

Jintai Lin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

5,427
citations

38
h-index

73
g-index

118
ext. papers

6,892
ext. citations

9.1
avg, IF

5.74
L-index

#	Paper	IF	Citations
91	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. <i>Nature</i> , 2015 , 524, 335-8	50.4	804
90	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017 , 543, 705-709	50.4	501
89	Global distribution of sea salt aerosols: new constraints from in situ and remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3137-3157	6.8	393
88	China's international trade and air pollution in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1736-41	11.5	302
87	Impacts of boundary layer mixing on pollutant vertical profiles in the lower troposphere: Implications to satellite remote sensing. <i>Atmospheric Environment</i> , 2010 , 44, 1726-1739	5.3	174
86	City-level climate change mitigation in China. <i>Science Advances</i> , 2018 , 4, eaaq0390	14.3	168
85	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	13.2	162
84	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1843-1864	6.1	153
83	Constraint of anthropogenic NO _x emissions in China from different sectors: a new methodology using multiple satellite retrievals. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 63-78	6.8	152
82	Retrieving tropospheric nitrogen dioxide from the Ozone Monitoring Instrument: effects of aerosols, surface reflectance anisotropy, and vertical profile of nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1441-1461	6.8	130
81	Exploring 2016-2017 surface ozone pollution over China: source contributions and meteorological influences. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8339-8361	6.8	127
80	Recent changes in particulate air pollution over China observed from space and the ground: effectiveness of emission control. <i>Environmental Science & Technology</i> , 2010 , 44, 7771-6	10.3	116
79	Assessment of China's virtual air pollution transport embodied in trade by using a consumption-based emission inventory. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5443-5456	6.8	105
78	Detection from space of a reduction in anthropogenic emissions of nitrogen oxides during the Chinese economic downturn. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8171-8188	6.8	102
77	Structural uncertainty in air mass factor calculation for NO ₂ and HCHO satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 759-782	4	91
76	Satellite constraint for emissions of nitrogen oxides from anthropogenic, lightning and soil sources over East China on a high-resolution grid. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2881-2898	6.8	90
75	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1-E22	6.1	81

74	Clean air for some: Unintended spillover effects of regional air pollution policies. <i>Science Advances</i> , 2019 , 5, eaav4707	14.3	80
73	Effect of changing NO ₂ lifetime on the seasonality and long-term trends of satellite-observed tropospheric NO ₂ columns over China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1483-1495	6.8	71
72	Revealing the hidden health costs embodied in Chinese exports. <i>Environmental Science & Technology</i> , 2015 , 49, 4381-8	10.3	68
71	Global model simulation of summertime U.S. ozone diurnal cycle and its sensitivity to PBL mixing, spatial resolution, and emissions. <i>Atmospheric Environment</i> , 2008 , 42, 8470-8483	5.3	68
70	Modeling uncertainties for tropospheric nitrogen dioxide columns affecting satellite-based inverse modeling of nitrogen oxides emissions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 12255-12275	6.8	66
69	Intercontinental transport of aerosols and photochemical oxidants from Asia and its consequences. <i>Environmental Pollution</i> , 2007 , 150, 65-84	9.3	62
68	Influence of aerosols and surface reflectance on satellite NO ₂ retrieval: seasonal and spatial characteristics and implications for NO ₂ emission constraints. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11217-11241	6.8	61
67	Satellite-based estimates of decline and rebound in China's CO emissions during COVID-19 pandemic. <i>Science Advances</i> , 2020 , 6,	14.3	58
66	Global climate forcing of aerosols embodied in international trade. <i>Nature Geoscience</i> , 2016 , 9, 790-794	18.3	57
65	Rapid growth in nitrogen dioxide pollution over Western China, 2005-2013. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6207-6221	6.8	54
64	Effects of Future Climate and Biogenic Emissions Changes on Surface Ozone over the United States and China. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 1888-1909	2.7	53
63	Analysis of European ozone trends in the period 1995-2014. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5589-5605	6.8	52
62	Characterising low-cost sensors in highly portable platforms to quantify personal exposure in diverse environments. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4643-4657	4	49
61	Environment-economy tradeoff for Beijing-Tianjin-Hebei exports. <i>Applied Energy</i> , 2016 , 184, 926-935	10.7	47
60	Impacts of meteorology and emissions on summertime surface ozone increases over central eastern China between 2003 and 2015. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1455-1469	6.8	45
59	Fugitive Road Dust PM Emissions and Their Potential Health Impacts. <i>Environmental Science & Technology</i> , 2019 , 53, 8455-8465	10.3	44
58	Effects of atmospheric transport and trade on air pollution mortality in China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10367-10381	6.8	43
57	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	6.8	42

56	Clear-sky aerosol optical depth over East China estimated from visibility measurements and chemical transport modeling. <i>Atmospheric Environment</i> , 2014 , 95, 258-267	5.3	41
55	Foreign and domestic contributions to springtime ozone over China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11447-11469	6.8	41
54	Updated Hourly Emissions Factors for Chinese Power Plants Showing the Impact of Widespread Ultralow Emissions Technology Deployment. <i>Environmental Science & Technology</i> , 2019 , 53, 2570-2578	10.3	39
53	Improved simulation of tropospheric ozone by a global-multi-regional two-way coupling model system. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2381-2400	6.8	36
52	Spatiotemporal variability of NO ₂ and PM _{2.5} over Eastern China: observational and model analyses with a novel statistical method. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12933-12952	6.8	32
51	Source sector and fuel contributions to ambient PM and attributable mortality across multiple spatial scales. <i>Nature Communications</i> , 2021 , 12, 3594	17.4	31
50	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6315-6327	6.8	28
49	Ozone trends over the United States at different times of day. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1185-1202	6.8	25
48	Air pollution-induced missed abortion risk for pregnancies. <i>Nature Sustainability</i> , 2019 , 2, 1011-1017	22.1	25
47	Trend reversal from high-to-low and from rural-to-urban ozone concentrations over Europe. <i>Atmospheric Environment</i> , 2019 , 213, 25-36	5.3	24
46	Trend and Interannual Variability of Chinese Air Pollution since 2000 in Association with Socioeconomic Development: A Brief Overview. <i>Atmospheric and Oceanic Science Letters</i> , 2013 , 6, 84-89	1.4	24
45	Sensitivity of future ozone concentrations in the northeast USA to regional climate change. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2008 , 13, 597-606	3.9	24
44	Reply to Lopez et al.: Consumption-based accounting helps mitigate global air pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2631	11.5	22
43	Carbon and health implications of trade restrictions. <i>Nature Communications</i> , 2019 , 10, 4947	17.4	22
42	Tropospheric carbon monoxide over the Pacific during HIPPO: two-way coupled simulation of GEOS-Chem and its multiple nested models. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12649-12663	6.8	21
41	A new TROPOMI product for tropospheric NO ₂ columns over East Asia with explicit aerosol corrections. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4247-4259	4	21
40	Air pollution exposure associates with increased risk of neonatal jaundice. <i>Nature Communications</i> , 2019 , 10, 3741	17.4	20
39	High-resolution (0.05° × 0.05°) NO _x emissions in the Yangtze River Delta inferred from OMI. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12835-12856	6.8	20

38	From production-based to consumption-based regional carbon inventories: Insight from spatial production fragmentation. <i>Applied Energy</i> , 2018 , 211, 549-567	10.7	20
37	Environmental taxation and regional inequality in China. <i>Science Bulletin</i> , 2019 , 64, 1691-1699	10.6	19
36	Impacts of long-range transport of global pollutants and precursor gases on U.S. air quality under future climatic conditions. <i>Journal of Geophysical Research</i> , 2008 , 113,		18
35	Constraints on Asian ozone using Aura TES, OMI and Terra MOPITT. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 99-112	6.8	17
34	The underappreciated role of agricultural soil nitrogen oxide emissions in ozone pollution regulation in North China. <i>Nature Communications</i> , 2021 , 12, 5021	17.4	17
33	Spatiotemporal dynamics of CO2 emissions from central heating supply in the North China Plain over 2012-2016 due to natural gas usage. <i>Applied Energy</i> , 2019 , 241, 245-256	10.7	16
32	Spatio-temporal variability of aerosols over East China inferred by merged visibility-GEOS-Chem aerosol optical depth. <i>Atmospheric Environment</i> , 2016 , 132, 111-122	5.3	15
31	Global high-resolution emissions of soil NO, sea salt aerosols, and biogenic volatile organic compounds. <i>Scientific Data</i> , 2020 , 7, 148	8.2	13
30	Global tropospheric effects of aromatic chemistry with the SAPRC-11 mechanism implemented in GEOS-Chem version 9-02. <i>Geoscientific Model Development</i> , 2019 , 12, 111-130	6.3	11
29	Potential effects of climate and emissions changes on surface ozone in the Chicago area. <i>Journal of Great Lakes Research</i> , 2010 , 36, 59-64	3	11
28	Winners and losers of the Sino-US trade war from economic and environmental perspectives. <i>Environmental Research Letters</i> , 2020 , 15, 094032	6.2	9
27	Chinese blue days: a novel index and spatio-temporal variations. <i>Environmental Research Letters</i> , 2019 , 14, 074026	6.2	8
26	Ship emission of nitrous acid (HONO) and its impacts on the marine atmospheric oxidation chemistry. <i>Science of the Total Environment</i> , 2020 , 735, 139355	10.2	8
25	Resolving ozone vertical gradients in air quality models 2017 ,		8
24	Socioeconomic and atmospheric factors affecting aerosol radiative forcing: Production-based versus consumption-based perspective. <i>Atmospheric Environment</i> , 2019 , 200, 197-207	5.3	8
23	Explicit calculation of indirect global warming potentials for halons using atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8719-8733	6.8	7
22	Rapid growth in nitrogen dioxide pollution over Western China, 2005-2013		6
21	On the local anthropogenic source diversities and transboundary transport for urban agglomeration ozone mitigation. <i>Atmospheric Environment</i> , 2021 , 245, 118005	5.3	6

20	Effectiveness of emission control in reducing PM _{2.5} pollution in central China during winter haze episodes under various potential synoptic controls. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3143-3162	6.8	5
19	Influence of aerosols and surface reflectance on satellite NO ₂ retrieval: seasonal and spatial characteristics and implications for NO ₂ retrieval; emission constraints		4
18	Retrieval of surface PM _{2.5} mass concentrations over North China using visibility measurements and GEOS-Chem simulations. <i>Atmospheric Environment</i> , 2020 , 222, 117121	5.3	4
17	Stratospheric Ozone-induced Cloud Radiative Effects on Antarctic Sea Ice. <i>Advances in Atmospheric Sciences</i> , 2020 , 37, 505-514	2.9	3
16	Effect of changing NO _x lifetime on the seasonality and long-term trends of satellite-observed tropospheric NO ₂ columns over China 2019 ,		3
15	Grid-Stretching Capability for the GEOS-Chem 13.0.0 Atmospheric Chemistry Model		3
14	Development and evaluation of a new compact mechanism for aromatic oxidation in atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 18351-18374	6.8	3
13	Effects of atmospheric transport and trade on air pollution mortality in China 2017 ,		2
12	Supplementary material to "Development and evaluation of a new compact mechanism for aromatic oxidation in atmospheric models"		2
11	Sulfur emissions from consumption by developed and developing countries produce comparable climate impacts. <i>Nature Geoscience</i> , 2022 , 15, 184-189	18.3	2
10	The impact of secondary inorganic aerosol emissions change on surface air temperature in the Northern Hemisphere. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 857-868	3	1
9	Spatiotemporal variability of NO ₂ and PM _{2.5} over Eastern China: observational and model analyses with a novel statistical method 2018 ,		1
8	Inequality in historical transboundary anthropogenic PM _{2.5} health impacts. <i>Science Bulletin</i> , 2021 , 67, 437-437	10.6	1
7	Tropospheric carbon monoxide over the Pacific during HIPPO: two-way coupled simulation of GEOS-Chem and its multiple nested models		1
6	Evaluation of county-level poverty alleviation progress by deep learning and satellite observations. <i>Big Earth Data</i> , 1-17	4.1	1
5	Impact of spatial proxies on the representation of bottom-up emission inventories: A satellite-based analysis 2016 ,		1
4	Impact of Ultra low emission technology of coal-fired power on PM _{2.5} pollution in the Jing-Jin-Ji Region. <i>Frontiers in Energy</i> , 2021 , 15, 235-239	2.6	1
3	Global tropospheric effects of aromatic chemistry with the SAPRC-11 mechanism implemented in GEOS-Chem 2018 ,		1

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| 2 | Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , 2021 , 14, 5977-5997 | 6.3 | o |
| 1 | Effect of springtime thermal forcing over Tibetan Plateau on summertime ozone in Central China during the period 1950-2019. <i>Atmospheric Research</i> , 2021 , 261, 105735 | 5.4 | o |