Research</i> , 2011, 101, 835-843.	4.1	29
97	The effects of a solar eclipse on photo-oxidants in different areas of China. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8075-8085.	4.9	5
98	Hygroscopic growth of aerosol scattering coefficient: A comparative analysis between urban and suburban sites at winter in Beijing. <i>Particuology</i> , 2009, 7, 52-60.	3.6	95