

# Zhaobin Sun

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

740  
citations

430874

18  
h-index

552781

26  
g-index

41  
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41  
docs citations

41  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of black carbon exposure level and health economic loss in China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 52123-52132.	5.3	0
2	Projections of future temperature-related cardiovascular mortality under climate change, urbanization and population aging in Beijing, China. <i>Environment International</i> , 2022, 163, 107231.	10.0	31
3	The health impacts of aerosol-planetary boundary layer interactions on respiratory and circulatory mortality. <i>Atmospheric Environment</i> , 2022, 276, 119050.	4.1	10
4	Development of GRAPES-CUACE adjoint model version 2.0 and its application in sensitivity analysis of ozone pollution in north China. <i>Science of the Total Environment</i> , 2022, 826, 153879.	8.0	1
5	Joint occurrence of heatwaves and ozone pollution and increased health risks in Beijing, China: role of synoptic weather pattern and urbanization. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6523-6538.	4.9	28
6	Construction of the environmental meteorological comprehensive health index under the atmospheric comprehensive health risk in Beijing, China. <i>Urban Climate</i> , 2022, 44, 101199.	5.7	3
7	The influences of the East Asian Monsoon on the spatio-temporal pattern of seasonal influenza activity in China. <i>Science of the Total Environment</i> , 2022, 843, 157024.	8.0	4
8	Boundary layer structure characteristics under objective classification of persistent pollution weather types in the Beijing area. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8863-8882.	4.9	16
9	Development of four-dimensional variational assimilation system based on the GRAPES-CUACE adjoint model (GRAPES-CUACE-4D-Var V1.0) and its application in emission inversion. <i>Geoscientific Model Development</i> , 2021, 14, 337-350.	3.6	6
10	Regional atmospheric pollutant transport mechanisms over the North China Plain driven by topography and planetary boundary layer processes. <i>Atmospheric Environment</i> , 2020, 221, 117098.	4.1	46
11	Vertical evolution of black carbon characteristics and heating rate during a haze event in Beijing winter. <i>Science of the Total Environment</i> , 2020, 709, 136251.	8.0	36
12	Impacts of urbanization on the temperature-cardiovascular mortality relationship in Beijing, China. <i>Environmental Research</i> , 2020, 191, 110234.	7.5	26
13	Modifying effects of temperature on human mortality related to black carbon particulates in Beijing, China. <i>Atmospheric Environment</i> , 2020, 243, 117845.	4.1	9
14	Assessment of the short-term mortality effect of the national action plan on air pollution in Beijing, China. <i>Environmental Research Letters</i> , 2020, 15, 034052.	5.2	19
15	Seasonal variation in health impacts associated with visibility in Beijing, China. <i>Science of the Total Environment</i> , 2020, 730, 139149.	8.0	19
16	Estimating the mortality burden attributable to temperature and PM <sub>2.5</sub> from the perspective of atmospheric flow. <i>Environmental Research Letters</i> , 2020, 15, 124059.	5.2	16
17	A foehn-induced haze front in Beijing: observations and implications. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15793-15809.	4.9	5
18	Associations of black carbon and PM <sub>2.5</sub> with daily cardiovascular mortality in Beijing, China. <i>Atmospheric Environment</i> , 2019, 214, 116876.	4.1	31

#	ARTICLE	IF	CITATIONS
19	Dynamic effects of topography on dust particles in the Beijing region of China. <i>Atmospheric Environment</i> , 2019, 213, 413-423.	4.1	11
20	Does the early haze warning policy in Beijing reflect the associated health risks, even for slight haze?. <i>Atmospheric Environment</i> , 2019, 210, 110-119.	4.1	14
21	Comparing the impact of strong and weak East Asian winter monsoon on PM <sub>2.5</sub> concentration in Beijing. <i>Atmospheric Research</i> , 2019, 215, 165-177.	4.1	29
22	Analysis of abrupt changes in the PM <sub>2.5</sub> concentration in Beijing during the conversion period from the summer to winter half-year in 2006–2015. <i>Atmospheric Environment</i> , 2019, 200, 319-328.	4.1	10
23	Vertical Profiles of Aerosol Composition over Beijing, China: Analysis of In Situ Aircraft Measurements. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 231-245.	1.7	25
24	Tracking sensitive source areas of different weather pollution types using GRAPES-CUACE adjoint model. <i>Atmospheric Environment</i> , 2018, 175, 154-166.	4.1	13
25	Oscillation of Surface PM <sub>2.5</sub> Concentration Resulting from an Alternation of Easterly and Southerly Winds in Beijing: Mechanisms and Implications. <i>Journal of Meteorological Research</i> , 2018, 32, 288-301.	2.4	10
26	Increasing persistent haze in Beijing: potential impacts of weakening East Asian winter monsoons associated with northwestern Pacific sea surface temperature trends. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3173-3183.	4.9	75
27	Detection of critical PM <sub>2.5</sub> ; emission sources and their contributions to a heavy haze episode in Beijing, China, using an adjoint model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6241-6258.	4.9	22
28	Tracking a Severe Pollution Event in Beijing in December 2016 with the GRAPES–CUACE Adjoint Model. <i>Journal of Meteorological Research</i> , 2018, 32, 49-59.	2.4	6
29	Vertical-distribution Characteristics of Atmospheric Aerosols under Different Thermodynamic Conditions in Beijing. <i>Aerosol and Air Quality Research</i> , 2018, 18, 2775-2787.	2.1	19
30	Assessment of resident's exposure level and health economic costs of PM <sub>10</sub> in Beijing from 2008 to 2012. <i>Science of the Total Environment</i> , 2016, 563-564, 557-565.	8.0	27
31	Model assessment of atmospheric pollution control schemes for critical emission regions. <i>Atmospheric Environment</i> , 2016, 124, 367-377.	4.1	17
32	Assessment of population exposure to PM <sub>10</sub> for respiratory disease in Lanzhou (China) and its health-related economic costs based on GIS. <i>BMC Public Health</i> , 2013, 13, 891.	2.9	43
33	Emission inventory evaluation using observations of regional atmospheric background stations of China. <i>Journal of Environmental Sciences</i> , 2013, 25, 537-546.	6.1	22
34	An assessment of China's PM <sub>10</sub> -related health economic losses in 2009. <i>Science of the Total Environment</i> , 2012, 435-436, 61-65.	8.0	36
35	Association between dust weather and number of admissions for patients with respiratory diseases in spring in Lanzhou. <i>Science of the Total Environment</i> , 2012, 423, 8-11.	8.0	53