

Lu Shen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,411
citations

361413

20
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

3045
citing authors

#	ARTICLE	IF	CITATIONS
1	Tropospheric ozone interacts with weather and climate. , 2021, , 15-46.		1
2	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
3	Sensitivities of Ozone Air Pollution in the Beijingâ€“Tianjinâ€“Hebei Area to Local and Upwind Precursor Emissions Using Adjoint Modeling. Environmental Science & Technology, 2021, 55, 5752-5762.	10.0	35
4	Control of particulate nitrate air pollution in China. Nature Geoscience, 2021, 14, 389-395.	12.9	139
5	Satellite Constraints on the Latitudinal Distribution and Temperature Sensitivity of Wetland Methane Emissions. AGU Advances, 2021, 2, e2021AV000408.	5.4	31
6	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. Environmental Research Letters, 2021, 16, 104018.	5.2	19
7	Impacts of emission changes in China from 2010 to 2017 on domestic and intercontinental air quality and health effect. Atmospheric Chemistry and Physics, 2021, 21, 16051-16065.	4.9	9
8	Increases in surface ozone pollution in China from 2013 to 2019: anthropogenic and meteorological influences. Atmospheric Chemistry and Physics, 2020, 20, 11423-11433.	4.9	294
9	Meteorology and Climate Influences on Tropospheric Ozone: a Review of Natural Sources, Chemistry, and Transport Patterns. Current Pollution Reports, 2019, 5, 238-260.	6.6	140
10	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
11	Predicting the Impact of Climate Change on Severe Wintertime Particulate Pollution Events in Beijing Using Extreme Value Theory. Geophysical Research Letters, 2019, 46, 1824-1830.	4.0	21
12	An evaluation of the ability of the Ozone Monitoring Instrument (OMI) to observe boundary layer ozone pollution across China: application to 2005â€“2017 ozone trends. Atmospheric Chemistry and Physics, 2019, 19, 6551-6560.	4.9	65
13	Evaluating the Response of Summertime Surface Sulfate to Hydroclimate Variations in the Continental United States: Role of Meteorological Inputs in the GEOSâ€“Chem Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1662-1679.	3.3	4
14	The 2005â€“2016 Trends of Formaldehyde Columns Over China Observed by Satellites: Increasing Anthropogenic Emissions of Volatile Organic Compounds and Decreasing Agricultural Fire Emissions. Geophysical Research Letters, 2019, 46, 4468-4475.	4.0	66
15	A two-pollutant strategy for improving ozone and particulate air quality in China. Nature Geoscience, 2019, 12, 906-910.	12.9	493
16	Anthropogenic drivers of 2013â€“2017 trends in summer surface ozone in China. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 422-427.	7.1	990
17	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. Environmental Research Letters, 2018, 13, 114002.	5.2	26
18	Synoptic meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in major metropolitan regions of China. Atmospheric Chemistry and Physics, 2018, 18, 6733-6748.	4.9	95

#	ARTICLE	IF	CITATIONS
19	Seasonal prediction of US summertime ozone using statistical analysis of large scale climate patterns. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2491-2496.	7.1	33
20	Strong Dependence of U.S. Summertime Air Quality on the Decadal Variability of Atlantic Sea Surface Temperatures. Geophysical Research Letters, 2017, 44, 12527-12535.	4.0	9
21	What Controls Springtime Fine Dust Variability in the Western United States? Investigating the 2002â€”2015 Increase in Fine Dust in the U.S. Southwest. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,449.	3.3	34
22	Multiple Change Point Analysis: Fast Implementation and Strong Consistency. IEEE Transactions on Signal Processing, 2017, 65, 4495-4510.	5.3	13
23	Effects of El NiÃ±o on Summertime Ozone Air Quality in the Eastern United States. Geophysical Research Letters, 2017, 44, 12543-12550.	4.0	23
24	Adverse effects of increasing drought on air quality via natural processes. Atmospheric Chemistry and Physics, 2017, 17, 12827-12843.	4.9	48
25	Influence of 2000â€”2050 climate change on particulate matter in the United States: results from a new statistical model. Atmospheric Chemistry and Physics, 2017, 17, 4355-4367.	4.9	65
26	Detecting structural changes in dependent data. , 2017, , .		1
27	Impact of increasing heat waves on U.S. ozone episodes in the 2050s: Results from a multimodel analysis using extreme value theory. Geophysical Research Letters, 2016, 43, 4017-4025.	4.0	85
28	Influence of synoptic patterns on surface ozone variability over the eastern United States from 1980 to 2012. Atmospheric Chemistry and Physics, 2015, 15, 10925-10938.	4.9	88