

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	Anthropogenic drivers of 2013–2017 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
2	A two-pollutant strategy for improving ozone and particulate air quality in China. Nature Geoscience, 2019, 12, 906-910.	12.9	493
3	Fine particulate matter (PM _{2.5}) trends in China, 2013–2018: separating contributions from anthropogenic emissions and meteorology. Atmospheric Chemistry and Physics, 2019, 19, 11031-11041.	4.9	442
4	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
5	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
6	Control of particulate nitrate air pollution in China. Nature Geoscience, 2021, 14, 389-395.	12.9	139
7	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
8	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
9	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
10	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
11	The 2005–2016 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
12	Influence of 2000–2050 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
13	An evaluation of the ability of the Ozone Monitoring Instrument (OMI) to observe boundary layer ozone pollution across China: application to 2005–2017 ozone trends. Atmospheric Chemistry and Physics, 2019, 19, 6551-6560.	4.9	65
14	Adverse effects of increasing drought on air quality via natural processes. Atmospheric Chemistry and Physics, 2017, 17, 12827-12843.	4.9	48
15	Sensitivities of Ozone Air Pollution in the Beijing–Tianjin–Hebei Area to Local and Upwind Precursor Emissions Using Adjoint Modeling. Environmental Science & Technology, 2021, 55, 5752-5762.	10.0	35
16	What Controls Springtime Fine Dust Variability in the Western United States? Investigating the 2002–2015 Increase in Fine Dust in the U.S. Southwest. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,449.	3.3	34
17	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
18	Satellite Constraints on the Latitudinal Distribution and Temperature Sensitivity of Wetland Methane Emissions. AGU Advances, 2021, 2, e2021AV000408.	5.4	31

#	ARTICLE	IF	CITATIONS
19	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. <i>Environmental Research Letters</i> , 2018, 13, 114002.	5.2	26
20	Effects of El Niño on Summertime Ozone Air Quality in the Eastern United States. <i>Geophysical Research Letters</i> , 2017, 44, 12543-12550.	4.0	23
21	Predicting the Impact of Climate Change on Severe Wintertime Particulate Pollution Events in Beijing Using Extreme Value Theory. <i>Geophysical Research Letters</i> , 2019, 46, 1824-1830.	4.0	21
22	Sustained methane emissions from China after 2012 despite declining coal production and rice-cultivated area. <i>Environmental Research Letters</i> , 2021, 16, 104018.	5.2	19
23	Multiple Change Point Analysis: Fast Implementation and Strong Consistency. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 4495-4510.	5.3	13
24	Strong Dependence of U.S. Summertime Air Quality on the Decadal Variability of Atlantic Sea Surface Temperatures. <i>Geophysical Research Letters</i> , 2017, 44, 12527-12535.	4.0	9
25	Impacts of emission changes in China from 2010 to 2017 on domestic and intercontinental air quality and health effect. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16051-16065.	4.9	9
26	Evaluating the Response of Summertime Surface Sulfate to Hydroclimate Variations in the Continental United States: Role of Meteorological Inputs in the GEOS-Chem Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1662-1679.	3.3	4
27	Detecting structural changes in dependent data. , 2017, , .		1
28	Tropospheric ozone interacts with weather and climate. , 2021, , 15-46.		1