Shixian Zhai

List of Publications by Year
in descending order

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		567281	752698
20	1,684	15	20
papers	citations	h-index	g-index

22	22	22	1697
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Continuous mapping of fine particulate matter (PM_{2.5}) air quality in East Asia at daily 6â€‰â€‰Ã—â€‰â€‰6â€‰km² resolution by application of a random forest algorithm to 2011â€“2019 GOCI geostationary satellite data. Atmospheric Measurement Techniques, 2022, 15, 1075-1091.	3.1	5
2	Aerosolâ€Radiation Interactions in China in Winter: Competing Effects of Reduced Shortwave Radiation and Cloudâ€Snowfallâ€Albedo Feedbacks Under Rapidly Changing Emissions. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	5
3	Limitations in representation of physical processes prevent successful simulation of PM_{2.5} during KORUS-AQ. Atmospheric Chemistry and Physics, 2022, 22, 7933-7958.	4.9	17
4	Ozone pollution in the North China Plain spreading into the late-winter haze season. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	138
5	Control of particulate nitrate air pollution in China. Nature Geoscience, 2021, 14, 389-395.	12.9	139
6	Estimating hourly surface PM2.5 concentrations across China from high-density meteorological observations by machine learning. Atmospheric Research, 2021, 254, 105516.	4.1	30
7	Comparative analysis of precipitation structures in two Southwest China Vortex events over eastern Sichuan Basin by TRMM. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 221, 105691.	1.6	2
8	Global modeling of heterogeneous hydroxymethanesulfonate chemistry. Atmospheric Chemistry and Physics, 2021, 21, 457-481.	4.9	17
9	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM_{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. Atmospheric Chemistry and Physics, 2021, 21, 16775-16791.	4.9	18
10	Construction of a virtual PM2.5 observation network in China based on high-density surface meteorological observations using the Extreme Gradient Boosting model. Environment International, 2020, 141, 105801.	10.0	85
11	Effect of changing NO_{<i>x</i>} lifetime on the seasonality and long-term trends of satellite-observed tropospheric NO₂ columns over China. Atmospheric Chemistry and Physics, 2020, 20, 1483-1495.	4.9	135
12	Global modeling of cloud water acidity, precipitation acidity, and acid inputs to ecosystems. Atmospheric Chemistry and Physics, 2020, 20, 12223-12245.	4.9	33
13	Fine particulate matter (PM_{2.5}) trends in China, 2013â€“2018: separating contributions from anthropogenic emissions and meteorology. Atmospheric Chemistry and Physics, 2019, 19, 11031-11041.	4.9	442
14	A two-pollutant strategy for improving ozone and particulate air quality in China. Nature Geoscience, 2019, 12, 906-910.	12.9	493
15	Tracking sensitive source areas of different weather pollution types using GRAPES-CUACE adjoint model. Atmospheric Environment, 2018, 175, 154-166.	4.1	13
16	Detection of critical PM_{2.5} emission sources and their contributions to a heavy haze episode in Beijing, China, using an adjoint model. Atmospheric Chemistry and Physics, 2018, 18, 6241-6258.	4.9	22
17	Tracking a Severe Pollution Event in Beijing in December 2016 with the GRAPESâ€“CUACE Adjoint Model. Journal of Meteorological Research, 2018, 32, 49-59.	2.4	6
18	Development of an adjoint model of GRAPESâ€“CUACE and its application in tracking influential haze source areas in north China. Geoscientific Model Development, 2016, 9, 2153-2165.	3.6	25

#	Article	IF	Citations
19	Model assessment of atmospheric pollution control schemes for critical emission regions. Atmospheric Environment, 2016, 124, 367-377.	4.1	17
20	Assessment of human exposure level to PM10 in China. Atmospheric Environment, 2013, 70, 376-386.	4.1	39