Dan Tong

List of Publications by Year
in descending order

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52 papers	8,860 citations	117453 34 h-index	168136 53 g-index
68 all docs	68 docs citations	68 times ranked	6345 citing authors

#	Article	IF	Citations
1	Trends in China's anthropogenic emissions since 2010 as the consequence of clean air actions. Atmospheric Chemistry and Physics, 2018, 18, 14095-14111.	1.9	1,613
2	Drivers of improved PM _{2.5} air quality in China from 2013 to 2017. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24463-24469.	3.3	1,193
3	Transboundary health impacts of transported global air pollution and international trade. Nature, 2017, 543, 705-709.	13.7	737
4	Anthropogenic emission inventories in China: a review. National Science Review, 2017, 4, 834-866.	4.6	580
5	Committed emissions from existing energy infrastructure jeopardize 1.5â€‰Â°C climate target. Nature, 2019, 572, 373-377.	13.7	484
6	Dominant role of emission reduction in PM_{2.5} air quality improvement in Beijing during 2013â€“2017: aÂmodel-based decomposition analysis. Atmospheric Chemistry and Physics, 2019, 19, 6125-6146.	1.9	280
7	Persistent growth of anthropogenic non-methane volatile organic compound (NMVOC) emissions in China during 1990â€“2017: drivers, speciation and ozone formation potential. Atmospheric Chemistry and Physics, 2019, 19, 8897-8913.	1.9	267
8	Impacts of climate change on future air quality and human health in China. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17193-17200.	3.3	219
9	Targeted emission reductions from global super-polluting power plant units. Nature Sustainability, 2018, 1, 59-68.	11.5	215
10	Air quality improvements and health benefits from Chinaâ€™s clean air action since 2013. Environmental Research Letters, 2017, 12, 114020.	2.2	213
11	Recent reduction in NO _x emissions over China: synthesis of satellite observations and emission inventories. Environmental Research Letters, 2016, 11, 114002.	2.2	207
12	Spatiotemporal continuous estimates of PM2.5 concentrations in China, 2000â€“2016: A machine learning method with inputs from satellites, chemical transport model, and ground observations. Environment International, 2019, 123, 345-357.	4.8	207
13	Tracking Air Pollution in China: Near Real-Time PM_{2.5} Retrievals from Multisource Data Fusion. Environmental Science & Technology, 2021, 55, 12106-12115.	4.6	205
14	Drivers of PM2.5 air pollution deaths in China 2002â€“2017. Nature Geoscience, 2021, 14, 645-650.	5.4	197
15	Air quality benefits of achieving carbon neutrality in China. Science of the Total Environment, 2021, 795, 148784.	3.9	175
16	NO_{<i>x</i>} emission trends over Chinese cities estimated from OMI observations during 2005 to 2015. Atmospheric Chemistry and Physics, 2017, 17, 9261-9275.	1.9	146
17	Rapid improvement of PM2.5 pollution and associated health benefits in China during 2013â€“2017. Science China Earth Sciences, 2019, 62, 1847-1856.	2.3	146
18	Pathways of China's PM2.5 air quality 2015â€“2060 in the context of carbon neutrality. National Science Review, 2021, 8, nwab078.	4.6	142

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19	Air pollution characteristics and their relationship with emissions and meteorology in the Yangtze River Delta region during 2014â€“2016. Journal of Environmental Sciences, 2019, 83, 8-20.	3.2	123
20	Current Emissions and Future Mitigation Pathways of Coal-Fired Power Plants in China from 2010 to 2030. Environmental Science & Technology, 2018, 52, 12905-12914.	4.6	122
21	Chemical composition of ambient PM_{2.â€‰5} over China and relationship to precursor emissions during 2005â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 9187-9203.	1.9	117
22	Dynamic projection of anthropogenic emissions in China: methodology and 2015â€“2050 emission pathways under a range of socio-economic, climate policy, and pollution control scenarios. Atmospheric Chemistry and Physics, 2020, 20, 5729-5757.	1.9	117
23	Impact of Chinaâ€™s Air Pollution Prevention and Control Action Plan on PM2.5 chemical composition over eastern China. Science China Earth Sciences, 2019, 62, 1872-1884.	2.3	105
24	Geophysical constraints on the reliability of solar and wind power worldwide. Nature Communications, 2021, 12, 6146.	5.8	90
25	Resolution dependence of uncertainties in gridded emission inventories: a case study in Hebei, China. Atmospheric Chemistry and Physics, 2017, 17, 921-933.	1.9	88
26	Global climate forcing of aerosols embodied in international trade. Nature Geoscience, 2016, 9, 790-794.	5.4	79
27	Air quality and health benefits of Chinaâ€™s emission control policies on coal-fired power plants during 2005â€“2020. Environmental Research Letters, 2019, 14, 094016.	2.2	73
28	Carbon and air pollutant emissions from China's cement industry 1990â€“2015: trends, evolution of technologies, and drivers. Atmospheric Chemistry and Physics, 2021, 21, 1627-1647.	1.9	62
29	Enhancement of PM_{2.5} Concentrations by Aerosolâ€Meteorology Interactions Over China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1179-1194.	1.2	51
30	Decadal changes in anthropogenic source contribution of PM_{2.5} pollution and related health impacts in China, 1990â€“2015. Atmospheric Chemistry and Physics, 2020, 20, 7783-7799.	1.9	49
31	Health co-benefits of climate change mitigation depend on strategic power plant retirements and pollution controls. Nature Climate Change, 2021, 11, 1077-1083.	8.1	49
32	Energy and emission pathways towards PM2.5 air quality attainment in the Beijing-Tianjin-Hebei region by 2030. Science of the Total Environment, 2019, 692, 361-370.	3.9	45
33	Spatial and temporal changes in SO₂ regimes over China in the recent decade and the driving mechanism. Atmospheric Chemistry and Physics, 2018, 18, 18063-18078.	1.9	44
34	Role of climate goals and clean-air policies on reducing future air pollution deaths in China: a modelling study. Lancet Planetary Health, The, 2022, 6, e92-e99.	5.1	44
35	Developing reliable hourly electricity demand data through screening and imputation. Scientific Data, 2020, 7, 155.	2.4	38
36	Early retirement of power plants in climate mitigation scenarios. Environmental Research Letters, 2020, 15, 094064.	2.2	38

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37	A striking growth of CO₂ emissions from the global cement industry driven by new facilities in emerging countries. Environmental Research Letters, 2022, 17, 044007.	2.2	37
38	Global CO₂ uptake by cement from 1930 to 2019. Earth System Science Data, 2021, 13, 1791-1805.	3.7	35
39	Weakening aerosol direct radiative effects mitigate climate penalty on Chinese air quality. Nature Climate Change, 2020, 10, 845-850.	8.1	32
40	Infrastructure Shapes Differences in the Carbon Intensities of Chinese Cities. Environmental Science & Technology, 2018, 52, 6032-6041.	4.6	30
41	Stronger secondary pollution processes despite decrease in gaseous precursors: A comparative analysis of summer 2020 and 2019 in Beijing. Environmental Pollution, 2021, 279, 116923.	3.7	26
42	Reduction in black carbon light absorption due to multi-pollutant emission control during APEC China 2014. Atmospheric Chemistry and Physics, 2018, 18, 10275-10287.	1.9	20
43	Modeling the aging process of black carbon during atmospheric transport using a new approach: a case study in Beijing. Atmospheric Chemistry and Physics, 2019, 19, 9663-9680.	1.9	17
44	Climate effects of Chinaâ€™s efforts to improve its air quality. Environmental Research Letters, 2020, 15, 104052.	2.2	16
45	Comparison of Current and Future PM_{2.5} Air Quality in China Under CMIP6 and DPEC Emission Scenarios. Geophysical Research Letters, 2021, 48, e2021GL093197.	1.5	15
46	Air quality and health benefits of Chinaâ€™s current and upcoming clean air policies. Faraday Discussions, 2021, 226, 584-606.	1.6	13
47	Corrigendum to Anthropogenic emission inventories in China: a review. National Science Review, 2018, 5, 603-603.	4.6	12
48	Improved spatial representation of a highly resolved emission inventory in China: evidence from TROPOMI measurements. Environmental Research Letters, 2021, 16, 084056.	2.2	9
49	Committed Emissions of the U.S. Power Sector, 2000â€“2018. AGU Advances, 2020, 1, e2020AV000162.	2.3	8
50	Effect ofl-Threonine Concentrations on Acetaldehyde Production andglyAGene Expression in Fermented Milk byStreptococcus thermophilus. Food Biotechnology, 2012, 26, 280-292.	0.6	4
51	Evaporation process dominates vehicular NMVOC emissions in China with enlarged contribution from 1990 to 2016. Environmental Research Letters, 2021, 16, 124036.	2.2	4
52	Daily Emission Patterns of Coal-Fired Power Plants in China Based on Multisource Data Fusion. ACS Environmental Au, 2022, 2, 363-372.	3.3	4