

Guannan Geng

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

9,717
citations

57758

44
h-index

62596

80
g-index

103
all docs

103
docs citations

103
times ranked

6554
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in China's anthropogenic emissions since 2010 as the consequence of clean air actions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14095-14111.	4.9	1,613
2	Drivers of improved PM _{2.5} air quality in China from 2013 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24463-24469.	7.1	1,193
3	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017, 543, 705-709.	27.8	737
4	Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2017, 4, 834-866.	9.5	580
5	Full-coverage high-resolution daily PM _{2.5} estimation using MAIAC AOD in the Yangtze River Delta of China. <i>Remote Sensing of Environment</i> , 2017, 199, 437-446.	11.0	239
6	Targeted emission reductions from global super-polluting power plant units. <i>Nature Sustainability</i> , 2018, 1, 59-68.	23.7	215
7	An Ensemble Machine-Learning Model To Predict Historical PM _{2.5} Concentrations in China from Satellite Data. <i>Environmental Science & Technology</i> , 2018, 52, 13260-13269.	10.0	215
8	Estimating long-term PM _{2.5} concentrations in China using satellite-based aerosol optical depth and a chemical transport model. <i>Remote Sensing of Environment</i> , 2015, 166, 262-270.	11.0	214
9	Air quality improvements and health benefits from China's clean air action since 2013. <i>Environmental Research Letters</i> , 2017, 12, 114020.	5.2	213
10	Tracking Air Pollution in China: Near Real-Time PM _{2.5} Retrievals from Multisource Data Fusion. <i>Environmental Science & Technology</i> , 2021, 55, 12106-12115.	10.0	205
11	Drivers of PM _{2.5} air pollution deaths in China 2002–2017. <i>Nature Geoscience</i> , 2021, 14, 645-650.	12.9	197
12	Changes in China's anthropogenic emissions and air quality during the COVID-19 pandemic in 2020. <i>Earth System Science Data</i> , 2021, 13, 2895-2907.	9.9	176
13	Estimating ground-level PM _{2.5} concentrations over three megalopolises in China using satellite-derived aerosol optical depth measurements. <i>Atmospheric Environment</i> , 2016, 124, 232-242.	4.1	163
14	Predicting monthly high-resolution PM _{2.5} concentrations with random forest model in the North China Plain. <i>Environmental Pollution</i> , 2018, 242, 675-683.	7.5	146
15	Rapid improvement of PM _{2.5} pollution and associated health benefits in China during 2013–2017. <i>Science China Earth Sciences</i> , 2019, 62, 1847-1856.	5.2	146
16	Pathways of China's PM _{2.5} air quality 2015–2060 in the context of carbon neutrality. <i>National Science Review</i> , 2021, 8, nwab078.	9.5	142
17	Satellite-based estimates of decline and rebound in China's CO ₂ emissions during COVID-19 pandemic. <i>Science Advances</i> , 2020, 6, .	10.3	136
18	Economic footprint of California wildfires in 2018. <i>Nature Sustainability</i> , 2021, 4, 252-260.	23.7	131

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19	Air pollution characteristics and their relationship with emissions and meteorology in the Yangtze River Delta region during 2014–2016. <i>Journal of Environmental Sciences</i> , 2019, 83, 8-20.	6.1	123
20	Current Emissions and Future Mitigation Pathways of Coal-Fired Power Plants in China from 2010 to 2030. <i>Environmental Science & Technology</i> , 2018, 52, 12905-12914.	10.0	122
21	Estimating Spatiotemporal Variation in Ambient Ozone Exposure during 2013–2017 Using a Data-Fusion Model. <i>Environmental Science & Technology</i> , 2020, 54, 14877-14888.	10.0	118
22	Changes in spatial patterns of PM _{2.5} pollution in China 2000–2018: Impact of clean air policies. <i>Environment International</i> , 2020, 141, 105776.	10.0	118
23	Chemical composition of ambient PM _{2.5} over China and relationship to precursor emissions during 2005–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9187-9203.	4.9	117
24	Dynamic projection of anthropogenic emissions in China: methodology and 2015–2050 emission pathways under a range of socio-economic, climate policy, and pollution control scenarios. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5729-5757.	4.9	117
25	Inequality of household consumption and air pollution-related deaths in China. <i>Nature Communications</i> , 2019, 10, 4337.	12.8	114
26	Satellite remote sensing of changes in NO _x emissions over China during 1996–2010. <i>Science Bulletin</i> , 2012, 57, 2857-2864.	1.7	113
27	Tracking PM _{2.5} and O ₃ Pollution and the Related Health Burden in China 2013–2020. <i>Environmental Science & Technology</i> , 2022, 56, 6922-6932.	10.0	113
28	Impact of China's Air Pollution Prevention and Control Action Plan on PM _{2.5} chemical composition over eastern China. <i>Science China Earth Sciences</i> , 2019, 62, 1872-1884.	5.2	105
29	Separating emission and meteorological contributions to long-term PM _{2.5} trends over eastern China during 2000–2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9475-9496.	4.9	99
30	Associations of wildfire smoke PM _{2.5} exposure with cardiorespiratory events in Colorado 2011–2014. <i>Environment International</i> , 2019, 133, 105151.	10.0	94
31	Revealing the Hidden Health Costs Embodied in Chinese Exports. <i>Environmental Science & Technology</i> , 2015, 49, 4381-4388.	10.0	88
32	Resolution dependence of uncertainties in gridded emission inventories: a case study in Hebei, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 921-933.	4.9	88
33	Global climate forcing of aerosols embodied in international trade. <i>Nature Geoscience</i> , 2016, 9, 790-794.	12.9	79
34	Evaluation of gap-filling approaches in satellite-based daily PM _{2.5} prediction models. <i>Atmospheric Environment</i> , 2021, 244, 117921.	4.1	71
35	Development of PM _{2.5} and NO ₂ models in a LUR framework incorporating satellite remote sensing and air quality model data in Pearl River Delta region, China. <i>Environmental Pollution</i> , 2017, 226, 143-153.	7.5	70
36	Effects of atmospheric transport and trade on air pollution mortality in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10367-10381.	4.9	64

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37	Mapping anthropogenic emissions in China at 1 km spatial resolution and its application in air quality modeling. <i>Science Bulletin</i> , 2021, 66, 612-620.	9.0	64
38	Estimating ground-level PM _{2.5} in eastern China using aerosol optical depth determined from the GOCI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13133-13144.	4.9	61
39	Impact of spatial proxies on the representation of bottom-up emission inventories: A satellite-based analysis. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4131-4145.	4.9	61
40	Fusing Observational, Satellite Remote Sensing and Air Quality Model Simulated Data to Estimate Spatiotemporal Variations of PM _{2.5} Exposure in China. <i>Remote Sensing</i> , 2017, 9, 221.	4.0	55
41	Impact of clean air action on PM _{2.5} pollution in China. <i>Science China Earth Sciences</i> , 2019, 62, 1845-1846.	5.2	55
42	Enhancement of PM _{2.5} Concentrations by Aerosol-Meteorology Interactions Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1179-1194.	3.3	51
43	Decadal changes in anthropogenic source contribution of PM _{2.5} pollution and related health impacts in China, 1990-2015. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7783-7799.	4.9	49
44	Health co-benefits of climate change mitigation depend on strategic power plant retirements and pollution controls. <i>Nature Climate Change</i> , 2021, 11, 1077-1083.	18.8	49
45	Attribution of PM _{2.5} exposure in Beijing-Tianjin-Hebei region to emissions: implication to control strategies. <i>Science Bulletin</i> , 2017, 62, 957-964.	9.0	46
46	Association between pregnancy loss and ambient PM _{2.5} using survey data in Africa: a longitudinal case-control study, 1998-2016. <i>Lancet Planetary Health</i> , The, 2019, 3, e219-ee225.	11.4	46
47	Energy and emission pathways towards PM _{2.5} air quality attainment in the Beijing-Tianjin-Hebei region by 2030. <i>Science of the Total Environment</i> , 2019, 692, 361-370.	8.0	45
48	Estimation of pregnancy losses attributable to exposure to ambient fine particles in south Asia: an epidemiological case-control study. <i>Lancet Planetary Health</i> , The, 2021, 5, e15-e24.	11.4	44
49	Contribution of hydroxymethanesulfonate (HMS) to severe winter haze in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5887-5897.	4.9	40
50	Random forest models for PM _{2.5} speciation concentrations using MISR fractional AODs. <i>Environmental Research Letters</i> , 2020, 15, 034056.	5.2	37
51	Satellite-Based Daily PM _{2.5} Estimates During Fire Seasons in Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8159-8171.	3.3	36
52	Evaluating the spatiotemporal ozone characteristics with high-resolution predictions in mainland China, 2013-2019. <i>Environmental Pollution</i> , 2022, 299, 118865.	7.5	33
53	Estimating daily PM _{2.5} concentrations in New York City at the neighborhood-scale: Implications for integrating non-regulatory measurements. <i>Science of the Total Environment</i> , 2019, 697, 134094.	8.0	31
54	Open fire exposure increases the risk of pregnancy loss in South Asia. <i>Nature Communications</i> , 2021, 12, 3205.	12.8	31

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55	Long-term PM _{2.5} exposure and depressive symptoms in China: A quasi-experimental study. <i>The Lancet Regional Health - Western Pacific</i> , 2021, 6, 100079.	2.9	31
56	Satellite-based estimation of hourly PM _{2.5} levels during heavy winter pollution episodes in the Yangtze River Delta, China. <i>Chemosphere</i> , 2020, 239, 124678.	8.2	28
57	The sensitivity of satellite-based PM _{2.5} estimates to its inputs: Implications to model development in data-poor regions. <i>Environment International</i> , 2018, 121, 550-560.	10.0	26
58	Associations between exposure to landscape fire smoke and child mortality in low-income and middle-income countries: a matched case-control study. <i>Lancet Planetary Health</i> , The, 2021, 5, e588-e598.	11.4	25
59	Clean air actions in China, PM _{2.5} exposure, and household medical expenditures: A quasi-experimental study. <i>PLoS Medicine</i> , 2021, 18, e1003480.	8.4	22
60	Reduction in black carbon light absorption due to multi-pollutant emission control during APEC China 2014. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10275-10287.	4.9	20
61	Exposure to landscape fire smoke reduced birthweight in low- and middle-income countries: findings from a siblings-matched case-control study. <i>ELife</i> , 2021, 10, .	6.0	19
62	Satellite-based assessment of the long-term efficacy of PM _{2.5} pollution control policies across the Taiwan Strait. <i>Remote Sensing of Environment</i> , 2020, 251, 112067.	11.0	18
63	Modeling the aging process of black carbon during atmospheric transport using a new approach: a case study in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9663-9680.	4.9	17
64	Improved air quality in China can enhance solar-power performance and accelerate carbon-neutrality targets. <i>One Earth</i> , 2022, 5, 550-562.	6.8	17
65	Association between a Rapid Reduction in Air Particle Pollution and Improved Lung Function in Adults. <i>Annals of the American Thoracic Society</i> , 2021, 18, 247-256.	3.2	16
66	Comparison of Current and Future PM _{2.5} Air Quality in China Under CMIP6 and DPEC Emission Scenarios. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093197.	4.0	15
67	Dramatic changes in Harbin aerosol during 2018–2020: the roles of open burning policy and secondary aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15199-15211.	4.9	15
68	Air quality and health benefits of China's current and upcoming clean air policies. <i>Faraday Discussions</i> , 2021, 226, 584-606.	3.2	13
69	Reduction of Global Life Expectancy Driven by Trade-Related Transboundary Air Pollution. <i>Environmental Science and Technology Letters</i> , 2022, 9, 212-218.	8.7	13
70	New WHO global air quality guidelines help prevent premature deaths in China. <i>National Science Review</i> , 2022, 9, nwac055.	9.5	13
71	Corrigendum to Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2018, 5, 603-603.	9.5	12
72	Imbalanced transfer of trade-related air pollution mortality in China. <i>Environmental Research Letters</i> , 2020, 15, 094009.	5.2	11

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73	Application of Bayesian Additive Regression Trees for Estimating Daily Concentrations of PM2.5 Components. <i>Atmosphere</i> , 2020, 11, 1233.	2.3	10
74	Formation of secondary inorganic aerosol in a frigid urban atmosphere. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 16, 1.	6.0	10
75	Improved spatial representation of a highly resolved emission inventory in China: evidence from TROPOMI measurements. <i>Environmental Research Letters</i> , 2021, 16, 084056.	5.2	9
76	A Satellite-Based Land Use Regression Model of Ambient NO2 with High Spatial Resolution in a Chinese City. <i>Remote Sensing</i> , 2021, 13, 397.	4.0	6
77	Consumption-based PM2.5-related premature mortality in the Beijing-Tianjin-Hebei region. <i>Science of the Total Environment</i> , 2021, 800, 149575.	8.0	6
78	Evaporation process dominates vehicular NMVOC emissions in China with enlarged contribution from 1990 to 2016. <i>Environmental Research Letters</i> , 2021, 16, 124036.	5.2	4
79	Daily Emission Patterns of Coal-Fired Power Plants in China Based on Multisource Data Fusion. <i>ACS Environmental Au</i> , 2022, 2, 363-372.	7.0	4
80	Satellite-derived long-term estimates of full-coverage PM1 concentrations across China based on a stacking decision tree model. <i>Atmospheric Environment</i> , 2021, 255, 118448.	4.1	3