Mei Zheng

List of Publications by Year
in descending order

67 papers	4,049 citations	159585 30 h-index	118850 62 g-index
67 all docs	67 docs citations	67 times ranked	3873 citing authors

#	Article	IF	Citations
1	Source Apportionment of PM2.5 in the Southeastern United States Using Solvent-Extractable Organic Compounds as Tracers. Environmental Science & Technology, 2002, 36, 2361-2371.	10.0	482
2	Regionally-Varying Combustion Sources of the January 2013 Severe Haze Events over Eastern China. Environmental Science & Technology, 2015, 49, 2038-2043.	10.0	228
3	Fine particle pH during severe haze episodes in northern China. Geophysical Research Letters, 2017, 44, 5213-5221.	4.0	193
4	Chemical characteristics and light-absorbing property of water-soluble organic carbon in Beijing: Biomass burning contributions. Atmospheric Environment, 2015, 121, 4-12.	4.1	192
5	Nitrate dominates the chemical composition of PM2.5 during haze event in Beijing, China. Science of the Total Environment, 2019, 689, 1293-1303.	8.0	179
6	Humidity plays an important role in the PM 2.5 pollution in Beijing. Environmental Pollution, 2015, 197, 68-75.	7.5	170
7	Review of receptor-based source apportionment research of fine particulate matter and its challenges in China. Science of the Total Environment, 2017, 586, 917-929.	8.0	159
8	A yearlong study of water-soluble organic carbon in Beijing II: Light absorption properties. Atmospheric Environment, 2014, 89, 235-241.	4.1	155
9	Tracerâ€based estimation of secondary organic carbon in the Pearl River Delta, south China. Journal of Geophysical Research, 2012, 117, .	3.3	149
10	Contributions of inter-city and regional transport to PM2.5 concentrations in the Beijing-Tianjin-Hebei region and its implications on regional joint air pollution control. Science of the Total Environment, 2019, 660, 1191-1200.	8.0	149
11	Important fossil source contribution to brown carbon in Beijing during winter. Scientific Reports, 2017, 7, 43182.	3.3	111
12	Source apportionment of black carbon during winter in Beijing. Science of the Total Environment, 2018, 618, 531-541.	8.0	103
13	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	8.0	93
14	Atmospheric PAHs in North China: Spatial distribution and sources. Science of the Total Environment, 2016, 565, 994-1000.	8.0	83
15	Residential Coal Combustion as a Source of Levoglucosan in China. Environmental Science & Technology, 2018, 52, 1665-1674.	10.0	83
16	The characteristics of Beijing aerosol during two distinct episodes: Impacts of biomass burning and fireworks. Environmental Pollution, 2014, 185, 149-157.	7.5	80
17	Potassium: A Tracer for Biomass Burning in Beijing?. Aerosol and Air Quality Research, 2018, 18, 2447-2459.	2.1	79
18	Commuter exposure to particulate matter and particle-bound PAHs in three transportation modes in Beijing, China. Environmental Pollution, 2015, 204, 199-206.	7.5	77

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19	High-time-resolution source apportionment of PM_{2.5} in Beijing with multiple models. Atmospheric Chemistry and Physics, 2019, 19, 6595-6609.	4.9	77
20	Chemical composition of PM 2.5 from two tunnels with different vehicular fleet characteristics. Science of the Total Environment, 2016, 550, 123-132.	8.0	76
21	Sources and spatial distribution of particulate polycyclic aromatic hydrocarbons in Shanghai, China. Science of the Total Environment, 2017, 584-585, 307-317.	8.0	73
22	Sources of polycyclic aromatic hydrocarbons to sediments of the Bohai and Yellow Seas in East Asia. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	62
23	Potentially Important Contribution of Gas-Phase Oxidation of Naphthalene and Methylnaphthalene to Secondary Organic Aerosol during Haze Events in Beijing. Environmental Science & Technology, 2019, 53, 1235-1244.	10.0	54
24	Oxidative Potential by PM_{2.5} in the North China Plain: Generation of Hydroxyl Radical. Environmental Science & Technology, 2019, 53, 512-520.	10.0	51
25	Nonlinear relationships between air pollutant emissions and PM2.5-related health impacts in the Beijing-Tianjin-Hebei region. Science of the Total Environment, 2019, 661, 375-385.	8.0	49
26	High-time-resolution PM2.5 source apportionment based on multi-model with organic tracers in Beijing during haze episodes. Science of the Total Environment, 2021, 772, 144766.	8.0	48
27	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
28	Single particle mass spectral signatures from vehicle exhaust particles and the source apportionment of on-line PM 2.5 by single particle aerosol mass spectrometry. Science of the Total Environment, 2017, 593-594, 310-318.	8.0	40
29	Comparison of water-soluble inorganic ions and trace metals in PM2.5 between online and offline measurements in Beijing during winter. Atmospheric Pollution Research, 2019, 10, 1755-1765.	3.8	37
30	Source apportionment of Pb-containing particles in Beijing during January 2013. Environmental Pollution, 2017, 226, 30-40.	7.5	36
31	Characterization of saccharides and associated usage in determining biogenic and biomass burning aerosols in atmospheric fine particulate matter in the North China Plain. Science of the Total Environment, 2019, 650, 2939-2950.	8.0	33
32	Characteristics and sources of aerosol pollution at a polluted rural site southwest in Beijing, China. Science of the Total Environment, 2018, 626, 519-527.	8.0	32
33	Sources and characteristics of fine particles over the Yellow Sea and Bohai Sea using online single particle aerosol mass spectrometer. Journal of Environmental Sciences, 2015, 29, 62-70.	6.1	29
34	Are emissions of black carbon from gasoline vehicles overestimated? Real-time, in situ measurement of black carbon emission factors. Science of the Total Environment, 2016, 547, 422-428.	8.0	29
35	Understanding PM2.5 sources in China: challenges and perspectives. National Science Review, 2017, 4, 801-803.	9.5	29
36	Deposition of Organic and Black Carbon: Direct Measurements at Three Remote Stations in the Himalayas and Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9702-9715.	3.3	29

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37	Significant impact of heterogeneous reactions of reactive chlorine species on summertime atmospheric ozone and free-radical formation in north China. Science of the Total Environment, 2019, 693, 133580.	8.0	29
38	Comparable hydrogen isotopic fractionation of plant leaf wax nâ€alkanoic acids in arid and humid subtropical ecosystems. Geochemistry, Geophysics, Geosystems, 2014, 15, 361-373.	2.5	28
39	Divergent Evolution of Carbonaceous Aerosols during Dispersal of East Asian Haze. Scientific Reports, 2017, 7, 10422.	3.3	27
40	PM_{2.5} source apportionment in the southeastern U.S.: Spatial and seasonal variations during 2001â€“2005. Journal of Geophysical Research, 2012, 117, .	3.3	26
41	Exploring sources and health risks of metals in Beijing PM2.5: Insights from long-term online measurements. Science of the Total Environment, 2022, 814, 151954.	8.0	26
42	Molecular Characterization of Waterâ€Soluble Brown Carbon Chromophores in Beijing, China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032018.	3.3	25
43	Susceptibility of individuals with chronic obstructive pulmonary disease to respiratory inflammation associated with short-term exposure to ambient air pollution: A panel study in Beijing. Science of the Total Environment, 2021, 766, 142639.	8.0	24
44	Sources of primary and secondary organic aerosol and their diurnal variations. Journal of Hazardous Materials, 2014, 264, 536-544.	12.4	22
45	Molecular characterization of polar organic aerosol constituents in off-road engine emissions using Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS): implications for source apportionment. Atmospheric Chemistry and Physics, 2019, 19, 13945-13956.	4.9	21
46	Large-river dominated black carbon flux and budget: A case study of the estuarine-inner shelf of East China Sea, China. Science of the Total Environment, 2019, 651, 2489-2496.	8.0	20
47	Application and Progress of Single Particle Aerosol Time-of-Flight Mass Spectrometry in Fine Particulate Matter Research. Chinese Journal of Analytical Chemistry, 2015, 43, 765-774.	1.7	18
48	Developing chemical signatures of particulate air pollution in the Pearl River Delta region, China. Journal of Environmental Sciences, 2011, 23, 1143-1149.	6.1	17
49	Uncertainties in thermal-optical measurements of black carbon: Insights from source and ambient samples. Science of the Total Environment, 2019, 656, 239-249.	8.0	16
50	Understanding sources of fine particulate matter in China. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190325.	3.4	16
51	Strong Impacts of Legitimate Open Burning on Brown Carbon Aerosol in Northeast China. Environmental Science and Technology Letters, 2021, 8, 732-738.	8.7	16
52	Intercomparison of equivalent black carbon (eBC) and elemental carbon (EC) concentrations with three-year continuous measurement in Beijing, China. Environmental Research, 2022, 209, 112791.	7.5	15
53	Health effects of air pollution: what we need to know and to do in the next decade. Journal of Thoracic Disease, 2019, 11, 1727-1730.	1.4	13
54	Significant Contribution of Primary Sources to Water-Soluble Organic Carbon During Spring in Beijing, China. Atmosphere, 2020, 11, 395.	2.3	13

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55	Risk factors in air pollution exposome contributing to higher levels of TNFÎ± in COPD patients. Environment International, 2022, 159, 107034.	10.0	13
56	Integration of field observation and air quality modeling to characterize Beijing aerosol in different seasons. Chemosphere, 2020, 242, 125195.	8.2	10
57	A clear north-to-south spatial gradience of chloride in marine aerosol in Chinese seas under the influence of East Asian Winter Monsoon. Science of the Total Environment, 2022, 832, 154929.	8.0	10
58	Susceptibility of individuals with lung dysfunction to systemic inflammation associated with ambient fine particle exposure: A panel study in Beijing. Science of the Total Environment, 2021, 788, 147760.	8.0	9
59	Ceramide metabolism mediates the impaired glucose homeostasis following short-term black carbon exposure: A targeted lipidomic analysis. Science of the Total Environment, 2022, 829, 154657.	8.0	8
60	Impacts of COVIDâ€19 on Black Carbon in Two Representative Regions in China: Insights Based on Online Measurement in Beijing and Tibet. Geophysical Research Letters, 2021, 48, e2021GL092770.	4.0	7
61	Associations between differences in anemia-related blood cell parameters and short-term exposure to ambient particle pollutants in middle-aged and elderly residents in Beijing, China. Science of the Total Environment, 2022, 816, 151520.	8.0	7
62	PM2.5 Source Apportionment in China. Issues in Environmental Science and Technology, 2016, , 293-314.	0.4	6
63	The characteristics of carbonaceous aerosol in Beijing during a season of transition. Chemosphere, 2018, 212, 1010-1019.	8.2	5
64	Differences in transcriptome response to air pollution exposure between adult residents with and without chronic obstructive pulmonary disease in Beijing: A panel study. Journal of Hazardous Materials, 2021, 416, 125790.	12.4	5
65	Susceptibility of patients with chronic obstructive pulmonary disease to heart rate difference associated with the short-term exposure to metals in ambient fine particles: A panel study in Beijing, China. Science China Life Sciences, 2021, , 1.	4.9	4
66	Transcriptomics reveals the mechanisms of population susceptibility to blood glucose associated with short-term exposure to ambient fine and ultrafine particles. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
67	The Application of Sensors in Air Quality and Health Studies in China. ISEE Conference Abstracts, 2018, 2018, .	0.0	0