Zongbo Shi

List of Publications by Year
in descending order

140 papers	5,829 citations	61857 43 h-index	91712 69 g-index
179 all docs	179 docs citations	179 times ranked	5121 citing authors

#	Article	IF	Citations
1	Impacts on iron solubility in the mineral dust by processes in the source region and the atmosphere: A review. Aeolian Research, 2012, 5, 21-42.	1.1	228
2	Assessing the impact of clean air action on air quality trends in Beijing using a machine learning technique. Atmospheric Chemistry and Physics, 2019, 19, 11303-11314.	1.9	215
3	Abrupt but smaller than expected changes in surface air quality attributable to COVID-19 lockdowns. Science Advances, 2021, 7, .	4.7	209
4	Characterization of airborne individual particles collected in an urban area, a satellite city and a clean air area in Beijing, 2001. Atmospheric Environment, 2003, 37, 4097-4108.	1.9	190
5	Air pollutionâ€"aerosol interactions produce more bioavailable iron for ocean ecosystems. Science Advances, 2017, 3, e1601749.	4.7	182
6	Spatial and seasonal variability of PM_{2.5} acidity at two Chinese megacities: insights into the formation of secondary inorganic aerosols. Atmospheric Chemistry and Physics, 2012, 12, 1377-1395.	1.9	158
7	Atmospheric acidification of mineral aerosols: a source of bioavailable phosphorus for the oceans. Atmospheric Chemistry and Physics, 2011, 11, 6265-6272.	1.9	156
8	Formation of Iron Nanoparticles and Increase in Iron Reactivity in Mineral Dust during Simulated Cloud Processing. Environmental Science & Technology, 2009, 43, 6592-6596.	4.6	140
9	Fractal Dimensions and Mixing Structures of Soot Particles during Atmospheric Processing. Environmental Science and Technology Letters, 2017, 4, 487-493.	3.9	136
10	A review of receptor modelling of industrially emitted particulate matter. Atmospheric Environment, 2014, 97, 109-120.	1.9	131
11	Microscopy and mineralogy of airborne particles collected during severe dust storm episodes in Beijing, China. Journal of Geophysical Research, 2005, 110, .	3.3	126
12	Iron dissolution kinetics of mineral dust at low pH during simulated atmospheric processing. Atmospheric Chemistry and Physics, 2011, 11, 995-1007.	1.9	122
13	Influences of sulfate and nitrate on the hygroscopic behaviour of coarse dust particles. Atmospheric Environment, 2008, 42, 822-827.	1.9	114
14	Delivery of anthropogenic bioavailable iron from mineral dust and combustion aerosols to the ocean. Atmospheric Chemistry and Physics, 2016, 16, 85-99.	1.9	110
15	A conceptual framework for mixing structures in individual aerosol particles. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,784.	1.2	98
16	Introduction to the special issue â€œIn-depth study of air pollution sources and processes within Beijing and its surrounding region (APHH-Beijing)â€. Atmospheric Chemistry and Physics, 2019, 19, 7519-7546.	1.9	95
17	Mass and number size distributions of particulate matter components: Comparison of an industrial site and an urban background site. Science of the Total Environment, 2014, 475, 29-38.	3.9	92
18	Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	90

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19	Chemical composition, source, and process of urban aerosols during winter haze formation in Northeast China. Environmental Pollution, 2017, 231, 357-366.	3.7	89
20	Characterization and source apportionment of carbonaceous PM2.5 particles in China - A review. Atmospheric Environment, 2018, 189, 187-212.	1.9	85
21	Significant Changes in Chemistry of Fine Particles in Wintertime Beijing from 2007 to 2017: Impact of Clean Air Actions. Environmental Science & Technology, 2020, 54, 1344-1352.	4.6	84
22	Key Role of Nitrate in Phase Transitions of Urban Particles: Implications of Important Reactive Surfaces for Secondary Aerosol Formation. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1234-1243.	1.2	81
23	High-time-resolution source apportionment of PM_{2.5} in Beijing with multiple models. Atmospheric Chemistry and Physics, 2019, 19, 6595-6609.	1.9	77
24	Receptor modelling of airborne particulate matter in the vicinity of a major steelworks site. Science of the Total Environment, 2014, 490, 488-500.	3.9	72
25	Atmospheric Processing Outside Clouds Increases Soluble Iron in Mineral Dust. Environmental Science & Technology, 2015, 49, 1472-1477.	4.6	68
26	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14639-14644.	3.3	68
27	Mixing state and hygroscopicity of dust and haze particles before leaving Asian continent. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1044-1059.	1.2	67
28	Morphology, composition, and mixing state of primary particles from combustion sources â€" crop residue, wood, and solid waste. Scientific Reports, 2017, 7, 5047.	1.6	66
29	Variations and sources of nitrous acid (HONO) during a severe pollution episode in Beijing in winter 2016. Science of the Total Environment, 2019, 648, 253-262.	3.9	62
30	More mileage in reducing urban air pollution from road traffic. Environment International, 2021, 149, 106329.	4.8	62
31	Direct Observations of Fine Primary Particles From Residential Coal Burning: Insights Into Their Morphology, Composition, and Hygroscopicity. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,964.	1.2	61
32	Individual metal-bearing particles in a regional haze caused by firecracker and firework emissions. Science of the Total Environment, 2013, 443, 464-469.	3.9	57
33	Variation in Concentration and Sources of Black Carbon in a Megacity of China During the COVIDâ€19 Pandemic. Geophysical Research Letters, 2020, 47, e2020GL090444.	1.5	56
34	Five-year record of atmospheric precipitation chemistry in urban Beijing, China. Atmospheric Chemistry and Physics, 2012, 12, 2025-2035.	1.9	55
35	Exploring wintertime regional haze in northeast China: role of coal and biomass burning. Atmospheric Chemistry and Physics, 2020, 20, 5355-5372.	1.9	55
36	Open ocean and coastal new particle formation from sulfuric acid and amines around the Antarctic Peninsula. Nature Geoscience, 2021, 14, 383-388.	5.4	54

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37	Mineralogical characteristics of airborne particles collected in Beijing during a severe Asian dust storm period in spring 2002. Science in China Series D: Earth Sciences, 2007, 50, 953-959.	0.9	52
38	Chemistry of Atmospheric Fine Particles During the COVIDâ€19 Pandemic in a Megacity of Eastern China. Geophysical Research Letters, 2021, 48, 2020GL091611.	1.5	51
39	Formation of secondary organic aerosols from anthropogenic precursors in laboratory studies. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	51
40	Non-methane Hydrocarbons and Their Ozone Formation Potentials in Foshan, China. Aerosol and Air Quality Research, 2012, 12, 387-398.	0.9	48
41	Bioreactivity of particulate matter in Beijing air: Results from plasmid DNA assay. Science of the Total Environment, 2006, 367, 261-272.	3.9	47
42	The Potential Impact of Saharan Dust and Polluted Aerosols on Microbial Populations in the East Mediterranean Sea, an Overview of a Mesocosm Experimental Approach. Frontiers in Marine Science, 2016, 3, .	1.2	47
43	Characterization of Traffic-Related Particulate Matter Emissions in a Road Tunnel in Birmingham, UK: Trace Metals and Organic Molecular Markers. Aerosol and Air Quality Research, 2017, 17, 117-130.	0.9	46
44	Minor effect of physical size sorting on iron solubility of transported mineral dust. Atmospheric Chemistry and Physics, 2011, 11, 8459-8469.	1.9	44
45	Ocean fertilization by pyrogenic aerosol iron. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	44
46	Spring Festival and COVIDâ€19 Lockdown: Disentangling PM Sources in Major Chinese Cities. Geophysical Research Letters, 2021, 48, e2021GL093403.	1.5	40
47	Atmospheric conditions and composition that influence PM_{2.5} oxidative potential in Beijing, China. Atmospheric Chemistry and Physics, 2021, 21, 5549-5573.	1.9	38
48	Trace element and isotope deposition across the airâ€“sea interface: progress and research needs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160190.	1.6	37
49	Iron solubility in fine particles associated with secondary acidic aerosols in east China. Environmental Pollution, 2020, 264, 114769.	3.7	37
50	Organic Coating Reduces Hygroscopic Growth of Phase-Separated Aerosol Particles. Environmental Science & Technology, 2021, 55, 16339-16346.	4.6	37
51	Large contributions of biogenic and anthropogenic sources to fine organic aerosols in Tianjin, North China. Atmospheric Chemistry and Physics, 2020, 20, 117-137.	1.9	36
52	Modification of soot by volatile species in an urban atmosphere. Science of the Total Environment, 2008, 389, 195-201.	3.9	35
53	Source apportionment of single particles sampled at the industrially polluted town of Port Talbot, United Kingdom by ATOFMS. Atmospheric Environment, 2014, 97, 155-165.	1.9	35
54	Strong anthropogenic control of secondary organic aerosol formation from isoprene in Beijing. Atmospheric Chemistry and Physics, 2020, 20, 7531-7552.	1.9	35

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55	Insight into PM_{2.5} sources by applying positive matrix factorization (PMF) at urban and rural sites of Beijing. Atmospheric Chemistry and Physics, 2021, 21, 14703-14724.	1.9	35
56	Organic compound source profiles of PM2.5 from traffic emissions, coal combustion, industrial processes and dust. Chemosphere, 2021, 278, 130429.	4.2	32
57	Organic coating on sulfate and soot particles during late summer in the Svalbard Archipelago. Atmospheric Chemistry and Physics, 2019, 19, 10433-10446.	1.9	31
58	Street-scale air quality modelling for Beijing during a winter 2016 measurement campaign. Atmospheric Chemistry and Physics, 2020, 20, 2755-2780.	1.9	31
59	Distribution and Bioaccumulation of Essential and Toxic Metals in Tissues of Thaila (Catla catla) from a Natural Lake, Pakistan and Its Possible Health Impact on Consumers. Journal of Marine Science and Engineering, 2022, 10, 933.	1.2	31
60	Composition and hygroscopicity of aerosol particles at Mt. Lu in South China: Implications for acid precipitation. Atmospheric Environment, 2014, 94, 626-636.	1.9	30
61	Nonlinear Enhancement of Radiative Absorption by Black Carbon in Response to Particle Mixing Structure. Geophysical Research Letters, 2021, 48, .	1.5	30
62	Diurnal variation of number concentration and size distribution of ultrafine particles in the urban atmosphere of Beijing in winter. Journal of Environmental Sciences, 2007, 19, 933-938.	3.2	29
63	Fertilization of the Northwest Pacific Ocean by East Asia Air Pollutants. Global Biogeochemical Cycles, 2019, 33, 690-702.	1.9	29
64	Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. Environmental Science and Technology Letters, 2021, 8, 16-23.	3.9	29
65	Alkanes and aliphatic carbonyl compounds in wintertime PM2.5 in Beijing, China. Atmospheric Environment, 2019, 202, 244-255.	1.9	28
66	Chemical interaction of atmospheric mineral dust-derived nanoparticles with natural seawater â€" EPS and sunlight-mediated changes. Science of the Total Environment, 2014, 468-469, 265-271.	3.9	27
67	Molecular insights into new particle formation in Barcelona, Spain. Atmospheric Chemistry and Physics, 2020, 20, 10029-10045.	1.9	27
68	Observations of highly oxidized molecules and particle nucleation in the atmosphere of Beijing. Atmospheric Chemistry and Physics, 2019, 19, 14933-14947.	1.9	26
69	Distinct chemical and mineralogical composition of Icelandic dust compared to northern African and Asian dust. Atmospheric Chemistry and Physics, 2020, 20, 13521-13539.	1.9	26
70	Cloud scavenging of anthropogenic refractory particles at a mountain site in North China. Atmospheric Chemistry and Physics, 2018, 18, 14681-14693.	1.9	25
71	Microscopic Evidence for Phase Separation of Organic Species and Inorganic Salts in Fine Ambient Aerosol Particles. Environmental Science & Technology, 2021, 55, 2234-2242.	4.6	25
72	Chemical source profiles of fine particles for five different sources in Delhi. Chemosphere, 2021, 274, 129913.	4.2	25

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73	Phytoplankton growth response to Asian dust addition in the northwest Pacific Ocean versus the Yellow Sea. Biogeosciences, 2018, 15, 749-765.	1.3	23
74	Source apportionment of fine organic carbon at an urban site of Beijing using a chemical mass balance model. Atmospheric Chemistry and Physics, 2021, 21, 7321-7341.	1.9	23
75	Nitrate sources and formation of rainwater constrained by dual isotopes in Southeast Asia: Example from Singapore. Chemosphere, 2020, 241, 125024.	4.2	22
76	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.	1.2	22
77	Sources and processes of iron aerosols in a megacity in Eastern China. Atmospheric Chemistry and Physics, 2022, 22, 2191-2202.	1.9	22
78	New insights into the sources and formation of carbonaceous aerosols in China: potential applications of dual-carbon isotopes. National Science Review, 2017, 4, 804-806.	4.6	21
79	Implications for ozone control by understanding the survivor bias in observed ozone-volatile organic compounds system. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	21
80	Persistent residential burning-related primary organic particles during wintertime hazes in North China: insights into their aging and optical changes. Atmospheric Chemistry and Physics, 2021, 21, 2251-2265.	1.9	20
81	Vertical profiles of biogenic volatile organic compounds as observed online at a tower in Beijing. Journal of Environmental Sciences, 2020, 95, 33-42.	3.2	19
82	Source apportionment of fine organic carbon (OC) using receptor modelling at a rural site of Beijing: Insight into seasonal and diurnal variation of source contributions. Environmental Pollution, 2020, 266, 115078.	3.7	19
83	Colloidal stability of nanoparticles derived from simulated cloud-processed mineral dusts. Science of the Total Environment, 2014, 466-467, 864-870.	3.9	18
84	Science-policy interplay on air pollution governance in China. Environmental Science and Policy, 2020, 107, 150-157.	2.4	18
85	Key Role of NO₃ Radicals in the Production of Isoprene Nitrates and Nitrooxyorganosulfates in Beijing. Environmental Science & Technology, 2021, 55, 842-853.	4.6	18
86	Response of the Eastern Mediterranean Microbial Ecosystem to Dust and Dust Affected by Acid Processing in the Atmosphere. Frontiers in Marine Science, 2016, 3, .	1.2	17
87	Fine particles from village air in northern China in winter: Large contribution of primary organic aerosols from residential solid fuel burning. Environmental Pollution, 2021, 272, 116420.	3.7	17
88	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. Atmospheric Measurement Techniques, 2020, 13, 6325-6341.	1.2	16
89	Liquid-liquid phase separation reduces radiative absorption by aged black carbon aerosols. Communications Earth & Environment, 2022, 3, .	2.6	16
90	Oxidative stress on plasmid DNA induced by inhalable particles in the urban atmosphere. Science Bulletin, 2004, 49, 692-697.	1.7	15

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91	Source apportionment of carbonaceous aerosols in Beijing with radiocarbon and organic tracers: insight into the differences between urban and rural sites. Atmospheric Chemistry and Physics, 2021, 21, 8273-8292.	1.9	15
92	Black Carbon Involved Photochemistry Enhances the Formation of Sulfate in the Ambient Atmosphere: Evidence From In Situ Individual Particle Investigation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035226.	1.2	15
93	Differences in the composition of organic aerosols between winter and summer in Beijing: a study by direct-infusion ultrahigh-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2020, 20, 13303-13318.	1.9	15
94	Tracing the evolution of morphology and mixing state of soot particles along with the movement of an Asian dust storm. Atmospheric Chemistry and Physics, 2020, 20, 14321-14332.	1.9	15
95	Simultaneous measurements of urban and rural particles in Beijing â€“ Part 1: Chemical composition and mixing state. Atmospheric Chemistry and Physics, 2020, 20, 9231-9247.	1.9	15
96	Quantifying the Fractal Dimension and Morphology of Individual Atmospheric Soot Aggregates. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	14
97	Haze particles over a coalâ€burning region in the China Loess Plateau in winter: Three flight missions in December 2010. Journal of Geophysical Research, 2012, 117, .	3.3	13
98	Number size distribution of atmospheric particles in a suburban Beijing in the summer and winter of 2015. Atmospheric Environment, 2018, 186, 32-44.	1.9	13
99	Dependence of pollutant emission factors and fuel consumption on driving conditions and gasoline vehicle types. Atmospheric Pollution Research, 2021, 12, 137-146.	1.8	13
100	Insight into the composition of organic compounds (â€‰â‰¥â€‰â€‰C₆) in PM_{2.5} in wintertime in Beijing, China. Atmospheric Chemistry and Physics, 2019, 19, 10865-10881.	1.9	12
101	Primary particulate matter emissions and estimates of secondary organic aerosol formation potential from the exhaust of a China V diesel engine. Atmospheric Environment, 2019, 218, 116987.	1.9	12
102	Chemical Composition and Source Apportionment of PM2.5 in Urban Areas of Xiangtan, Central South China. International Journal of Environmental Research and Public Health, 2019, 16, 539.	1.2	12
103	An evaluation of source apportionment of fine OC and PM_{2.5}by multiple methods: APHH-Beijing campaigns as a case study. Faraday Discussions, 2021, 226, 290-313.	1.6	12
104	Mineral dust in urban air: Beijing, China. Mineralogical Magazine, 2003, 67, 173-182.	0.6	11
105	Impacts of emergency health protection measures upon air quality, traffic and public health: evidence from Oxford, UK. Environmental Pollution, 2022, 293, 118584.	3.7	11
106	On the fossil and non-fossil fuel sources of carbonaceous aerosol with radiocarbon and AMS-PMF methods during winter hazy days in a rural area of North China plain. Environmental Research, 2022, 208, 112672.	3.7	11
107	Iron from coal combustion particles dissolves much faster than mineral dust under simulated atmospheric acidic conditions. Atmospheric Chemistry and Physics, 2022, 22, 6045-6066.	1.9	11
108	Source forensics of inorganic and organic nitrogen using Î´15N for tropospheric aerosols over Mt. Tai. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	10

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109	Sizeâˆ'resolved source apportionment of particulate matter from a megacity in northern China based on one-year measurement of inorganic and organic components. Environmental Pollution, 2021, 289, 117932.	3.7	10
110	Size-dependent aerosol iron solubility in an urban atmosphere. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	10
111	Insights into air pollution chemistry and sulphate formation from nitrous acid (HONO) measurements during haze events in Beijing. Faraday Discussions, 2021, 226, 223-238.	1.6	9
112	Impact of air emissions from shipping on marine phytoplankton growth. Science of the Total Environment, 2021, 769, 145488.	3.9	9
113	Frontier review on comprehensive two-dimensional gas chromatography for measuring organic aerosol. Journal of Hazardous Materials Letters, 2021, 2, 100013.	2.0	9
114	Quantifying Air Pollutant Emission from Agricultural Machinery Using Surveysâ€"A Case Study in Anhui, China. Atmosphere, 2021, 12, 440.	1.0	8
115	Measurement report: Comparison of wintertime individual particles at ground level and above the mixed layer in urban Beijing. Atmospheric Chemistry and Physics, 2021, 21, 5301-5314.	1.9	8
116	Simultaneous measurements of urban and rural particles in Beijing â€" Part 2: Case studies of haze events and regional transport. Atmospheric Chemistry and Physics, 2020, 20, 9249-9263.	1.9	8
117	Development and application of a ratiometric nanosensor for measuring pH inside the gastrointestinal tract of zooplankton. Environmental Science: Nano, 2020, 7, 1652-1660.	2.2	7
118	Estimation of hygroscopic growth properties of source-related sub-micrometre particle types in a mixed urban aerosol. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	7
119	Differentiation of coarse-mode anthropogenic, marine and dust particles in the High Arctic islands of Svalbard. Atmospheric Chemistry and Physics, 2021, 21, 11317-11335.	1.9	7
120	Measurement report: Interpretation of wide-range particulate matter size distributions in Delhi. Atmospheric Chemistry and Physics, 2022, 22, 5415-5433.	1.9	7
121	Properties of individual aerosol particles and their relation to air mass origins in a south China coastal city. Journal of Geophysical Research, 2009, 114, .	3.3	6
122	Stabilizing Lowâ€Silica Zeolites through Aluminum Sulfate Assisted Cannibalistic Dealumination. ChemCatChem, 2016, 8, 1891-1895.	1.8	6
123	Aliphatic carbonyl compounds (C₈â€"C₂₆) in wintertime atmospheric aerosol in London, UK. Atmospheric Chemistry and Physics, 2019, 19, 2233-2246.	1.9	6
124	PM2.5-bound silicon-containing secondary organic aerosols (Si-SOA) in Beijing ambient air. Chemosphere, 2021, 288, 132377.	4.2	5
125	Trends in Local Air Quality 1970â€"2014. Issues in Environmental Science and Technology, 2015, , 58-106.	0.4	5
126	A mesoporous aluminosilicate prepared by simply coating fibrous Î^{3}-AlOOH on the external surface of SBA-15 for catalytic hydrocarbon cracking. RSC Advances, 2016, 6, 40296-40303.	1.7	4

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127	Geological and geochemical constraints on the origin of the Early Cambrian Kalaizi Feâ€“Ba deposit in Western Kunlun, NW China. Ore Geology Reviews, 2018, 100, 347-359.	1.1	3
128	Chemical characteristics and source apportionment of particulate matter (PM2.5) in Dammam, Saudi Arabia: Impact of dust storms. Atmospheric Environment: X, 2022, 14, 100164.	0.8	3
129	Highlights from Faraday Discussion: Chemistry in the urban atmosphere, United Kingdom, April 2016. Chemical Communications, 2016, 52, 9162-9172.	2.2	2
130	Evaluation of Contamination Status and Health Risk Assessment of Essential and Toxic Metals in Cyprinus carpio from Mangla Lake, Pakistan. Biological Trace Element Research, 2021, 199, 4284-4294.	1.9	2
131	Air quality services on climate time-scales for decision making: An empirical study of China. Journal of Cleaner Production, 2021, 312, 127651.	4.6	2
132	Urban case studies: general discussion. Faraday Discussions, 2016, 189, 473-514.	1.6	1
133	General discussion: Aerosol formation and growth; VOC sources and secondary organic aerosols. Faraday Discussions, 2021, 226, 479-501.	1.6	1
134	Optimisation of a Numerical Model to Simulate the Dispersion and Chemical Transformations Within the Oxides of Nitrogen/Ozone System as Traffic Pollution Enters an Urban Greenspace. Earth Systems and Environment, 2021, 5, 927.	3.0	1
135	Oxidative stress on plasmid DNA induced by inhalable particles in the urban atmosphere. Science Bulletin, 2004, 49, 692.	1.7	0
136	General discussion: Multiphase atmospheric chemistry, and source apportionment. Faraday Discussions, 2021, 226, 314-333.	1.6	0
137	General discussion: Sources, sinks and mitigation methods; evaluation of health impacts. Faraday Discussions, 2021, 226, 607-616.	1.6	0
138	General discussion: Urban air quality; Meteorological influences and air quality trends. Faraday Discussions, 2021, 226, 191-206.	1.6	0
139	The Importance of Atmospheric Nutrients in the Earth System. Eos, 2016, 97, .	0.1	0
140	Future projections of daily haze-conducive and clear weather conditions over the North China Plain using a perturbed parameter ensemble. Atmospheric Chemistry and Physics, 2022, 22, 7443-7460.	1.9	0