

# Yuxuan 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.

90  
papers

4,871  
citations

37  
h-index

69  
g-index

120  
ext. papers

5,621  
ext. citations

6.9  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
90	NO <sub>x</sub> emission trends for China, 1995–2004: The view from the ground and the view from space. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		386
89	Sulfate-nitrate-ammonium aerosols over China: response to 2000–2015 emission changes of sulfur dioxide, nitrogen oxides, and ammonia. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 2635-2652	6.8	262
88	Nitrogen deposition to the United States: distribution, sources, and processes. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 4539-4554	6.8	212
87	Daily Estimation of Ground-Level PM <sub>2.5</sub> Concentrations over Beijing Using 3 km Resolution MODIS AOD. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12280-8	10.3	203
86	Space-based formaldehyde measurements as constraints on volatile organic compound emissions in east and south Asia and implications for ozone. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		189
85	Enhanced sulfate formation during China's severe winter haze episode in January 2013 missing from current models. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 10,425-10,440	4.4	188
84	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2°/3° horizontal resolution over North America. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 6769-6776	5.3	158
83	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 7423-7438	6.8	146
82	North American pollution outflow and the trapping of convectively lifted pollution by upper-level anticyclone. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		139
81	Evaluating the contribution of changes in isoprene emissions to surface ozone trends over the eastern United States. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		136
80	Seasonal and spatial variability of surface ozone over China: contributions from background and domestic pollution. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3511-3525	6.8	130
79	Potential for wind-generated electricity in China. <i>Science</i> , <b>2009</b> , 325, 1378-80	33.3	124
78	Global chemical composition of ambient fine particulate matter for exposure assessment. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13060-8	10.3	118
77	A nested grid formulation for chemical transport over Asia: Applications to CO. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		118
76	Carbonaceous aerosols in China: top-down constraints on primary sources and estimation of secondary contribution. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 2725-2746	6.8	117
75	Spatial distributions of particle number concentrations in the global troposphere: Simulations, observations, and implications for nucleation mechanisms. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		110
74	CO <sub>2</sub> and its correlation with CO at a rural site near Beijing: implications for combustion efficiency in China. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 8881-8897	6.8	103

73	Source attribution of particulate matter pollution over North China with the adjoint method. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 084011	6.2	92
72	Seasonal and spatial variation of trace elements in multi-size airborne particulate matters of Beijing, China: Mass concentration, enrichment characteristics, source apportionment, chemical speciation and bioavailability. <i>Atmospheric Environment</i> , <b>2014</b> , 99, 257-265	5.3	88
71	Asian emissions of CO and NOx: Constraints from aircraft and Chinese station data. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		87
70	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6107-6123	6.8	82
69	Sensitivity of surface ozone over China to 2000-2050 global changes of climate and emissions. <i>Atmospheric Environment</i> , <b>2013</b> , 75, 374-382	5.3	82
68	Simulating aerosol-radiation-cloud feedbacks on meteorology and air quality over eastern China under severe haze conditions in winter. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 2387-2404	6.8	82
67	Life cycle assessment of CO2 emissions from wind power plants: Methodology and case studies. <i>Renewable Energy</i> , <b>2012</b> , 43, 30-36	8.1	81
66	Seasonal variability of NOx emissions over east China constrained by satellite observations: Implications for combustion and microbial sources. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		77
65	Improved algorithm for MODIS satellite retrievals of aerosol optical thickness over land in dusty atmosphere: Implications for air quality monitoring in China. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 2575-2583	13.2	76
64	Source apportionment of atmospheric mercury pollution in China using the GEOS-Chem model. <i>Environmental Pollution</i> , <b>2014</b> , 190, 166-75	9.3	67
63	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 1357-1371	6.8	63
62	Modeling dust and soluble iron deposition to the South Atlantic Ocean. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		62
61	Improving the accuracy of daily satellite-derived ground-level fine aerosol concentration estimates for North America. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 11971-8	10.3	54
60	Traffic restrictions associated with the Sino-African summit: Reductions of NOx detected from space. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	52
59	Estimating ground-level PM <sub>2.5</sub> in eastern China using aerosol optical depth determined from the GOCI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13133-13144	6.8	51
58	Impact of air pollution control policies on future PM concentrations and their source contributions in China. <i>Journal of Environmental Management</i> , <b>2018</b> , 227, 124-133	7.9	50
57	Winter haze over North China Plain from 2009 to 2016: Influence of emission and meteorology. <i>Environmental Pollution</i> , <b>2018</b> , 242, 1308-1318	9.3	48
56	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface PM Predictions. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 2178-2185	10.3	46

55	Influence of the West Pacific subtropical high on surface ozone daily variability in summertime over eastern China. <i>Atmospheric Environment</i> , <b>2017</b> , 170, 197-204	5.3	43
54	Can a state-of-the-art chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		43
53	Attribution of PM <sub>2.5</sub> exposure in Beijing-Tianjin-Hebei region to emissions: implication to control strategies. <i>Science Bulletin</i> , <b>2017</b> , 62, 957-964	10.6	37
52	Black carbon and its correlation with trace gases at a rural site in Beijing: Top-down constraints from ambient measurements on bottom-up emissions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		37
51	Persistent sensitivity of Asian aerosol to emissions of nitrogen oxides. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1021-1026	4.9	36
50	Satellite detection and model verification of NO <sub>x</sub> emissions from power plants in Northern China. <i>Environmental Research Letters</i> , <b>2010</b> , 5, 044007	6.2	30
49	A quantitative assessment of uncertainties affecting estimates of global mean OH derived from methyl chloroform observations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		28
48	Regional differences in Chinese SO <sub>2</sub> emission control efficiency and policy implications. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6521-6533	6.8	27
47	Photochemical roles of rapid economic growth and potential abatement strategies on tropospheric ozone over South and East Asia in 2030. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9259-9277	6.8	26
46	Adverse effects of increasing drought on air quality via natural processes. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 12827-12843	6.8	26
45	A new approach for monthly updates of anthropogenic sulfur dioxide emissions from space: Application to China and implications for air quality forecasts. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 9931-9938	4.9	24
44	Predicting daily PM concentrations in Texas using high-resolution satellite aerosol optical depth. <i>Science of the Total Environment</i> , <b>2018</b> , 631-632, 904-911	10.2	23
43	Influence of the Bermuda High on interannual variability of summertime ozone in the Houston-Galveston-Brazoria region. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 15265-15276	6.8	23
42	Insignificant effect of climate change on winter haze pollution in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 17489-17496	6.8	23
41	Effects of stratospheric ozone recovery on photochemistry and ozone air quality in the troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 4079-4086	6.8	22
40	Top-down estimate of China's black carbon emissions using surface observations: Sensitivity to observation representativeness and transport model error. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5781-5795	4.4	22
39	Ethane, ethyne and carbon monoxide concentrations in the upper troposphere and lower stratosphere from ACE and GEOS-Chem: a comparison study. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9927-9941	6.8	22
38	Fine particulate matter pollution in North China: Seasonal-spatial variations, source apportionment, sector and regional transport contributions. <i>Environmental Research</i> , <b>2020</b> , 184, 109368	7.9	19

37	Effect of continental sources and sinks on the seasonal and latitudinal gradient of atmospheric carbon dioxide over East Asia. <i>Atmospheric Environment</i> , <b>2013</b> , 79, 853-860	5.3	19
36	A large decline of tropospheric NO in China observed from space by SNPP OMPS. <i>Science of the Total Environment</i> , <b>2019</b> , 675, 337-342	10.2	18
35	New Directions: GEIA's 2020 vision for better air emissions information. <i>Atmospheric Environment</i> , <b>2013</b> , 81, 710-712	5.3	18
34	Spatiotemporal Variations of Ambient Concentrations of Trace Elements in a Highly Polluted Region of China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4186-4202	4.4	16
33	The Biogeographic Pattern of Microbial Functional Genes along an Altitudinal Gradient of the Tibetan Pasture. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 976	5.7	15
32	Variations of surface O <sub>3</sub> in August at a rural site near Shanghai: influences from the West Pacific subtropical high and anthropogenic emissions. <i>Environmental Science and Pollution Research</i> , <b>2012</b> , 19, 4016-29	5.1	15
31	Impact of the 2011 Southern U.S. Drought on Ground-Level Fine Aerosol Concentration in Summertime*. <i>Journals of the Atmospheric Sciences</i> , <b>2015</b> , 72, 1075-1093	2.1	14
30	Changes in tropospheric ozone levels over the Three Representative Regions of China observed from space by the Tropospheric Emission Spectrometer (TES), 2005-2010. <i>Science Bulletin</i> , <b>2012</b> , 57, 2865-2871		14
29	Human and animal wastes: Implications for atmospheric N <sub>2</sub> O and NO <sub>x</sub> . <i>Global Biogeochemical Cycles</i> , <b>2005</b> , 19, n/a-n/a	5.9	14
28	De-coupling interannual variations of vertical dust extinction over the Taklimakan Desert during 2007-2016 using CALIOP. <i>Science of the Total Environment</i> , <b>2018</b> , 633, 608-617	10.2	13
27	Mapping daily PM at 500 m resolution over Beijing with improved hazy day performance. <i>Science of the Total Environment</i> , <b>2019</b> , 659, 410-418	10.2	13
26	Changes of Emission Sources to Nitrate Aerosols in Beijing After the Clean Air Actions: Evidence From Dual Isotope Compositions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031998	4.4	12
25	Year round measurements of O <sub>3</sub> and CO at a rural site near Beijing: variations in their correlations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2010</b> , 62, 228-241	3.3	11
24	Influence of Cold Fronts on Variability of Daily Surface O <sub>3</sub> over the Houston-Galveston-Brazoria Area in Texas USA during 2003-2016. <i>Atmosphere</i> , <b>2018</b> , 9, 159	2.7	9
23	Variations of Siberian High Position under climate change: Impacts on winter pollution over north China. <i>Atmospheric Environment</i> , <b>2018</b> , 189, 227-234	5.3	8
22	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 10379-10400	6.8	8
21	Clustering Surface Ozone Diurnal Cycles to Understand the Impact of Circulation Patterns in Houston, TX. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 13457-13474	4.4	8
20	Assessing biotic contributions to CO <sub>2</sub> fluxes in northern China using the Vegetation, Photosynthesis and Respiration Model (VPRM-CHINA) and observations from 2005 to 2009. <i>Biogeosciences</i> , <b>2018</b> , 15, 6713-6729	4.6	6

19	Transport of Central American Fire Emissions to the U.S. Gulf Coast: Climatological Pathways and Impacts on Ozone and PM <sub>2.5</sub> . <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 8344	4.4	5
18	Identification of Sea Breeze Recirculation and Its Effects on Ozone in Houston, TX, During DISCOVER-AQ 2013. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033165	4.4	5
17	Observational evidence for direct uptake of ozone in China by Asian dust in springtime. <i>Atmospheric Environment</i> , <b>2018</b> , 186, 45-55	5.3	4
16	Accelerating carbon uptake in the Northern Hemisphere: evidence from the interhemispheric difference of atmospheric CO <sub>2</sub> concentrations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2013</b> , 65, 20334	3.3	4
15	Surface MDA8 ozone variability during cold front events over the contiguous United States during 2003–2017. <i>Atmospheric Environment</i> , <b>2019</b> , 213, 359-366	5.3	3
14	Effects of a remotely sensed land cover dataset with high spatial resolution on the simulation of secondary air pollutants over china using the nested-grid GEOS-chem chemical transport model. <i>Advances in Atmospheric Sciences</i> , <b>2014</b> , 31, 179-187	2.9	3
13	Review on the applications of Tropospheric Emissions Spectrometer to air-quality research: Perspectives for China. <i>Frontiers of Environmental Science and Engineering in China</i> , <b>2010</b> , 4, 12-19		3
12	Sensitivity of PM to NO emissions and meteorology in North China based on observations. <i>Science of the Total Environment</i> , <b>2021</b> , 766, 142275	10.2	3
11	Evaluating the Response of Summertime Surface Sulfate to Hydroclimate Variations in the Continental United States: Role of Meteorological Inputs in the GEOS-Chem Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 1662-1679	4.4	2
10	Evaluating China's anthropogenic CO <sub>2</sub> emissions inventories: a northern China case study using continuous surface observations from 2005 to 2009. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3569-3588	6.8	2
9	Quantifying the effects of environmental factors on wildfire burned area in the south central US using integrated machine learning techniques. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 11065-11087	6.8	2
8	Evaluating Drought Responses of Surface Ozone Precursor Proxies: Variations With Land Cover Type, Precipitation, and Temperature. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091520	4.9	2
7	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: Air quality model assessment using observations of sulfate oxygen isotopes in Beijing <b>2019</b> ,		2
6	Drought Impacts on Secondary Organic Aerosol: A Case Study in the Southeast United States. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 242-250	10.3	2
5	Possible heterogeneous hydroxymethanesulfonate (HMS) chemistry in northern China winter haze and implications for rapid sulfate formation <b>2018</b> ,		2
4	Fine particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models <b>2018</b> ,		2
3	Links Between the Large-Scale Circulation and Daily Air Quality Over Central Eastern China During Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 7147	4.4	1
2	Effect of climate change on winter haze pollution in Beijing: uncertain and likely small <b>2018</b> ,		1

- 1 Variations of Siberian High Position under climate change: Impacts on winter pollution over North China **2021**, 169-190