

Yuxuan Wang

List of Publications by Year in descending order

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90
papers

6,226
citations

81900

39
h-index

76900

74
g-index

120
all docs

120
docs citations

120
times ranked

6271
citing authors

#	ARTICLE	IF	CITATIONS
1	NO _x emission trends for China, 1995–2004: The view from the ground and the view from space. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	422
2	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> , 2013, 13, 2635-2652.	4.9	313
3	Nitrogen deposition to the United States: distribution, sources, and processes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4539-4554.	4.9	256
4	Daily Estimation of Ground-Level PM _{2.5} Concentrations over Beijing Using 3 km Resolution MODIS AOD. <i>Environmental Science & Technology</i> , 2015, 49, 12280-12288.	10.0	240
5	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> , 2014, 119, 10,425.	3.3	235
6	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> , 2007, 112, .	3.3	232
7	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7423-7438.	4.9	208
8	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2°–2/3° horizontal resolution over North America. <i>Atmospheric Environment</i> , 2011, 45, 6769-6776.	4.1	190
9	Seasonal and spatial variability of surface ozone over China: contributions from background and domestic pollution. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3511-3525.	4.9	169
10	Global Chemical Composition of Ambient Fine Particulate Matter for Exposure Assessment. <i>Environmental Science & Technology</i> , 2014, 48, 13060-13068.	10.0	164
11	Evaluating the contribution of changes in isoprene emissions to surface ozone trends over the eastern United States. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	163
12	Potential for Wind-Generated Electricity in China. <i>Science</i> , 2009, 325, 1378-1380.	12.6	163
13	North American pollution outflow and the trapping of convectively lifted pollution by upper-level anticyclone. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	156
14	A nested grid formulation for chemical transport over Asia: Applications to CO. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	141
15	Carbonaceous aerosols in China: top-down constraints on primary sources and estimation of secondary contribution. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2725-2746.	4.9	137
16	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> , 2019, 19, 6107-6123.	4.9	137
17	Spatial distributions of particle number concentrations in the global troposphere: Simulations, observations, and implications for nucleation mechanisms. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	129
18	CO ₂ and its correlation with CO at a rural site near Beijing: implications for combustion efficiency in China. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8881-8897.	4.9	125

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19	Life cycle assessment of CO ₂ emissions from wind power plants: Methodology and case studies. <i>Renewable Energy</i> , 2012, 43, 30-36.	8.9	118
20	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> , 2014, 99, 257-265.	4.1	117
21	Source attribution of particulate matter pollution over North China with the adjoint method. <i>Environmental Research Letters</i> , 2015, 10, 084011.	5.2	117
22	Sensitivity of surface ozone over China to 2000-2050 global changes of climate and emissions. <i>Atmospheric Environment</i> , 2013, 75, 374-382.	4.1	107
23	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> , 2015, 15, 2387-2404.	4.9	107
24	Asian emissions of CO and NO _x : Constraints from aircraft and Chinese station data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	97
25	Seasonal variability of NO _x emissions over east China constrained by satellite observations: Implications for combustion and microbial sources. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	97
26	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1357-1371.	4.9	97
27	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> , 2010, 114, 2575-2583.	11.0	86
28	Impact of air pollution control policies on future PM _{2.5} concentrations and their source contributions in China. <i>Journal of Environmental Management</i> , 2018, 227, 124-133.	7.8	82
29	Source apportionment of atmospheric mercury pollution in China using the GEOS-Chem model. <i>Environmental Pollution</i> , 2014, 190, 166-175.	7.5	78
30	Influence of the West Pacific subtropical high on surface ozone daily variability in summertime over eastern China. <i>Atmospheric Environment</i> , 2017, 170, 197-204.	4.1	76
31	Modeling dust and soluble iron deposition to the South Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	72
32	Winter haze over North China Plain from 2009 to 2016: Influence of emission and meteorology. <i>Environmental Pollution</i> , 2018, 242, 1308-1318.	7.5	72
33	Improving the Accuracy of Daily Satellite-Derived Ground-Level Fine Aerosol Concentration Estimates for North America. <i>Environmental Science & Technology</i> , 2012, 46, 11971-11978.	10.0	66
34	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface PM _{2.5} Predictions. <i>Environmental Science & Technology</i> , 2017, 51, 2178-2185.	10.0	64
35	Traffic restrictions associated with the Sino-African summit: Reductions of NO _x detected from space. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	63
36	Estimating ground-level PM _{2.5} in eastern China using aerosol optical depth determined from the GOCI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13133-13144.	4.9	61

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37	Adverse effects of increasing drought on air quality via natural processes. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12827-12843.	4.9	48
38	Can a state of the art chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	47
39	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
40	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> , 2011, 116, n/a-n/a.	3.3	45
41	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> , 2020, 125, e2019JD031998.	3.3	41
42	Persistent sensitivity of Asian aerosol to emissions of nitrogen oxides. <i>Geophysical Research Letters</i> , 2013, 40, 1021-1026.	4.0	40
43	Insignificant effect of climate change on winter haze pollution in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17489-17496.	4.9	37
44	Influence of the Bermuda High on interannual variability of summertime ozone in the Houston–Galveston–Brazoria region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15265-15276.	4.9	36
45	Predicting daily PM _{2.5} concentrations in Texas using high-resolution satellite aerosol optical depth. <i>Science of the Total Environment</i> , 2018, 631-632, 904-911.	8.0	36
46	Satellite detection and model verification of NO _x emissions from power plants in Northern China. <i>Environmental Research Letters</i> , 2010, 5, 044007.	5.2	33
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> , 2014, 14, 9259-9277.	4.9	33
48	Fine particulate matter pollution in North China: Seasonal-spatial variations, source apportionment, sector and regional transport contributions. <i>Environmental Research</i> , 2020, 184, 109368.	7.5	32
49	A quantitative assessment of uncertainties affecting estimates of global mean OH derived from methyl chloroform observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
50	Regional differences in Chinese SO ₂ emission control efficiency and policy implications. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6521-6533.	4.9	29
51	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> , 2016, 43, 9931-9938.	4.0	29
52	Effects of stratospheric ozone recovery on photochemistry and ozone air quality in the troposphere. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4079-4086.	4.9	28
53	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> , 2011, 11, 9927-9941.	4.9	26
54	New Directions: GEIA's 2020 vision for better air emissions information. <i>Atmospheric Environment</i> , 2013, 81, 710-712.	4.1	25

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55	Effect of continental sources and sinks on the seasonal and latitudinal gradient of atmospheric carbon dioxide over East Asia. <i>Atmospheric Environment</i> , 2013, 79, 853-860.	4.1	25
56	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> , 2013, 118, 5781-5795.	3.3	24
57	A large decline of tropospheric NO ₂ in China observed from space by SNPP OMPS. <i>Science of the Total Environment</i> , 2019, 675, 337-342.	8.0	23
58	The Biogeographic Pattern of Microbial Functional Genes along an Altitudinal Gradient of the Tibetan Pasture. <i>Frontiers in Microbiology</i> , 2017, 8, 976.	3.5	22
59	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> , 2020, 125, e2020JD033165.	3.3	22
60	De-coupling interannual variations of vertical dust extinction over the Taklimakan Desert during 2007-2016 using CALIOP. <i>Science of the Total Environment</i> , 2018, 633, 608-617.	8.0	21
61	Clustering Surface Ozone Diurnal Cycles to Understand the Impact of Circulation Patterns in Houston, TX. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13457-13474.	3.3	21
62	Variations of surface O ₃ 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> , 2012, 19, 4016-4029.	5.3	20
63	Spatiotemporal Variations of Ambient Concentrations of Trace Elements in a Highly Polluted Region of China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4186-4202.	3.3	19
64	Human and animal wastes: Implications for atmospheric N ₂ O and NO _x . <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	18
65	Impact of the 2011 Southern U.S. Drought on Ground-Level Fine Aerosol Concentration in Summertime*. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1075-1093.	1.7	18
66	Mapping daily PM _{2.5} at 500-m resolution over Beijing with improved hazy day performance. <i>Science of the Total Environment</i> , 2019, 659, 410-418.	8.0	16
67	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> , 2012, 57, 2865-2871.	1.7	15
68	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> , 2020, 20, 10379-10400.	4.9	15
69	Transport of Central American Fire Emissions to the U.S. Gulf Coast: Climatological Pathways and Impacts on Ozone and PM _{2.5} . <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8344-8361.	3.3	14
70	Assessing biotic contributions to CO ₂ fluxes in northern China using the Vegetation, Photosynthesis and Respiration Model (VPRM-CHINA) and observations from 2005 to 2009. <i>Biogeosciences</i> , 2018, 15, 6713-6729.	3.3	13
71	Year round measurements of O ₃ and CO at a rural site near Beijing: variations in their correlations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010, 62, 228-241.	1.6	11
72	Influence of Cold Fronts on Variability of Daily Surface O ₃ over the Houston-Galveston-Brazoria Area in Texas USA during 2003-2016. <i>Atmosphere</i> , 2018, 9, 159.	2.3	11

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73	Variations of Siberian High Position under climate change: Impacts on winter pollution over north China. <i>Atmospheric Environment</i> , 2018, 189, 227-234.	4.1	11
74	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> , 2020, 20, 11065-11087.	4.9	11
75	Evaluating Drought Responses of Surface Ozone Precursor Proxies: Variations With Land Cover Type, Precipitation, and Temperature. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091520.	4.0	9
76	Observational evidence for direct uptake of ozone in China by Asian dust in springtime. <i>Atmospheric Environment</i> , 2018, 186, 45-55.	4.1	7
77	Links Between the Large-scale Circulation and Daily Air Quality Over Central Eastern China During Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7147-7163.	3.3	6
78	Sensitivity of PM _{2.5} to NO _x emissions and meteorology in North China based on observations. <i>Science of the Total Environment</i> , 2021, 766, 142275.	8.0	6
79	Long-term trend in surface ozone in Houston-Galveston-Brazoria: Sectoral contributions based on changes in volatile organic compounds. <i>Environmental Pollution</i> , 2022, 308, 119647.	7.5	6
80	Accelerating carbon uptake in the Northern Hemisphere: evidence from the interhemispheric difference of atmospheric CO ₂ concentrations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 20334.	1.6	5
81	Evaluating China's anthropogenic CO ₂ emissions inventories: a northern China case study using continuous surface observations from 2005 to 2009. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3569-3588.	4.9	5
82	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> , 2014, 31, 179-187.	4.3	4
83	Surface MDA8 ozone variability during cold front events over the contiguous United States during 2003-2017. <i>Atmospheric Environment</i> , 2019, 213, 359-366.	4.1	4
84	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> , 2019, 124, 1662-1679.	3.3	4
85	Spatial Variation of Surface O ₃ Responses to Drought Over the Contiguous United States During Summertime: Role of Precursor Emissions and Ozone Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4
86	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> , 2010, 4, 12-19.	0.8	3
87	Drought Impacts on Secondary Organic Aerosol: A Case Study in the Southeast United States. <i>Environmental Science & Technology</i> , 2019, 53, 242-250.	10.0	3
88	Reduced surface fine dust under droughts over the southeastern United States during summertime: observations and CMIP6 model simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7843-7859.	4.9	3
89	Variations of Siberian High Position under climate change: Impacts on winter pollution over North China. , 2021, , 169-190.		0
90	Atmospheric Modeling of Pollutant Concentrations. , 2013, , 263-290.		0