Xiaole

List of Publications by Year
in descending order

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	Selective conversion of syngas to light olefins. Science, 2016, 351, 1065-1068.	12.6	1,063
2	Long-term real-time measurements of aerosol particle composition in Beijing, China: seasonal variations, meteorological effects, and source analysis. Atmospheric Chemistry and Physics, 2015, 15, 10149-10165.	4.9	324
3	Characterization of summer organic and inorganic aerosols in Beijing, China with an Aerosol Chemical Speciation Monitor. Atmospheric Environment, 2012, 51, 250-259.	4.1	296
4	â€œAPEC Blueâ€: Secondary Aerosol Reductions from Emission Controls in Beijing. Scientific Reports, 2016, 6, 20668.	3.3	155
5	Quantitative bias estimates for tropospheric NO₂ columns retrieved from SCIAMACHY, OMI, and GOME-2 using a common standard for East Asia. Atmospheric Measurement Techniques, 2012, 5, 2403-2411.	3.1	105
6	Hygroscopic growth of aerosol scattering coefficient: A comparative analysis between urban and suburban sites at winter in Beijing. Particuology, 2009, 7, 52-60.	3.6	95
7	East Asian dust storm in May 2017: observations, modelling, and its influence on the Asia-Pacific region. Atmospheric Chemistry and Physics, 2018, 18, 8353-8371.	4.9	61
8	Long-term observations of black carbon mass concentrations at Fukue Island, western Japan, during 2009â€“2015: constraining wet removal rates and emission strengths from East Asia. Atmospheric Chemistry and Physics, 2016, 16, 10689-10705.	4.9	60
9	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.	4.1	60
10	Molecular markers of biomass burning, fungal spores and biogenic SOA in the Taklimakan desert aerosols. Atmospheric Environment, 2016, 130, 64-73.	4.1	57
11	Real-time observational evidence of changing Asian dust morphology with the mixing of heavy anthropogenic pollution. Scientific Reports, 2017, 7, 335.	3.3	53
12	Deep Learning for Air Quality Forecasts: a Review. Current Pollution Reports, 2020, 6, 399-409.	6.6	53
13	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.	2.6	44
14	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.	3.3	43
15	Sensitivity analysis of source regions to PM2.5 concentration at Fukue Island, Japan. Journal of the Air and Waste Management Association, 2014, 64, 445-452.	1.9	41
16	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.	4.0	40
17	Emission characteristics of refractory black carbon aerosols from fresh biomass burning: a perspective from laboratory experiments. Atmospheric Chemistry and Physics, 2017, 17, 13001-13016.	4.9	40
18	Degradation of Veterinary Antibiotics by Ozone in Swine Wastewater Pretreated with Sequencing Batch Reactor. Journal of Environmental Engineering, ASCE, 2012, 138, 272-277.	1.4	39

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19	Impact of Arctic amplification on declining spring dust events in East Asia. Climate Dynamics, 2020, 54, 1913-1935.	3.8	39
20	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.	4.1	37
21	Mixing characteristics of refractory black carbon aerosols at an urban site in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 5771-5785.	4.9	37
22	Importance of mineral dust and anthropogenic pollutants mixing during a long-lasting high PM event over East Asia. Environmental Pollution, 2018, 234, 368-378.	7.5	36
23	Large contributions of biogenic and anthropogenic sources to fine organic aerosols in Tianjin, North China. Atmospheric Chemistry and Physics, 2020, 20, 117-137.	4.9	36
24	Examining the major contributors of ozone pollution in a rural area of the Yangtze River Delta region during harvest season. Atmospheric Chemistry and Physics, 2015, 15, 6101-6111.	4.9	35
25	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.	8.0	33
26	High Molecular Diversity of Organic Nitrogen in Urban Snow in North China. Environmental Science & Technology, 2021, 55, 4344-4356.	10.0	32
27	Importance of coarseâ€mode nitrate produced via sea salt as atmospheric input to East Asian oceans. Geophysical Research Letters, 2016, 43, 5483-5491.	4.0	31
28	Increase of High Molecular Weight Organosulfate With Intensifying Urban Air Pollution in the Megacity Beijing. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032200.	3.3	30
29	Importance of Long-Range Nitrate Transport Based on Long-Term Observation and Modeling of Dust and Pollutants over East Asia. Aerosol and Air Quality Research, 2017, 17, 3052-3064.	2.1	30
30	Impacts of pollution and dust aerosols on the atmospheric optical properties over a polluted rural area near Beijing city. Atmospheric Research, 2011, 101, 835-843.	4.1	29
31	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. Atmospheric Environment, 2016, 127, 14-21.	4.1	28
32	Multi-method determination of the below-cloud wet scavenging coefficients of aerosols in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 15569-15581.	4.9	28
33	Source region attribution of PM_{2.5} mass concentrations over Japan. Geochemical Journal, 2015, 49, 185-194.	1.0	28
34	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.	4.9	25
35	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.	3.3	24
36	Shipborne observations of atmospheric black carbon aerosol particles over the Arctic Ocean, Bering Sea, and North Pacific Ocean during September 2014. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1914-1921.	3.3	23

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37	Seasonal variation of fine- and coarse-mode nitrates and related aerosols over East Asia: synergetic observations and chemical transport model analysis. Atmospheric Chemistry and Physics, 2017, 17, 14181-14197.	4.9	23
38	Fine particle characterization in a coastal city in China: composition, sources, and impacts of industrial emissions. Atmospheric Chemistry and Physics, 2020, 20, 2877-2890.	4.9	23
39	Modeling the Long-Range Transport of Particulate Matters for January in East Asia using NAQPMS and CMAQ. Aerosol and Air Quality Research, 2017, 17, 3065-3078.	2.1	23
40	Brown carbon from biomass burning imposes strong circum-Arctic warming. One Earth, 2022, 5, 293-304.	6.8	23
41	Synergistic effect of water-soluble species and relative humidity on morphological changes in aerosol particles in the Beijing megacity during severe pollution episodes. Atmospheric Chemistry and Physics, 2019, 19, 219-232.	4.9	22
42	Molecular markers of biomass burning and primary biological aerosols in urban Beijing: size distribution and seasonal variation. Atmospheric Chemistry and Physics, 2020, 20, 3623-3644.	4.9	22
43	Transâ€Regional Transport of Haze Particles From the North China Plain to Yangtze River Delta During Winter. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033778.	3.3	22
44	Inter-annual variations of wet deposition in Beijing from 2014â€“2017: implications of below-cloud scavenging of inorganic aerosols. Atmospheric Chemistry and Physics, 2021, 21, 9441-9454.	4.9	22
45	Polarization properties of aerosol particles over western Japan: classification, seasonal variation, and implications for air quality. Atmospheric Chemistry and Physics, 2016, 16, 9863-9873.	4.9	21
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. Atmospheric Chemistry and Physics, 2020, 20, 83-98.	4.9	20
47	Optical properties of mixed aerosol layers over Japan derived with multi-wavelength Mieâ€“Raman lidar system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 188, 20-27.	2.3	19
48	Ozone and carbon monoxide observations over open oceans on R/VÂ<i>Mirai</i> from 67Â°â€‰S to 75Â°â€‰N during 2012 to 2017: testing global chemical reanalysis in terms of Arctic processes, low ozone levels at low latitudes, and pollution transport. Atmospheric Chemistry and Physics, 2019, 19, 7233-7254.	4.9	19
49	Diurnal haze variations over the North China plain using measurements from Himawari-8/AHI. Atmospheric Environment, 2019, 210, 100-109.	4.1	19
50	Recent analytical tools to mitigate carbon-based pollution: New insights by using wavelet coherence for a sustainable environment. Environmental Research, 2022, 212, 113074.	7.5	18
51	Variability of depolarization of aerosol particles in the megacity of Beijing: implications for the interaction between anthropogenic pollutants and mineral dust particles. Atmospheric Chemistry and Physics, 2018, 18, 18203-18217.	4.9	17
52	The organic molecular composition, diurnal variation, and stable carbon isotope ratios of PM2.5 in Beijing during the 2014 APEC summit. Environmental Pollution, 2018, 243, 919-928.	7.5	17
53	Molecular and spatial distributions of dicarboxylic acids, oxocarboxylic acids, and <i>Î±</i>-dicarbonyls in marine aerosols from the South China Sea to the eastern Indian Ocean. Atmospheric Chemistry and Physics, 2020, 20, 6841-6860.	4.9	17
54	Size-resolved mixing state and optical properties of black carbon at an urban site in Beijing. Science of the Total Environment, 2020, 749, 141523.	8.0	15

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55	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. Atmospheric Chemistry and Physics, 2019, 19, 14791-14804.	4.9	13
56	Transport Patterns, Size Distributions, and Depolarization Characteristics of Dust Particles in East Asia in Spring 2018. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031752.	3.3	13
57	Exploring dust heterogeneous chemistry over China: Insights from field observation and GEOS-Chem simulation. Science of the Total Environment, 2021, 798, 149307.	8.0	13
58	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. Atmospheric Chemistry and Physics, 2020, 20, 13655-13670.	4.9	13
59	Diagnosis of Photochemical Ozone Production Rates and Limiting Factors in Continental Outflow Air Masses Reaching Fukue Island, Japan: Ozone-Control Implications. Aerosol and Air Quality Research, 2016, 16, 430-441.	2.1	12
60	Simultaneous Dust and Pollutant Transport over East Asia: The Tripartite Environment Ministers Meeting March 2014 Case Study. Scientific Online Letters on the Atmosphere, 2017, 13, 47-52.	1.4	12
61	Source apportionment of PM2.5 in the most polluted Central Plains Economic Region in China: Implications for joint prevention and control of atmospheric pollution. Journal of Cleaner Production, 2021, 283, 124557.	9.3	12
62	Mixing state of refractory black carbon in fog and haze at rural sites in winter on the North China Plain. Atmospheric Chemistry and Physics, 2021, 21, 17631-17648.	4.9	12
63	Dust Heterogeneous Reactions during Long-Range Transport of a Severe Dust Storm in May 2017 over East Asia. Atmosphere, 2019, 10, 680.	2.3	11
64	Characterization of carbonaceous aerosols in Asian outflow in the spring of 2015: Importance of non-fossil fuel sources. Atmospheric Environment, 2019, 214, 116858.	4.1	10
65	Chemical formation and source apportionment of PM2.5 at an urban site at the southern foot of the Taihang mountains. Journal of Environmental Sciences, 2021, 103, 20-32.	6.1	10
66	Chemical Characteristics and Potential Sources of PM2.5 in Shahe City during Severe Haze Pollution Episodes in the Winter. Aerosol and Air Quality Research, 2020, 20, 2741-2753.	2.1	10
67	Increasing impacts of the relative contributions of regional transport on air pollution in Beijing: Observational evidence. Environmental Pollution, 2022, 292, 118407.	7.5	10
68	Synergistic effect of reductions in multiple gaseous precursors on secondary inorganic aerosols in winter under a meteorology-based redistributed daily NH3 emission inventory within the Beijing-Tianjin-Hebei region, China. Science of the Total Environment, 2022, 821, 153383.	8.0	10
69	The chemical composition and mixing state of BC-containing particles and the implications on light absorption enhancement. Atmospheric Chemistry and Physics, 2022, 22, 7619-7630.	4.9	10
70	Measurement report: Vertical distribution of biogenic and anthropogenic secondary organic aerosols in the urban boundary layer over Beijing during late summer. Atmospheric Chemistry and Physics, 2021, 21, 12949-12963.	4.9	9
71	Seasonal variabilities in chemical compounds and acidity of aerosol particles at urban site in the west Pacific. Environmental Pollution, 2018, 237, 868-877.	7.5	8
72	Influence of the morphological change in natural Asian dust during transport: A modeling study for a typical dust event over northern China. Science of the Total Environment, 2020, 739, 139791.	8.0	8

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73	Size-resolved characterization of organic aerosol in the North China Plain: new insights from high resolution spectral analysis. Environmental Science Atmospheres, 2021, 1, 346-358.	2.4	8
74	The dynamic multi-box algorithm of atmospheric environmental capacity. Science of the Total Environment, 2022, 806, 150951.	8.0	8
75	Uplifting of Asian Continental Pollution Plumes from the Boundary Layer to the Free Atmosphere over the Northwestern Pacific Rim in Spring. Scientific Online Letters on the Atmosphere, 2013, 9, 40-44.	1.4	7
76	Inverse Modeling of Asian Dust Emissions with POPC Observations: A TEMM Dust Sand Storm 2014 Case Study. Scientific Online Letters on the Atmosphere, 2017, 13, 31-35.	1.4	7
77	The importance of hydroxymethanesulfonate (HMS) in winter haze episodes in North China Plain. Environmental Research, 2022, 211, 113093.	7.5	7
78	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. Environmental Science & Technology, 2019, 53, 7984-7995.	10.0	6
79	Direct measurements of black carbon fluxes in central Beijing using the eddy covariance method. Atmospheric Chemistry and Physics, 2021, 21, 147-162.	4.9	6
80	Observed and Modeled Mass Concentrations of Organic Aerosols and PM2.5 at Three Remote Sites around the East China Sea: Roles of Chemical Aging. Aerosol and Air Quality Research, 2017, 17, 3091-3105.	2.1	6
81	Increase in daytime ozone exposure due to nighttime accumulation in a typical city in eastern China during 2014â€“2020. Atmospheric Pollution Research, 2022, 13, 101387.	3.8	6
82	Transport Patterns and Potential Sources of Atmospheric Pollution during the XXIV Olympic Winter Games Period. Advances in Atmospheric Sciences, 2022, 39, 1608-1622.	4.3	6
83	Biological and Nonbiological Sources of Fluorescent Aerosol Particles in the Urban Atmosphere. Environmental Science & Technology, 2022, 56, 7588-7597.	10.0	6
84	The effects of a solar eclipse on photo-oxidants in different areas of China. Atmospheric Chemistry and Physics, 2011, 11, 8075-8085.	4.9	5
85	High-resolution modeling of the distribution of surface air pollutants and their intercontinental transport by a global tropospheric atmospheric chemistry sourceâ€“receptor model (GNAQPMS-SM). Geoscientific Model Development, 2021, 14, 7573-7604.	3.6	5
86	Analysis of the mixing state of airborne particles using a tandem combination of laser-induced fluorescence and incandescence techniques. Journal of Aerosol Science, 2015, 87, 102-110.	3.8	4
87	Dust Acid Uptake Analysis during Long-Lasting Dust and Pollution Episodes over East Asia Based on Synergetic Observation and Chemical Transport Model. Scientific Online Letters on the Atmosphere, 2017, 13, 109-113.	1.4	4
88	The role of biomass burning states in light absorption enhancement of carbonaceous aerosols. Scientific Reports, 2020, 10, 12829.	3.3	4
89	Evaluation and Bias Correction of the Secondary Inorganic Aerosol Modeling over North China Plain in Autumn and Winter. Atmosphere, 2021, 12, 578.	2.3	4
90	Mixing characteristics of black carbon aerosols in a coastal city using the CPMA-SP2 system. Atmospheric Research, 2022, 265, 105867.	4.1	4

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91	Model Evaluation and Uncertainty Analysis of PM2.5 Components over Pearl River Delta Region Using Monte Carlo Simulations. Aerosol and Air Quality Research, 2021, 21, 200075.	2.1	4
92	An integrated air quality modeling system coupling regional-urban and street models in Beijing. Urban Climate, 2022, 43, 101143.	5.7	4
93	Long-Term (2017â€"2020) Aerosol Optical Depth Observations in Hohhot City in Mongolian Plateau and the Impacts from Different Types of Aerosol. Atmosphere, 2022, 13, 737.	2.3	4
94	Cross-boundary transport and source apportionment for PM2.5 in a typical industrial city in the Hebei Province, China: A modeling study. Journal of Environmental Sciences, 2022, 115, 465-473.	6.1	3
95	Primary Emissions and Secondary Aerosol Processing During Wintertime in Rural Area of North China Plain. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
96	Tracer-based characterization of fine carbonaceous aerosol in Beijing during a strict emission control period. Science of the Total Environment, 2022, 841, 156638.	8.0	3
97	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. Journal of Environmental Sciences, 2022, 114, 514-525.	6.1	2
98	Dwindling aromatic compounds in fine aerosols from chunk coal to honeycomb briquette combustion. Science of the Total Environment, 2022, 838, 155971.	8.0	1