

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
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103
all docs

103
docs citations

103
times ranked

6554
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating the spatiotemporal ozone characteristics with high-resolution predictions in mainland China, 2013â€“2019. Environmental Pollution, 2022, 299, 118865.	7.5	33
2	Reduction of Global Life Expectancy Driven by Trade-Related Transboundary Air Pollution. Environmental Science and Technology Letters, 2022, 9, 212-218.	8.7	13
3	New WHO global air quality guidelines help prevent premature deaths in China. National Science Review, 2022, 9, nwac055.	9.5	13
4	Tracking PM _{2.5} and O ₃ Pollution and the Related Health Burden in China 2013â€“2020. Environmental Science & Technology, 2022, 56, 6922-6932.	10.0	113
5	Improved air quality in China can enhance solar-power performance and accelerate carbon-neutrality targets. One Earth, 2022, 5, 550-562.	6.8	17
6	Daily Emission Patterns of Coal-Fired Power Plants in China Based on Multisource Data Fusion. ACS Environmental Au, 2022, 2, 363-372.	7.0	4
7	Economic footprint of California wildfires in 2018. Nature Sustainability, 2021, 4, 252-260.	23.7	131
8	Mapping anthropogenic emissions in China at 1Åkm spatial resolution and its application in air quality modeling. Science Bulletin, 2021, 66, 612-620.	9.0	64
9	Evaluation of gap-filling approaches in satellite-based daily PM2.5 prediction models. Atmospheric Environment, 2021, 244, 117921.	4.1	71
10	Association between a Rapid Reduction in Air Particle Pollution and Improved Lung Function in Adults. Annals of the American Thoracic Society, 2021, 18, 247-256.	3.2	16
11	Air quality and health benefits of Chinaâ€™s current and upcoming clean air policies. Faraday Discussions, 2021, 226, 584-606.	3.2	13
12	A Satellite-Based Land Use Regression Model of Ambient NO2 with High Spatial Resolution in a Chinese City. Remote Sensing, 2021, 13, 397.	4.0	6
13	Estimation of pregnancy losses attributable to exposure to ambient fine particles in south Asia: an epidemiological case-control study. Lancet Planetary Health, The, 2021, 5, e15-e24.	11.4	44
14	Clean air actions in China, PM2.5 exposure, and household medical expenditures: A quasi-experimental study. PLoS Medicine, 2021, 18, e1003480.	8.4	22
15	Formation of secondary inorganic aerosol in a frigid urban atmosphere. Frontiers of Environmental Science and Engineering, 2021, 16, 1.	6.0	10
16	Pathways of China's PM2.5 air quality 2015â€“2060 in the context of carbon neutrality. National Science Review, 2021, 8, nwab078.	9.5	142
17	Open fire exposure increases the risk of pregnancy loss in South Asia. Nature Communications, 2021, 12, 3205.	12.8	31
18	Separating emission and meteorological contributions to long-term PM<sub>2.5</sub</sub> trends over eastern China during 2000â€“2018. Atmospheric Chemistry and Physics, 2021, 21, 9475-9496.	4.9	99

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19	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
20	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
21	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
22	Drivers of PM2.5 air pollution deaths in China 2002–2017. <i>Nature Geoscience</i> , 2021, 14, 645-650.	12.9	197
23	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
24	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
25	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
26	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
27	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
28	Long-term PM2.5 exposure and depressive symptoms in China: A quasi-experimental study. <i>The Lancet Regional Health - Western Pacific</i> , 2021, 6, 100079.	2.9	31
29	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
30	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
31	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
32	Satellite-based estimation of hourly PM2.5 levels during heavy winter pollution episodes in the Yangtze River Delta, China. <i>Chemosphere</i> , 2020, 239, 124678.	8.2	28
33	Satellite-based assessment of the long-term efficacy of PM2.5 pollution control policies across the Taiwan Strait. <i>Remote Sensing of Environment</i> , 2020, 251, 112067.	11.0	18
34	Application of Bayesian Additive Regression Trees for Estimating Daily Concentrations of PM2.5 Components. <i>Atmosphere</i> , 2020, 11, 1233.	2.3	10
35	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
36	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

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37	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
38	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
39	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
40	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
41	Random forest models for PM _{2.5} speciation concentrations using MISR fractional AODs. <i>Environmental Research Letters</i> , 2020, 15, 034056.	5.2	37
42	Imbalanced transfer of trade-related air pollution mortality in China. <i>Environmental Research Letters</i> , 2020, 15, 094009.	5.2	11
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	Inequality of household consumption and air pollution-related deaths in China. <i>Nature Communications</i> , 2019, 10, 4337.	12.8	114
51	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
52	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
53	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
54	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

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55	Targeted emission reductions from global super-polluting power plant units. <i>Nature Sustainability</i> , 2018, 1, 59-68.	23.7	215
56	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
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	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
59	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
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	Corrigendum to Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2018, 5, 603-603.	9.5	12
62	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
63	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
64	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
65	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
66	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017, 543, 705-709.	27.8	737
67	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
68	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
69	Anthropogenic emission inventories in China: a review. <i>National Science Review</i> , 2017, 4, 834-866.	9.5	580
70	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
71	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
72	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

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73	Resolution dependence of uncertainties in gridded emission inventories: a case study in Hebei, China. Atmospheric Chemistry and Physics, 2017, 17, 921-933.	4.9	88
74	Fusing Observational, Satellite Remote Sensing and Air Quality Model Simulated Data to Estimate Spatiotemporal Variations of PM2.5 Exposure in China. Remote Sensing, 2017, 9, 221.	4.0	55
75	Global climate forcing of aerosols embodied in international trade. Nature Geoscience, 2016, 9, 790-794.	12.9	79
76	Estimating ground-level PM2.5 concentrations over three megalopolises in China using satellite-derived aerosol optical depth measurements. Atmospheric Environment, 2016, 124, 232-242.	4.1	163
77	Estimating ground-level PM _{2.5} in eastern China using aerosol optical depth determined from the GOCI satellite instrument. Atmospheric Chemistry and Physics, 2015, 15, 13133-13144.	4.9	61
78	Estimating long-term PM2.5 concentrations in China using satellite-based aerosol optical depth and a chemical transport model. Remote Sensing of Environment, 2015, 166, 262-270.	11.0	214
79	Revealing the Hidden Health Costs Embodied in Chinese Exports. Environmental Science & Technology, 2015, 49, 4381-4388.	10.0	88
80	Satellite remote sensing of changes in NO _x emissions over China during 1996–2010. Science Bulletin, 2012, 57, 2857-2864.	1.7	113