Yuhang Wang

List of Publications by Citations

192 papers	8,653 citations	50 h-index	87 g-index
230 ext. papers	9,842 ext. citations	6.4 avg, IF	5.99 L-index

#	Paper	IF	Citations
192	Global simulation of tropospheric O3-NO x -hydrocarbon chemistry: 1. Model formulation. *Journal of Geophysical Research*, **1998**, 103, 10713-10725		461
191	Aerosol and monsoon climate interactions over Asia. *Reviews of Geophysics*, **2016**, 54, 866-929	23.1	412
190	Global distribution and trends of tropospheric ozone: An observation-based review. *Elementa*, **2014** , 2,	3.6	292
189	Climate forcings in Goddard Institute for Space Studies SI2000 simulations. *Journal of Geophysical Research*, **2002**, 107, ACL 2-1		270
188	Global simulation of tropospheric O3-NO x -hydrocarbon chemistry: 3. Origin of tropospheric ozone and effects of nonmethane hydrocarbons. *Journal of Geophysical Research*, **1998**, 103, 10757-10767		228
187	Anthropogenic forcing on tropospheric ozone and OH since preindustrial times. *Journal of Geophysical Research*, **1998**, 103, 31123-31135		196
186	Long-term trend of surface ozone at a regional background station in eastern China 1991–2006: enhanced variability. *Atmospheric Chemistry and Physics*, **2008**, 8, 2595-2607	6.8	189
185	Global simulation of tropospheric O3-NO x -hydrocarbon chemistry: 2. Model evaluation and global ozone budget. *Journal of Geophysical Research*, **1998**, 103, 10727-10755		182
184	Indirect validation of tropospheric nitrogen dioxide retrieved from the OMI satellite instrument: Insight into the seasonal variation of nitrogen oxides at northern midlatitudes. *Journal of Geophysical Research*, **2010**, 115,		181
183	Ozone air quality during the 2008 Beijing Olympics: effectiveness of emission restrictions. *Atmospheric Chemistry and Physics*, **2009**, 9, 5237-5251	6.8	168
182	Source attribution and interannual variability of Arctic pollution in spring constrained by aircraft (ARCTAS, ARCPAC) and satellite (AIRS) observations of carbon monoxide. *Atmospheric Chemistry and Physics*, **2010**, 10, 977-996	6.8	168
181	Seasonal budgets of reactive nitrogen species and ozone over the United States, and export fluxes to the global atmosphere. *Journal of Geophysical Research*, **1998**, 103, 13435-13450		142
180	Arctic sea ice, Eurasia snow, and extreme winter haze in China. *Science Advances*, **2017**, 3, e1602751	14.3	141
179	Ambient volatile organic compounds and their effect on ozone production in Wuhan, central China. *Science of the Total Environment*, **2016**, 541, 200-209	10.2	139
178	Seasonal and spatial variability of surface ozone over China: contributions from background and domestic pollution. *Atmospheric Chemistry and Physics*, **2011**, 11, 3511-3525	6.8	130
177	Source apportionment of PM2.5: Comparing PMF and CMB results for four ambient monitoring sites in the southeastern United States. *Atmospheric Environment*, **2008**, 42, 4126-4137	5.3	130
176	Nitric oxide production by simulated lightning: Dependence on current, energy, and pressure. *Journal of Geophysical Research*, **1998**, 103, 19149-19159		125

175	Summertime photochemistry during CAREBeijing-2007: RO_x budgets and O₃ formation. *Atmospheric Chemistry and Physics*, **2012**, 12, 7737-7752	6.8	123
174	On the origin of tropospheric ozone and NOx over the tropical South Pacific. *Journal of Geophysical Research*, **1999**, 104, 5829-5843		123
173	Constraining global isoprene emissions with Global Ozone Monitoring Experiment (GOME) formaldehyde column measurements. *Journal of Geophysical Research*, **2005**, 110,		119
172	NOx Emission Reduction and Recovery during COVID-19 in East China. *Atmosphere*, **2020**, 11, 433	2.7	115
171	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. *Nature Geoscience*, **2017**, 10, 486-489	18.3	114
170	Sources and chemistry of NOx in the upper troposphere over the United States. *Geophysical Research Letters*, **1998**, 25, 1705-1708	4.9	109
169	Assimilated inversion of NOx emissions over east Asia using OMI NO2 column measurements. *Geophysical Research Letters*, **2009**, 36,	4.9	104
168	Atmospheric aerosol over two urban–rural pairs in the southeastern United States: Chemical composition and possible sources. *Atmospheric Environment*, **2005**, 39, 4453-4470	5.3	104
167	Climatologies of NOxx and NOy: A comparison of data and models. *Atmospheric Environment*, **1997**, 31, 1851-1904	5.3	99
166	Characteristics and sources of PM2.5 and carbonaceous species during winter in Taiyuan, China. *Atmospheric Environment*, **2007**, 41, 6901-6908	5.3	94
165	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. *Atmospheric Chemistry and Physics*, **2011**, 11, 13325-13337	6.8	86
164	Reduction in NO(x) emission trends over China: regional and seasonal variations. *Environmental Science & Technology*, **2013**, 47, 12912-9	10.3	84
163	Evidence of lightning NOx and convective transport of pollutants in satellite observations over North America. *Geophysical Research Letters*, **2005**, 32,	4.9	84
162	High levels of molecular chlorine in the Arctic atmosphere. *Nature Geoscience*, **2014**, 7, 91-94	18.3	79
161	East China plains: a "basin" of ozone pollution. *Environmental Science & Technology*, **2009**, 43, 1911-5	10.3	77
160	Impact of East Asian summer monsoon on the air quality over China: View from space. *Journal of Geophysical Research*, **2010**, 115,		76
159	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. *Science of the Total Environment*, **2017**, 580, 283-296	10.2	75
158	Exploring the missing source of glyoxal (CHOCHO) over China. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	73

157	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7383-7414	4.4	71
156	A reassessment of Antarctic plateau reactive nitrogen based on ANTCI 2003 airborne and ground based measurements. *Atmospheric Environment*, **2008**, 42, 2831-2848	5.3	70
155	Enhanced source identification of southeast aerosols using temperature-resolved carbon fractions and gas phase components. *Atmospheric Environment*, **2006**, 40, 445-466	5.3	70
154	Evidence of reactive aromatics as a major source of peroxy acetyl nitrate over China. *Environmental Science & Technology*, **2010**, 44, 7017-22	10.3	69
153	Variations of O₃ and CO in summertime at a rural site near Beijing. *Atmospheric Chemistry and Physics*, **2008**, 8, 6355-6363	6.8	67
152	Assessment of biomass burning emissions and their impacts on urban and regional PM2.5: a Georgia case study. *Environmental Science & Technology*, **2009**, 43, 299-305	10.3	66
151	Distribution of reactive nitrogen species in the remote free troposphere: data and model comparisons. *Atmospheric Environment*, **1999**, 33, 1403-1422	5.3	66
150	Climate-driven ground-level ozone extreme in the fall over the Southeast United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10025-30	11.5	65
149	Quantifying the relationship between extreme air pollution events and extreme weather events. *Atmospheric Research*, **2017**, 188, 64-79	5.4	65
148	Evidence of aerosols as a media for rapid daytime HONO production over China. *Environmental Science & Technology*, **2014**, 48, 14386-91	10.3	60
147	A new indicator on the impact of large-scale circulation on wintertime particulate matter pollution over China. *Atmospheric Chemistry and Physics*, **2015**, 15, 11919-11929	6.8	58
146	Observations of inorganic bromine (HOBr, BrO, and Br2) speciation at Barrow, Alaska, in spring 2009. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		58
145	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. *Atmospheric Chemistry and Physics*, **2012**, 12, 1255-1285	6.8	55
144	Summertime impact of convective transport and lightning NO_x production over North America: modeling dependence on meteorological simulations. *Atmospheric Chemistry and Physics*, **2009**, 9, 4315-4327	6.8	54
143	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. *Journal of Geophysical Research*, **2003**, 108,		53
142	Springtime transitions of NO2, CO, and O3 over North America: Model evaluation and analysis. *Journal of Geophysical Research*, **2008**, 113,		50
141	High Levels of Daytime Molecular Chlorine and Nitryl Chloride at a Rural Site on the North China Plain. *Environmental Science & Technology*, **2017**, 51, 9588-9595	10.3	48
140	NOx emission reduction and its effects on ozone during the 2008 Olympic Games. *Environmental Science & Technology*, **2011**, 45, 6404-10	10.3	48

139	Assessing the photochemical impact of snow NOx emissions over Antarctica during ANTCI 2003. *Atmospheric Environment*, **2007**, 41, 3944-3958	5.3	48
138	Widespread persistent near-surface ozone depletion at northern high latitudes in spring. *Geophysical Research Letters*, **2003**, 30,	4.9	48
137	Latitudinal distribution of reactive nitrogen in the free troposphere over the Pacific Ocean in late winter/early spring. *Journal of Geophysical Research*, **1998**, 103, 28237-28246		46
136	The effect of lightning NO_x production on surface ozone in the continental United States. *Atmospheric Chemistry and Physics*, **2008**, 8, 5151-5159	6.8	45
135	Impacts of meteorology and emissions on summertime surface ozone increases over central eastern China between 2003 and 2015. *Atmospheric Chemistry and Physics*, **2019**, 19, 1455-1469	6.8	45
134	Nationwide summer peaks of OC/EC ratios in the contiguous United States. *Atmospheric Environment*, **2011**, 45, 578-586	5.3	44
133	A three-dimensional global model study of atmospheric methyl chloride budget and distributions. *Journal of Geophysical Research*, **2004**, 109,		44
132	No Evidence for a Significant Impact of Heterogeneous Chemistry on Radical Concentrations in the North China Plain in Summer 2014. *Environmental Science & Technology*, **2020**, 54, 5973-5979	10.3	43
131	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017. *Atmospheric Chemistry and Physics*, **2019**, 19, 12195-12207	6.8	43
130	Comparison of PM2.5 source apportionment using positive matrix factorization and molecular marker-based chemical mass balance. *Science of the Total Environment*, **2008**, 394, 290-302	10.2	41
129	Springtime photochemistry at northern mid and high latitudes. *Journal of Geophysical Research*, **2003**, 108,		40
128	Spatial and temporal patterns of global burned area in response to anthropogenic and environmental factors: Reconstructing global fire history for the 20th and early 21st centuries. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 249-263	3.7	39
127	Source characteristics of oxygenated volatile organic compounds and hydrogen cyanide. *Journal of Geophysical Research*, **2007**, 112,		39
126	Impacts of global open-fire aerosols on direct radiative, cloud and surface-albedo effects simulated with CAM5. *Atmospheric Chemistry and Physics*, **2016**, 16, 14805-14824	6.8	38
125	Anthropogenic emissions of NOx over China: Reconciling the difference of inverse modeling results using GOME-2 and OMI measurements. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 7732-7740	4.4	37
124	Impacts of climatic and atmospheric changes on carbon dynamics in the Great Smoky Mountains National Park. *Environmental Pollution*, **2007**, 149, 336-47	9.3	37
123	Characteristics and reactivity of volatile organic compounds from non-coal emission sources in China. *Atmospheric Environment*, **2015**, 115, 153-162	5.3	35
122	Halogen-driven low-altitude O3 and hydrocarbon losses in spring at northern high latitudes. *Journal of Geophysical Research*, **2006**, 111,		35

121	Factors controlling tropospheric O3, OH, NO x and SO2 over the tropical Pacific during PEM-Tropics B. *Journal of Geophysical Research*, **2001**, 106, 32733-32747		35
120	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVER-AQ 2011 observations. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1922-1934	4.4	33
119	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. *Atmospheric Chemistry and Physics*, **2012**, 12, 9909-9922	6.8	33
118	Spring to summer northward migration of high O3 over the western North Atlantic. *Geophysical Research Letters*, **2008**, 35,	4.9	33
117	Photochemistry of ozone over the western Pacific from winter to spring. *Journal of Geophysical Research*, **2004**, 109,		33
116	Source apportionment and toxicity of atmospheric polycyclic aromatic hydrocarbons by PMF: Quantifying the influence of coal usage in Taiyuan, China. *Atmospheric Research*, **2017**, 193, 50-59	5.4	32
115	Modeling the global radiative effect of brown carbon: a potentially larger heating source in the tropical free troposphere than black carbon. *Atmospheric Chemistry and Physics*, **2020**, 20, 1901-1920	6.8	32
114	The impact of volatile organic compounds on ozone formation in the suburban area of Shanghai. *Atmospheric Environment*, **2020**, 232, 117511	5.3	32
113	Impacts of prescribed fires on air quality over the Southeastern United States in spring based on modeling and ground/satellite measurements. *Environmental Science & Technology*, **2008**, 42, 8401-6	10.3	32
112	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	32
111	Comparing OMI-based and EPA AQS in situ NO₂ trends: towards understanding surface NO_{<i>x</i>} emission changes. *Atmospheric Measurement Techniques*, **2018**, 11, 3955-3967	4	31
110	3-D global simulations of tropospheric CO distributions □results of the GIM/IGAC intercomparison 1997 exercise. *Chemosphere*, **1999**, 1, 263-282		31
109	Atmospheric chemistry results from the ANTCI 2005 Antarctic plateau airborne study. *Journal of Geophysical Research*, **2010**, 115,		30
108	Concentrations and sources of aerosol ions and trace elements during ANTCI-2003. *Atmospheric Environment*, **2008**, 42, 2864-2876	5.3	30
107	Evidence of convection as a major source of condensation nuclei in the northern midlatitude upper troposphere. *Geophysical Research Letters*, **2000**, 27, 369-372	4.9	30
106	Air quality impacts from prescribed forest fires under different management practices. *Environmental Science & Technology*, **2008**, 42, 2767-72	10.3	29
105	Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. *Atmospheric Chemistry and Physics*, **2018**, 18, 427-443	6.8	28
104	Aerosols in an arid environment: The role of aerosol water content, particulate acidity, precursors, and relative humidity on secondary inorganic aerosols. *Science of the Total Environment*, **2019**, 646, 564-572	10.2	28

103	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. *Atmospheric Chemistry and Physics*, **2017**, 17, 3083-3095	6.8	28
102	Integration of remote sensing data and surface observations to estimate the impact of the Russian wildfires over Europe and Asia during August 2010. *Biogeosciences*, **2011**, 8, 3771-3791	4.6	27
101	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. *Geophysical Research Letters*, **2020**, 47, e2020GL088747	4.9	26
100	Springtime daily variations in lower-tropospheric ozone over east Asia: the role of cyclonic activity and pollution as observed from space with IASI. *Atmospheric Chemistry and Physics*, **2015**, 15, 10839-10856	6.8	26
99	Assessment of secondary organic carbon in the Southeastern United States: a review. *Journal of the Air and Waste Management Association*, **2010**, 60, 1282-92	2.4	25
98	Statistical correction and downscaling of chemical transport model ozone forecasts over Atlanta. *Atmospheric Environment*, **2008**, 42, 1338-1348	5.3	25
97	Marine latitude/altitude OH distributions: Comparison of Pacific Ocean observations with models. *Journal of Geophysical Research*, **2001**, 106, 32691-32707		24
96	Radical budget and ozone chemistry during autumn in the atmosphere of an urban site in central China. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3672-3685	4.4	23
95	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. *Atmospheric Chemistry and Physics*, **2012**, 12, 1327-1338	6.8	22
94	A growing importance of large fires in conterminous United States during 1984–2012. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 2625-2640	3.7	21
93	Diagnosis of an underestimation of summertime sulfate using the Community Multiscale Air Quality model. *Atmospheric Environment*, **2011**, 45, 5119-5130	5.3	21
92	Predicting response of fuel load to future changes in climate and atmospheric composition in the Southern United States. *Forest Ecology and Management*, **2010**, 260, 556-564	3.9	21
91	Summertime tropospheric ozone columns from Aura OMI/MLS measurements versus regional model results over the United States. *Geophysical Research Letters*, **2006**, 33,	4.9	21
90	Impacts of the Degradation of 2,3,3,3-Tetrafluoropropene into Trifluoroacetic Acid from Its Application in Automobile Air Conditioners in China, the United States, and Europe. *Environmental Science & Technology*, **2018**, 52, 2819-2826	10.3	20
89	Inverse modeling of the global methyl chloride sources. *Journal of Geophysical Research*, **2006**, 111,		20
88	On tracer correlations in the troposphere: The case of ethane and propane. *Journal of Geophysical Research*, **2004**, 109,		19
87	Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O3 at northern middle and high latitudes. *Journal of Geophysical Research*, **2003**, 108,		19
86	Trend and characteristics of atmospheric emissions of Hg, As, and Se from coal combustion in China, 1980–2007		19

85	Century-scale patterns and trends of global pyrogenic carbon emissions and fire influences on terrestrial carbon balance. *Global Biogeochemical Cycles*, **2015**, 29, 1549-1566	5.9	17
84	Sources, transport, and sinks of SO2 over the equatorial Pacific during the Pacific Atmospheric Sulfur Experiment. *Journal of Atmospheric Chemistry*, **2011**, 68, 27-53	3.2	17
83	Trans-Pacific transport of Asian dust and CO: accumulation of biomass burning CO in the subtropics and dipole structure of transport. *Atmospheric Chemistry and Physics*, **2010**, 10, 3297-3308	6.8	17
82	Assessing the photochemical impact of snow NOx emissions over Antarctica during ANTCI 2003. *Atmospheric Environment*, **2008**, 42, 2849-2863	5.3	17
81	Inverse modelling of NO_{<i>x</i>} emissions over eastern China: uncertainties due to chemical non-linearity. *Atmospheric Measurement Techniques*, **2016**, 9, 5193-5201	4	17
80	Major forest increase on the Loess Plateau, China (2001–2016). *Land Degradation and Development*, **2018**, 29, 4080-4091	4.4	17
79	Significant impact of heterogeneous reactions of reactive chlorine species on summertime atmospheric ozone and free-radical formation in north China. *Science of the Total Environment*, **2019**, 693, 133580	10.2	16
78	Evaluation of model simulated atmospheric constituents with observations in the factor projected space: CMAQ simulations of SEARCH measurements. *Atmospheric Environment*, **2009**, 43, 1839-1849	5.3	16
77	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. *Environmental Research Letters*, **2018**, 13, 114002	6.2	16
76	Using MODIS derived aerosol optical depth to estimate ground-level PM2.5 concentrations over Turkey. *Atmospheric Pollution Research*, **2019**, 10, 1565-1576	4.5	15
75	Influence of convection and biomass burning outflow on tropospheric chemistry over the tropical Pacific. *Journal of Geophysical Research*, **2000**, 105, 9321-9333		15
74	Sources of reactive nitrogen in the upper troposphere during SONEX. *Geophysical Research Letters*, **1999**, 26, 2441-2444	4.9	15
73	Development of a REgion-Specific Ecosystem Feedback Fire (RESFire) Model in the Community Earth System Model. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 417-445	7.1	14
72	Atmospheric teleconnection processes linking winter air stagnation and haze extremes in China with regional Arctic sea ice decline. *Atmospheric Chemistry and Physics*, **2020**, 20, 4999-5017	6.8	14
71	Statistical downscaling of an air quality model using Fitted Empirical Orthogonal Functions. *Atmospheric Environment*, **2013**, 81, 1-10	5.3	14
70	Dependence of Summertime Surface Ozone on NOx and VOC Emissions Over the United States: Peak Time and Value. *Geophysical Research Letters*, **2019**, 46, 3540-3550	4.9	13
69	Impact of the Eurasian Teleconnection on the Interannual Variability of Haze-Fog in Northern China in January. *Atmosphere*, **2019**, 10, 113	2.7	12
68	Large biogenic contribution to boundary layer O3-CO regression slope in summer. *Geophysical Research Letters*, **2017**, 44, 7061-7068	4.9	12

67	Pacific Atmospheric Sulfur Experiment (PASE): dynamics and chemistry of the south Pacific tropical trade wind regime. *Journal of Atmospheric Chemistry*, **2011**, 68, 5-25	3.2	12
66	An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. *Journal of Atmospheric Chemistry*, **2007**, 57, 255-280	3.2	12
65	Using CESM-RESFire to understand climate–fire–ecosystem interactions and the implications for decadal climate variability. *Atmospheric Chemistry and Physics*, **2020**, 20, 995-1020	6.8	12
64	Coke workers' exposure to volatile organic compounds in northern China: a case study in Shanxi Province. *Environmental Monitoring and Assessment*, **2015**, 187, 359	3.1	11
63	Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. *Environmental Science and Technology Letters*, **2021**, 8, 16-23	11	11
62	Diagnosing Tibetan pollutant sources via volatile organic compound observations. *Atmospheric Environment*, **2017**, 166, 244-254	5.3	10
61	Validation of SAGE III/ISS Solar Occultation Ozone Products With Correlative Satellite and Ground-Based Measurements. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032430	4.4	9
60	Understanding the contributions of anthropogenic and biogenic sources to CO enhancements and outflow observed over North America and the western Atlantic Ocean by TES and MOPITT. *Atmospheric Environment*, **2010**, 44, 2033-2042	5.3	9
59	Estimator of Surface Ozone Using Formaldehyde and Carbon Monoxide Concentrations Over the Eastern United States in Summer. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7642	4.4	9
58	A study of tropospheric ozone column enhancements over North America using satellite data and a global chemical transport model. *Journal of Geophysical Research*, **2010**, 115,		8
57	Development of a self-consistent lightning NOx simulation in large-scale 3-D models. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 3141-3154	4.4	7
56	Investigating the Impacts of the COVID-19 Lockdown on Trace Gases Using Ground-Based MAX-DOAS Observations in Nanjing, China. *Remote Sensing*, **2020**, 12, 3939	5	7
55	Investigation of short-term effective radiative forcing of fire aerosols over North America using nudged hindcast ensembles. *Atmospheric Chemistry and Physics*, **2018**, 18, 31-47	6.8	7
54	Vertical distribution of the Asian tropopause aerosols detected by CALIPSO. *Environmental Pollution*, **2019**, 253, 207-220	9.3	7
53	High cancer risk from inhalation exposure to PAHs in Fenhe Plain in winter: A particulate size distribution-based study. *Atmospheric Environment*, **2019**, 216, 116924	5.3	7
52	Surface and free tropospheric sources of methanesulfonic acid over the tropical Pacific Ocean. *Geophysical Research Letters*, **2014**, 41, 5239-5245	4.9	7
51	Inferring the anthropogenic NO_{<i>x</i>} emission trend over the United States during 2003–2017 from satellite observations: was there a flattening of the emission trend after the Great Recession?. *Atmospheric Chemistry and Physics*, **2019**, 19, 15339-15352	6.8	7
50	Contrasting Post-Fire Dynamics between Africa and South America based on MODIS Observations. *Remote Sensing*, **2019**, 11, 1074	5	6

49	A three-year investigation of metals in the atmospheric wet deposition of a basin region, north China: Pollution characteristics and source apportionment. *Atmospheric Pollution Research*, **2020**, 11, 793-802	4.5	6
48	Characteristics, sources and regional inter-transport of ambient volatile organic compounds in a city located downwind of several large coke production bases in China. *Atmospheric Environment*, **2020**, 233, 117573	5.3	6
47	Extending Ozone-Precursor Relationships in China From Peak Concentration to Peak Time. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD033670	4.4	5
46	Influence of climate variability on near-surface ozone depletion events in the Arctic spring. *Geophysical Research Letters*, **2014**, 41, 2582-2589	4.9	5
45	A vacuum ultraviolet ion source (VUV-IS) for iodide chemical ionization mass spectrometry: a substitute for radioactive ion sources. *Atmospheric Measurement Techniques*, **2020**, 13, 3683-3696	4	5
44	Forcing of the Austral Autumn Surface Pressure Change over the Antarctic Continent*. *Journals of the Atmospheric Sciences*, **1997**, 54, 1410-1422	2.1	4
43	Evaluation of model-simulated source contributions to tropospheric ozone with aircraft observations in the factor-projected space. *Atmospheric Chemistry and Physics*, **2008**, 8, 1751-1761	6.8	4
42	Summertime photochemistry during CAREBeijing-2007: RO_x budgets and O₃ formation		4
41	Chemical Production of Oxygenated Volatile Organic Compounds Strongly Enhances Boundary-Layer Oxidation Chemistry and Ozone Production. *Environmental Science & Technology*, **2021**, 55, 13718-13727	10.3	4
40	A modeling study of the regional representativeness of surface ozone variation at the WMO/GAW background stations in China. *Atmospheric Environment*, **2020**, 242, 117672	5.3	4
39	Explicit modeling of isoprene chemical processing in polluted air masses in suburban areas of the Yangtze River Delta region: radical cycling and formation of ozone and formaldehyde. *Atmospheric Chemistry and Physics*, **2021**, 21, 5905-5917	6.8	4
38	Initial Cost Barrier of Ammonia Control in Central China. *Geophysical Research Letters*, **2019**, 46, 14175-14184	4.9	4
37	Observation Constrained Aromatic Emissions in Shanghai, China. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031815	4.4	4
36	Large fire emissions in summer over the southeastern US: Satellite measurements and modeling analysis. *Atmospheric Environment*, **2016**, 127, 213-220	5.3	3
35	Characterizing the distinct modulation of future emissions on summer ozone concentrations between urban and rural areas over China.. *Science of the Total Environment*, **2022**, 820, 153324	10.2	3
34	10 yr spatial and temporal trends of PM_{2.5} concentrations in the southeastern US estimated using high-resolution satellite data		3
33	Isoprene Mixing Ratios Measured at Twenty Sites in China During 2012–2014: Comparison With Model Simulation. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD033523	4.4	3
32	Formation and dissipation dynamics of the Asian tropopause aerosol layer. *Environmental Research Letters*, **2021**, 16, 014015	6.2	3

31	Global Wildfire Outlook Forecast with Neural Networks. *Remote Sensing*, **2020**, 12, 2246	5	3
30	Measurements of light-absorbing impurities in snow over four glaciers on the Tibetan Plateau. *Atmospheric Research*, **2020**, 243, 105002	5.4	3
29	The striking effect of vertical mixing in the planetary boundary layer on new particle formation in the Yangtze River Delta.. *Science of the Total Environment*, **2022**, 829, 154607	10.2	3
28	Winter particulate pollution severity in North China driven by atmospheric teleconnections. *Nature Geoscience*, **2022**, 15, 349-355	18.3	3
27	Derivation of Hydroperoxyl Radical Levels at an Urban Site via Measurement of Pernitric Acid by Iodide Chemical Ionization Mass Spectrometry. *Environmental Science & Technology*, **2017**, 51, 3355-3363	10.3	2
26	Modeling global radiative effect of brown carbon: A larger heating source in the tropical free troposphere than black carbon **2019**,		2
25	Improve observation-based ground-level ozone spatial distribution by compositing satellite and surface observations: A simulation experiment. *Atmospheric Environment*, **2018**, 180, 226-233	5.3	2
24	Projection of future wildfire emissions in western USA under climate change: contributions from changes in wildfire, fuel loading and fuel moisture. *International Journal of Wildland Fire*, **2021**,	3.2	2
23	Comparison of the chemical evolution and characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign		2
22	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS		2
21	Photochemistry of Volatile Organic Compounds in the Yellow River Delta, China: Formation of O3 and Peroxyacyl Nitrates. *Journal of Geophysical Research D: Atmospheres*,e2021JD035296	4.4	2
20	Seasonal Variations of Carbonyls and Their Contributions to the Ozone Formation in Urban Atmosphere of Taiyuan, China. *Atmosphere*, **2021**, 12, 510	2.7	2
19	Impacts of Global Wildfire Aerosols on Direct Radiative, Cloud and Surface-Albedo Forcings Simulated with CAM5 **2016**,		2
18	Enhancement of ozone formation by increased vehicles emission and reduced coal combustion emission in Taiyuan, a traditional industrial city in northern China. *Atmospheric Environment*, **2021**, 118759	5.3	2
17	Inferring the anthropogenic NO_{<i>x</i>} emission trend over the United States during 20032017 from satellite observations: Was there a flattening of the emission tend after the Great Recession? **2019**,		1
16	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017 **2019**,		1
15	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC		1
14	Wintertime peroxyacetyl nitrate (PAN) in the megacity Beijing: the role of photochemical and meteorological processes		1

13	Global Wildfire Plume-Rise Data Set and Parameterizations for Climate Model Applications. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033085	4.4	1
12	Optimal estimation of initial concentrations and emission sources with 4D-Var for air pollution prediction in a 2D transport model. *Science of the Total Environment*, **2021**, 773, 145580	10.2	1
11	Highly time-resolved characterization of carbonaceous aerosols using a two-wavelength Sunset thermal–optical carbon analyzer. *Atmospheric Measurement Techniques*, **2021**, 14, 4053-4068	4	1
10	Comprehensive evaluations of diurnal NO₂ measurements during DISCOVER-AQ 2011: effects of resolution-dependent representation of NO_{<i>x</i>} emissions. *Atmospheric Chemistry and Physics*, **2021**, 21, 11133-11160	6.8	1
9	Gas–particle partitioning of polyol tracers at a suburban site in Nanjing, east China: increased partitioning to the particle phase. *Atmospheric Chemistry and Physics*, **2021**, 21, 12141-12153	6.8	1
8	Formation mechanism of HCHO pollution in the suburban Yangtze River Delta region, China: A box model study and policy implementations. *Atmospheric Environment*, **2021**, 267, 118755	5.3	1
7	Recommendations for HCHO and SO2 Retrieval Settings from MAX-DOAS Observations under Different Meteorological Conditions. *Remote Sensing*, **2021**, 13, 2244	5	0
6	Quantifying the Impacts of COVID-19 Lockdown and Spring Festival on Air Quality over Yangtze River Delta Region. *Atmosphere*, **2021**, 12, 735	2.7	0
5	Ambient observations indicating an increasing effectiveness of ammonia control in wintertime PM reduction in Central China.. *Science of the Total Environment*, **2022**, 153708	10.2	0
4	Comment on "Insignificant effect of climate change on winter haze pollution in Beijing" by Shen et al. (2018). *Atmospheric Chemistry and Physics*, **2019**, 19, 8563-8568	6.8	
3	A dynamical pathway bridging African biomass burning and Asian summer monsoon. *Climate Dynamics*, **2021**, 57, 1993-2004	4.2	
2	Summertime Clean-Background Ozone Concentrations Derived from Ozone Precursor Relationships are Lower than Previous Estimates in the Southeast United States. *Environmental Science & Technology*, **2021**, 55, 12852-12861	10.3	
1	The Impact of Meteorology and Emissions on Surface Ozone in Shandong Province, China, during Summer 2014–2019. *International Journal of Environmental Research and Public Health*, **2022**, 19, 6758	4.6	