Yuxuan Wang

List of Publications by Year
in descending order

90	6,226	81900	76900
papers	citations	39	74
		h-index	g-index

120	120	120	6271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Accelerating carbon uptake in the Northern Hemisphere: evidence from the interhemispheric difference of atmospheric CO_2 concentrations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 20334.	1.6	5
2	Spatial Variation of Surface O_3 Responses to Drought Over the Contiguous United States During Summertime: Role of Precursor Emissions and Ozone Chemistry. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
3	Reduced surface fine dust under droughts over the southeastern United States during summertime: observations and CMIP6 model simulations. Atmospheric Chemistry and Physics, 2022, 22, 7843-7859.	4.9	3
4	Long-term trend in surface ozone in Houston-Galveston-Brazoria: Sectoral contributions based on changes in volatile organic compounds. Environmental Pollution, 2022, 308, 119647.	7.5	6
5	Sensitivity of PM2.5 to NOx emissions and meteorology in North China based on observations. Science of the Total Environment, 2021, 766, 142275.	8.0	6
6	Variations of Siberian High Position under climate change: Impacts on winter pollution over North China. , 2021, , 169-190.		0
7	Evaluating Drought Responses of Surface Ozone Precursor Proxies: Variations With Land Cover Type, Precipitation, and Temperature. Geophysical Research Letters, 2021, 48, e2020GL091520.	4.0	9
8	Identification of Sea Breeze Recirculation and Its Effects on Ozone in Houston, TX, During DISCOVER–AQ 2013. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033165.	3.3	22
9	Fine particulate matter pollution in North China: Seasonal-spatial variations, source apportionment, sector and regional transport contributions. Environmental Research, 2020, 184, 109368.	7.5	32
10	Evaluating China's anthropogenic CO_2 emissions inventories: a northern China case study using continuous surface observations from 2005 to 2009. Atmospheric Chemistry and Physics, 2020, 20, 3569-3588.	4.9	5
11	Changes of Emission Sources to Nitrate Aerosols in Beijing After the Clean Air Actions: Evidence From Dual Isotope Compositions. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031998.	3.3	41
12	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. Atmospheric Chemistry and Physics, 2020, 20, 10379-10400.	4.9	15
13	Quantifying the effects of environmental factors on wildfire burned area in the south central US using integrated machine learning techniques. Atmospheric Chemistry and Physics, 2020, 20, 11065-11087.	4.9	11
14	Surface MDA8 ozone variability during cold front events over the contiguous United States during 2003–2017. Atmospheric Environment, 2019, 213, 359-366.	4.1	4
15	A large decline of tropospheric NO2 in China observed from space by SNPP OMPS. Science of the Total Environment, 2019, 675, 337-342.	8.0	23
16	Links Between the Large–Scale Circulation and Daily Air Quality Over Central Eastern China During Winter. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7147-7163.	3.3	6
17	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. Atmospheric Chemistry and Physics, 2019, 19, 6107-6123.	4.9	137
18	Spatiotemporal Variations of Ambient Concentrations of Trace Elements in a Highly Polluted Region of China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4186-4202.	3.3	19

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19	Evaluating the Response of Summertime Surface Sulfate to Hydroclimate Variations in the Continental United States: Role of Meteorological Inputs in the GEOS‑Chem Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1662-1679.	3.3	4
20	Possible heterogeneous chemistry of hydroxymethanesulfonate (HMS) in northern China winter haze. Atmospheric Chemistry and Physics, 2019, 19, 1357-1371.	4.9	97
21	Clustering Surface Ozone Diurnal Cycles to Understand the Impact of Circulation Patterns in Houston, TX. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13457-13474.	3.3	21
22	Mapping daily PM2.5 at 500‑m resolution over Beijing with improved hazy day performance. Science of the Total Environment, 2019, 659, 410-418.	8.0	16
23	Drought Impacts on Secondary Organic Aerosol: A Case Study in the Southeast United States. Environmental Science & Technology, 2019, 53, 242-250.	10.0	3
24	Predicting daily PM2.5 concentrations in Texas using high-resolution satellite aerosol optical depth. Science of the Total Environment, 2018, 631-632, 904-911.	8.0	36
25	De-coupling interannual variations of vertical dust extinction over the Taklimakan Desert during 2007–2016 using CALIOP. Science of the Total Environment, 2018, 633, 608-617.	8.0	21
26	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. Biogeosciences, 2018, 15, 6713-6729.	3.3	13
27	Insignificant effect of climate change on winter haze pollution in Beijing. Atmospheric Chemistry and Physics, 2018, 18, 17489-17496.	4.9	37
28	Fine-particle pH for Beijing winter haze as inferred from different thermodynamic equilibrium models. Atmospheric Chemistry and Physics, 2018, 18, 7423-7438.	4.9	208
29	Impact of air pollution control policies on future PM2.5 concentrations and their source contributions in China. Journal of Environmental Management, 2018, 227, 124-133.	7.8	82
30	Transport of Central American Fire Emissions to the U.S. Gulf Coast: Climatological Pathways and Impacts on Ozone and $PM_{2.5}$. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8344-8361.	3.3	14
31	Influence of Cold Fronts on Variability of Daily Surface O3 over the Houston-Galveston-Brazoria Area in Texas USA during 2003–2016. Atmosphere, 2018, 9, 159.	2.3	11
32	Variations of Siberian High Position under climate change: Impacts on winter pollution over north China. Atmospheric Environment, 2018, 189, 227-234.	4.1	11
33	Winter haze over North China Plain from 2009 to 2016: Influence of emission and meteorology. Environmental Pollution, 2018, 242, 1308-1318.	7.5	72
34	Observational evidence for direct uptake of ozone in China by Asian dust in springtime. Atmospheric Environment, 2018, 186, 45-55.	4.1	7
35	Estimates of Health Impacts and Radiative Forcing in Winter Haze in Eastern China through Constraints of Surface $PM_{2.5}$ Predictions. Environmental Science & Technology, 2017, 51, 2178-2185.	10.0	64
36	Attribution of PM2.5 exposure in Beijing–Tianjin–Hebei region to emissions: implication to control strategies. Science Bulletin, 2017, 62, 957-964.	9.0	46

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37	Influence of the West Pacific subtropical high on surface ozone daily variability in summertime over eastern China. Atmospheric Environment, 2017, 170, 197-204.	4.1	76
38	Adverse effects of increasing drought on air quality via natural processes. Atmospheric Chemistry and Physics, 2017, 17, 12827-12843.	4.9	48
39	The Biogeographic Pattern of Microbial Functional Genes along an Altitudinal Gradient of the Tibetan Pasture. Frontiers in Microbiology, 2017, 8, 976.	3.5	22
40	A new approach for monthly updates of anthropogenic sulfur dioxide emissions from space: Application to China and implications for air quality forecasts. Geophysical Research Letters, 2016, 43, 9931-9938.	4.0	29
41	Influence of the Bermuda High on interannual variability of summertime ozone in the Houston–Galveston–Brazoria region. Atmospheric Chemistry and Physics, 2016, 16, 15265-15276.	4.9	36
42	Regional differences in Chinese SO$_2$ emission control efficiency and policy implications. Atmospheric Chemistry and Physics, 2015, 15, 6521-6533.	4.9	29
43	Estimating ground-level PM$_{2.5}$ in eastern China using aerosol optical depth determined from the GOCI satellite instrument. Atmospheric Chemistry and Physics, 2015, 15, 13133-13144.	4.9	61
44	Simulating aerosol–radiation–cloud feedbacks on meteorology and air quality over eastern China under severe haze conditionsin winter. Atmospheric Chemistry and Physics, 2015, 15, 2387-2404.	4.9	107
45	Impact of the 2011 Southern U.S. Drought on Ground-Level Fine Aerosol Concentration in Summertime*. Journals of the Atmospheric Sciences, 2015, 72, 1075-1093.	1.7	18
46	Source attribution of particulate matter pollution over North China with the adjoint method. Environmental Research Letters, 2015, 10, 084011.	5.2	117
47	Daily Estimation of Ground-Level PM$_{2.5}$ Concentrations over Beijing Using 3 km Resolution MODIS AOD. Environmental Science & Technology, 2015, 49, 12280-12288.	10.0	240
48	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. Advances in Atmospheric Sciences, 2014, 31, 179-187.	4.3	4
49	Source apportionment of atmospheric mercury pollution in China using the GEOS-Chem model. Environmental Pollution, 2014, 190, 166-175.	7.5	78
50	Global Chemical Composition of Ambient Fine Particulate Matter for Exposure Assessment. Environmental Science & Technology, 2014, 48, 13060-13068.	10.0	164
51	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. Atmospheric Environment, 2014, 99, 257-265.	4.1	117
52	Enhanced sulfate formation during China's severe winter haze episode in January 2013 missing from current models. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,425.	3.3	235
53	Effects of stratospheric ozone recovery on photochemistry and ozone air quality in the troposphere. Atmospheric Chemistry and Physics, 2014, 14, 4079-4086.	4.9	28
54	Photochemical roles of rapid economic growth and potential abatement strategies on tropospheric ozone over South and East Asia in 2030. Atmospheric Chemistry and Physics, 2014, 14, 9259-9277.	4.9	33

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55	Sensitivity of surface ozone over China to 2000â€"2050 global changes of climate and emissions. Atmospheric Environment, 2013, 75, 374-382.	4.1	107
56	New Directions: GEIA's 2020 vision for better air emissions information. Atmospheric Environment, 2013, 81, 710-712.	4.1	25
57	Effect of continental sources and sinks on the seasonal and latitudinal gradient of atmospheric carbon dioxide over East Asia. Atmospheric Environment, 2013, 79, 853-860.	4.1	25
58	Sulfate-nitrate-ammonium aerosols over China: response to 2000â€"2015 emission changes of sulfur dioxide, nitrogen oxides, and ammonia. Atmospheric Chemistry and Physics, 2013, 13, 2635-2652.	4.9	313
59	Persistent sensitivity of Asian aerosol to emissions of nitrogen oxides. Geophysical Research Letters, 2013, 40, 1021-1026.	4.0	40
60	Topâ€down estimate of China's black carbon emissions using surface observations: Sensitivity to observation representativeness and transport model error. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5781-5795.	3.3	24
61	Atmospheric Modeling of Pollutant Concentrations. , 2013, , 263-290.		0
62	Carbonaceous aerosols in China: top-down constraints on primary sources and estimation of secondary contribution. Atmospheric Chemistry and Physics, 2012, 12, 2725-2746.	4.9	137
63	Nitrogen deposition to the United States: distribution, sources, and processes. Atmospheric Chemistry and Physics, 2012, 12, 4539-4554.	4.9	256
64	Variations of surface O3 in August at a rural site near Shanghai: influences from the West Pacific subtropical high and anthropogenic emissions. Environmental Science and Pollution Research, 2012, 19, 4016-4029.	5.3	20
65	Improving the Accuracy of Daily Satellite-Derived Ground-Level Fine Aerosol Concentration Estimates for North America. Environmental Science & Technology, 2012, 46, 11971-11978.	10.0	66
66	Changes in tropospheric ozone levels over the Three Representative Regions of China observed from space by the Tropospheric Emission Spectrometer (TES), 2005â€"2010. Science Bulletin, 2012, 57, 2865-2871.	1.7	15
67	Life cycle assessment of CO2 emissions from wind power plants: Methodology and case studies. Renewable Energy, 2012, 43, 30-36.	8.9	118
68	Can a â€œstate of the artâ€•chemistry transport model simulate Amazonian tropospheric chemistry?. Journal of Geophysical Research, 2011, 116, .	3.3	47
69	Black carbon and its correlation with trace gases at a rural site in Beijing: Top-down constraints from ambient measurements on bottom-up emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	45
70	Seasonal and spatial variability of surface ozone over China: contributions from background and domestic pollution. Atmospheric Chemistry and Physics, 2011, 11, 3511-3525.	4.9	169
71	Ethane, ethyne and carbon monoxide concentrations in the upper troposphere and lower stratosphere from ACE and GEOS-Chem: a comparison study. Atmospheric Chemistry and Physics, 2011, 11, 9927-9941.	4.9	26
72	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2Â°ÂÃ—Â2/3Â° horizontal resolution over North America. Atmospheric Environment, 2011, 45, 6769-6776.	4.1	190

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73	Spatial distributions of particle number concentrations in the global troposphere: Simulations, observations, and implications for nucleation mechanisms. Journal of Geophysical Research, 2010, 115, .	3.3	129
74	Review on the applications of Tropospheric Emissions Spectrometer to air-quality research: Perspectives for China. Frontiers of Environmental Science and Engineering in China, 2010, 4, 12-19.	0.8	3
75	Improved algorithm for MODIS satellite retrievals of aerosol optical thickness over land in dusty atmosphere: Implications for air quality monitoring in China. Remote Sensing of Environment, 2010, 114, 2575-2583.	11.0	86
76	Year round measurements of O3 and CO at a rural site near Beijing: variations in their correlations. Tellus, Series B: Chemical and Physical Meteorology, 2010, 62, 228-241.	1.6	11
77	Satellite detection and model verification of NO $_x$ emissions from power plants in Northern China. Environmental Research Letters, 2010, 5, 044007.	5.2	33
78	CO_2 and its correlation with CO at a rural site near Beijing: implications for combustion efficiency in China. Atmospheric Chemistry and Physics, 2010, 10, 8881-8897.	4.9	125
79	Modeling dust and soluble iron deposition to the South Atlantic Ocean. Journal of Geophysical Research, 2010, 115, .	3.3	72
80	Potential for Wind-Generated Electricity in China. Science, 2009, 325, 1378-1380.	12.6	163
81	A quantitative assessment of uncertainties affecting estimates of global mean OH derived from methyl chloroform observations. Journal of Geophysical Research, 2008, 113, .	3.3	30
82	Seasonal variability of NOxemissions over east China constrained by satellite observations: Implications for combustion and microbial sources. Journal of Geophysical Research, 2007, 112, .	3.3	97
83	Space-based formaldehyde measurements as constraints on volatile organic compound emissions in east and south Asia and implications for ozone. Journal of Geophysical Research, 2007, 112, .	3.3	232
84	Traffic restrictions associated with the Sino-African summit: Reductions of NOxdetected from space. Geophysical Research Letters, 2007, 34, .	4.0	63
85	NO$_x$ emission trends for China, 1995–2004: The view from the ground and the view from space. Journal of Geophysical Research, 2007, 112, .	3.3	422
86	Human and animal wastes: Implications for atmospheric N2O and NOx. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	18
87	North American pollution outflow and the trapping of convectively lifted pollution by upper-level anticyclone. Journal of Geophysical Research, 2005, 110, .	3.3	156
88	Evaluating the contribution of changes in isoprene emissions to surface ozone trends over the eastern United States. Journal of Geophysical Research, 2005, 110, .	3.3	163
89	A nested grid formulation for chemical transport over Asia: Applications to CO. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	141
90	Asian emissions of CO and NOx: Constraints from aircraft and Chinese station data. Journal of Geophysical Research, 2004, 109, .	3.3	97