

# Xuan Wang

## 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.

30  
papers

863  
citations

11  
h-index

29  
g-index

52  
ext. papers

1,343  
ext. citations

7.4  
avg, IF

4.27  
L-index

#	Paper	IF	Citations
30	Fine particulate matter (PM <sub>2.5</sub> ) trends in China, 2013–2018: separating contributions from anthropogenic emissions and meteorology. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11031-11041	6.8	229
29	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10989-11010	6.8	158
28	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3981-4003	6.8	96
27	Deriving brown carbon from multiwavelength absorption measurements: method and application to AERONET and Aethalometer observations. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12733-12752	6.8	81
26	Exploring the observational constraints on the simulation of brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 635-653	6.8	80
25	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , <b>2021</b> , 14, 77-84	18.3	37
24	Lifecycle of light-absorbing carbonaceous aerosols in the atmosphere. <i>Npj Climate and Atmospheric Science</i> , <b>2020</b> , 3,	8	29
23	Control of particulate nitrate air pollution in China. <i>Nature Geoscience</i> , <b>2021</b> , 14, 389-395	18.3	28
22	Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6497-6507	6.8	22
21	Effects of Anthropogenic Chlorine on PM and Ozone Air Quality in China. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9908-9916	10.3	18
20	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7753-7781	6.8	18
19	Global modeling of cloud water acidity, precipitation acidity, and acid inputs to ecosystems. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12223-12245	6.8	9
18	Improved Mechanistic Model of the Atmospheric Redox Chemistry of Mercury. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14445-14456	10.3	9
17	Spatial and temporal variability of brown carbon in United States: implications for direct radiative effects. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090332	4.9	7
16	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13973-13996	6.8	7
15	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034688	4.4	5
14	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM <sub>2.5</sub> ): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 16775-16791	6.8	4

13	An adaptive method for speeding up the numerical integration of chemical mechanisms in atmospheric chemistry models: application to GEOS-Chem version 12.0.0. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 2475-2486	6.3	4
12	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085838	4.9	3
11	Fine particulate matter (PM <sub>2.5</sub> ) trends in China, 2013-2018: contributions from meteorology <b>2019</b> ,		2
10	Constraining remote oxidation capacity with ATom observations		2
9	Global Impact of Lightning-Produced Oxidants. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL095740	4.9	2
8	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants		2
7	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093808	4.9	2
6	Understanding Sources of Atmospheric Hydrogen Chloride in Coastal Spring and Continental Winter. <i>ACS Earth and Space Chemistry</i> , <b>2021</b> , 5, 2507-2516	3.2	2
5	N <sub>2</sub> O <sub>5</sub> uptake onto saline mineral dust: a potential missing source of tropospheric ClNO <sub>2</sub> in inland China. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 1845-1859	6.8	1
4	The role of chlorine in tropospheric chemistry <b>2018</b> ,		1
3	Effect of sea-salt aerosol on tropospheric bromine chemistry <b>2018</b> ,		1
2	Comprehensive chemical characterization of gaseous I/SVOC emissions from heavy-duty diesel vehicles using two-dimensional gas chromatography time-of-flight mass spectrometry.. <i>Environmental Pollution</i> , <b>2022</b> , 119284	9.3	0
1	Numerical Simulation of Topography Impact on Transport and Source Apportionment on PM <sub>2.5</sub> in a Polluted City in Fenwei Plain. <i>Atmosphere</i> , <b>2022</b> , 13, 233	2.7	