

Shaojie Song

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,980
citations

136885

32
h-index

168321

53
g-index

102
all docs

102
docs citations

102
times ranked

3106
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7423-7438.	1.9	208
2	Fast sulfate formation from oxidation of SO ₂ by NO ₂ and HONO observed in Beijing haze. <i>Nature Communications</i> , 2020, 11, 2844.	5.8	161
3	Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , 2021, 14, 389-395.	5.4	139
4	Ozone pollution in the North China Plain spreading into the late-winter haze season. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	138
5	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6107-6123.	1.9	137
6	The impact of power generation emissions on ambient PM _{2.5} pollution and human health in China and India. <i>Environment International</i> , 2018, 121, 250-259.	4.8	111
7	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1357-1371.	1.9	97
8	Characterization and source apportionment of particulate PAHs in the roadside environment in Beijing. <i>Science of the Total Environment</i> , 2014, 470-471, 76-83.	3.9	96
9	Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7103-7125.	1.9	96
10	Trend analysis from 1970 to 2008 and model evaluation of EDGARv4 global gridded anthropogenic mercury emissions. <i>Science of the Total Environment</i> , 2014, 494-495, 337-350.	3.9	94
11	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021, 14, 77-84.	5.4	94
12	Chemical characteristics of size-resolved PM _{2.5} at a roadside environment in Beijing, China. <i>Environmental Pollution</i> , 2012, 161, 215-221.	3.7	79
13	Ozone pollution over China and India: seasonality and sources. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4399-4414.	1.9	79
14	Multi-model study of mercury dispersion in the atmosphere: atmospheric processes and model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5271-5295.	1.9	76
15	Chemical Differences Between PM ₁ and PM _{2.5} in Highly Polluted Environment and Implications in Air Pollution Studies. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086288.	1.5	72
16	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1511-1530.	1.9	68
17	Chemical cycling and deposition of atmospheric mercury in polar regions: review of recent measurements and comparison with models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10735-10763.	1.9	63
18	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 547-567.	1.7	62

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19	Black carbon at a roadside site in Beijing: Temporal variations and relationships with carbon monoxide and particle number size distribution. <i>Atmospheric Environment</i> , 2013, 77, 213-221.	1.9	61
20	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. <i>Geophysical Research Letters</i> , 2015, 42, 10,494.	1.5	57
21	Characteristics of On-road Diesel Vehicles: Black Carbon Emissions in Chinese Cities Based on Portable Emissions Measurement. <i>Environmental Science & Technology</i> , 2015, 49, 13492-13500.	4.6	57
22	Thermodynamic Modeling Suggests Declines in Water Uptake and Acidity of Inorganic Aerosols in Beijing Winter Haze Events during 2014/2015â€“2018/2019. <i>Environmental Science and Technology Letters</i> , 2019, 6, 752-760.	3.9	56
23	Bottom-Up Estimates of Coal Mine Methane Emissions in China: A Gridded Inventory, Emission Factors, and Trends. <i>Environmental Science and Technology Letters</i> , 2019, 6, 473-478.	3.9	52
24	Evaluating EDGARv4.tox2 speciated mercury emissions ex-post scenarios and their impacts on modelled global and regional wet deposition patterns. <i>Atmospheric Environment</i> , 2018, 184, 56-68.	1.9	50
25	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.	1.9	47
26	Production of hydrogen from offshore wind in China and cost-competitive supply to Japan. <i>Nature Communications</i> , 2021, 12, 6953.	5.8	47
27	High-Resolution Data Sets Unravel the Effects of Sources and Meteorological Conditions on Nitrate and Its Gas-Particle Partitioning. <i>Environmental Science & Technology</i> , 2019, 53, 3048-3057.	4.6	46
28	Economic and technological feasibility of using power-to-hydrogen technology under higher wind penetration in China. <i>Renewable Energy</i> , 2021, 173, 569-580.	4.3	46
29	Contribution of Particulate Nitrate Photolysis to Heterogeneous Sulfate Formation for Winter Haze in China. <i>Environmental Science and Technology Letters</i> , 2020, 7, 632-638.	3.9	43
30	Contribution of hydroxymethanesulfonate (HMS) to severe winter haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5887-5897.	1.9	40
31	Consumption-Based Accounting of Global Anthropogenic CH ₄ Emissions. <i>Earth's Future</i> , 2018, 6, 1349-1363.	2.4	39
32	Aerosol pH Dynamics During Haze Periods in an Urban Environment in China: Use of Detailed, Hourly, Speciated Observations to Study the Role of Ammonia Availability and Secondary Aerosol Formation and Urban Environment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9730-9742.	1.2	35
33	Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6925-6955.	1.9	30
34	Interactions between aerosol organic components and liquid water content during haze episodes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12163-12174.	1.9	29
35	Secular decrease of wind power potential in India associated with warming in the Indian Ocean. <i>Science Advances</i> , 2018, 4, eaat5256.	4.7	28
36	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6023-6033.	1.9	28

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37	Seasonal prediction of Indian wintertime aerosol pollution using the ocean memory effect. <i>Science Advances</i> , 2019, 5, eaav4157.	4.7	26
38	Chemical characterization of roadside PM _{2.5} and black carbon in Macao during a summer campaign. <i>Atmospheric Pollution Research</i> , 2014, 5, 381-387.	1.8	24
39	Roles of RH, aerosol pH and sources in concentrations of secondary inorganic aerosols, during different pollution periods. <i>Atmospheric Environment</i> , 2020, 241, 117770.	1.9	21
40	Ammonium Chloride Associated Aerosol Liquid Water Enhances Haze in Delhi, India. <i>Environmental Science & Technology</i> , 2022, 56, 7163-7173.	4.6	21
41	The role of sulfate and its corresponding S(IV)+NO ₂ formation pathway during the evolution of haze in Beijing. <i>Science of the Total Environment</i> , 2019, 687, 741-751.	3.9	20
42	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. <i>Environmental Research Letters</i> , 2021, 16, 104018.	2.2	19
43	Understanding mercury oxidation and air-snow exchange on the East Antarctic Plateau: a modeling study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15825-15840.	1.9	18
44	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.	3.7	18
45	Global modeling of heterogeneous hydroxymethanesulfonate chemistry. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 457-481.	1.9	17
46	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6325-6341.	1.2	16
47	Projected changes in wind power potential over China and India in high resolution climate models. <i>Environmental Research Letters</i> , 2021, 16, 034057.	2.2	14
48	Sensitivity of modeled Indian monsoon to Chinese and Indian aerosol emissions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3593-3605.	1.9	13
49	Mass concentrations and temporal profiles of PM ₁₀ , PM _{2.5} and PM ₁ near major urban roads in Beijing. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 675-684.	3.3	10
50	Using High-Temporal-Resolution Ambient Data to Investigate Gas-Particle Partitioning of Ammonium over Different Seasons. <i>Environmental Science & Technology</i> , 2020, 54, 9834-9843.	4.6	10
51	Projected changes in seasonal and extreme summertime temperature and precipitation in India in response to COVID-19 recovery emissions scenarios. <i>Environmental Research Letters</i> , 2021, 16, 114025.	2.2	9
52	Deep decarbonization of the Indian economy: 2050 prospects for wind, solar, and green hydrogen. <i>IScience</i> , 2022, 25, 104399.	1.9	9
53	The importance of hydroxymethanesulfonate (HMS) in winter haze episodes in North China Plain. <i>Environmental Research</i> , 2022, 211, 113093.	3.7	7
54	Vertically Resolved Aerosol Chemistry in the Low Boundary Layer of Beijing in Summer. <i>Environmental Science & Technology</i> , 2022, 56, 9312-9324.	4.6	6

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55	Diurnal variations of fossil and nonfossil carbonaceous aerosols in Beijing. Atmospheric Environment, 2015, 122, 349-356.	1.9	5
56	Constraints from observations and modeling on atmosphere-air surface exchange of mercury in eastern North America. Elementa, 2016, 4, .	1.1	4
57	The Influence of Dynamics and Emissions Changes on China's Wintertime Haze. Journal of Applied Meteorology and Climatology, 2019, 58, 1603-1611.	0.6	3
58	Understanding factors influencing the detection of mercury policies in modelled Laurentian Great Lakes wet deposition. Environmental Sciences: Processes and Impacts, 2018, 20, 1373-1389.	1.7	2