Yuhang Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5884417/publications.pdf

Version: 2024-02-01

183 papers	11,068 citations	31976 53 h-index	40979 93 g-index
230 all docs	230 docs citations	230 times ranked	8629 citing authors

#	Article	IF	Citations
1	Aerosol and monsoon climate interactions over Asia. Reviews of Geophysics, 2016, 54, 866-929.	23.0	591
2	Global simulation of tropospheric O3-NOx-hydrocarbon chemistry: 1. Model formulation. Journal of Geophysical Research, 1998, 103, 10713-10725.	3.3	527
3	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	3.2	365
4	Climate forcings in Goddard Institute for Space Studies SI2000 simulations. Journal of Geophysical Research, 2002, 107, ACL 2-1.	3.3	302
5	Global simulation of tropospheric O3-NOx-hydrocarbon chemistry: 3. Origin of tropospheric ozone and effects of nonmethane hydrocarbons. Journal of Geophysical Research, 1998, 103, 10757-10767.	3.3	257
6	Long-term trend of surface ozone at a regional background station in eastern China 1991â€“2006: enhanced variability. Atmospheric Chemistry and Physics, 2008, 8, 2595-2607.	4.9	224
7	Anthropogenic forcing on tropospheric ozone and OH since preindustrial times. Journal of Geophysical Research, 1998, 103, 31123-31135.	3.3	223
8	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, .	3.3	218
9	Global simulation of tropospheric O3-NOx-hydrocarbon chemistry: 2. Model evaluation and global ozone budget. Journal of Geophysical Research, 1998, 103, 10727-10755.	3.3	203
10	Ambient volatile organic compounds and their effect on ozone production in Wuhan, central China. Science of the Total Environment, 2016, 541, 200-209.	8.0	199
11	Ozone air quality during the 2008 Beijing Olympics: effectiveness of emission restrictions. Atmospheric Chemistry and Physics, 2009, 9, 5237-5251.	4.9	190
12	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.	4.9	189
13	Arctic sea ice, Eurasia snow, and extreme winter haze in China. Science Advances, 2017, 3, e1602751.	10.3	181
14	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
15	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. Nature Geoscience, 2017, 10, 486-489.	12.9	168
16	NOx Emission Reduction and Recovery during COVID-19 in East China. Atmosphere, 2020, 11, 433.	2.3	160
17	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.	3.3	159
18	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.	4.1	159

#	Article	IF	Citations
19	Summertime photochemistry during CAREBeijing-2007: RO_x budgets and O₃ formation. Atmospheric Chemistry and Physics, 2012, 12, 7737-7752.	4.9	150
20	Nitric oxide production by simulated lightning: Dependence on current, energy, and pressure. Journal of Geophysical Research, 1998, 103, 19149-19159.	3.3	148
21	On the origin of tropospheric ozone and NOxover the tropical South Pacific. Journal of Geophysical Research, 1999, 104, 5829-5843.	3.3	140
22	Constraining global isoprene emissions with Global Ozone Monitoring Experiment (GOME) formaldehyde column measurements. Journal of Geophysical Research, 2005, 110, .	3.3	140
23	Sources and chemistry of NOxin the upper troposphere over the United States. Geophysical Research Letters, 1998, 25, 1705-1708.	4.0	126
24	Assimilated inversion of NO_x emissions over east Asia using OMI NO₂ column measurements. Geophysical Research Letters, 2009, 36, .	4.0	118
25	Atmospheric aerosol over two urbanâ€“rural pairs in the southeastern United States: Chemical composition and possible sources. Atmospheric Environment, 2005, 39, 4453-4470.	4.1	116
26	Climatologies of NOxx and NOy: A comparison of data and models. Atmospheric Environment, 1997, 31, 1851-1904.	4.1	111
27	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.	4.9	106
28	High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94.	12.9	105
29	Characteristics and sources of PM2.5 and carbonaceous species during winter in Taiyuan, China. Atmospheric Environment, 2007, 41, 6901-6908.	4.1	104
30	Reduction in NO_x Emission Trends over China: Regional and Seasonal Variations. Environmental Science & Technology, 2013, 47, 12912-12919.	10.0	97
31	Evidence of lightning NOxand convective transport of pollutants in satellite observations over North America. Geophysical Research Letters, 2005, 32, .	4.0	95
32	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.	4.9	95
33	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.	3.3	93
34	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	8.0	93
35	Impact of East Asian summer monsoon on the air quality over China: View from space. Journal of Geophysical Research, 2010, 115, .	3.3	88
36	Quantifying the relationship between extreme air pollution events and extreme weather events. Atmospheric Research, 2017, 188, 64-79.	4.1	88

#	Article	IF	Citations
37	A reassessment of Antarctic plateau reactive nitrogen based on ANTCI 2003 airborne and ground based measurements. Atmospheric Environment, 2008, 42, 2831-2848.	4.1	87
38	East China Plains: A â€œBasinâ€•of Ozone Pollution. Environmental Science & Technology, 2009, 43, 1911-1915.	10.0	87
39	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, 10025-10030.	7.1	87
40	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.	4.9	85
41	Evidence of Reactive Aromatics As a Major Source of Peroxy Acetyl Nitrate over China. Environmental Science & Technology, 2010, 44, 7017-7022.	10.0	84
42	Enhanced source identification of southeast aerosols using temperature-resolved carbon fractions and gas phase components. Atmospheric Environment, 2006, 40, 445-466.	4.1	83
43	Exploring the missing source of glyoxal (CHOCHO) over China. Geophysical Research Letters, 2012, 39, .	4.0	82
44	Distribution of reactive nitrogen species in the remote free troposphere: data and model comparisons. Atmospheric Environment, 1999, 33, 1403-1422.	4.1	79
45	Assessment of Biomass Burning Emissions and Their Impacts on Urban and Regional PM_{2.5}: A Georgia Case Study. Environmental Science & Technology, 2009, 43, 299-305.	10.0	79
46	Evidence of Aerosols as a Media for Rapid Daytime HONO Production over China. Environmental Science & Technology, 2014, 48, 14386-14391.	10.0	79
47	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.	10.0	78
48	Variations of O₃ and CO in summertime at a rural site near Beijing. Atmospheric Chemistry and Physics, 2008, 8, 6355-6363.	4.9	77
49	Observations of inorganic bromine (HOBr, BrO, and Br₂) speciation at Barrow, Alaska, in spring 2009. Journal of Geophysical Research, 2012, 117, .	3.3	71
50	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.	4.9	70
51	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.	4.9	69
52	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.	4.9	67
53	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.	10.0	67
54	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.	4.9	63

#	Article	IF	Citations
55	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. Journal of Geophysical Research, 2003, 108, .	3.3	62
56	Global Measurements of Brown Carbon and Estimated Direct Radiative Effects. Geophysical Research Letters, 2020, 47, e2020GL088747.	4.0	61
57	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.	4.9	57
58	Springtime transitions of NO₂, CO, and O₃ over North America: Model evaluation and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	56
59	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.	3.0	56
60	Widespread persistent near-surface ozone depletion at northern high latitudes in spring. Geophysical Research Letters, 2003, 30, .	4.0	53
61	Assessing the photochemical impact of snow NOx emissions over Antarctica during ANTCI 2003. Atmospheric Environment, 2007, 41, 3944-3958.	4.1	53
62	The effect of lightning NO_x production on surface ozone in the continental United States. Atmospheric Chemistry and Physics, 2008, 8, 5151-5159.	4.9	53
63	The impact of volatile organic compounds on ozone formation in the suburban area of Shanghai. Atmospheric Environment, 2020, 232, 117511.	4.1	53
64	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.	3.3	52
65	Characteristics and reactivity of volatile organic compounds from non-coal emission sources in China. Atmospheric Environment, 2015, 115, 153-162.	4.1	52
66	A three-dimensional global model study of atmospheric methyl chloride budget and distributions. Journal of Geophysical Research, 2004, 109, .	3.3	51
67	NO_x Emission Reduction and its Effects on Ozone during the 2008 Olympic Games. Environmental Science & Technology, 2011, 45, 6404-6410.	10.0	51
68	Springtime photochemistry at northern mid and high latitudes. Journal of Geophysical Research, 2003, 108, .	3.3	49
69	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.	8.0	49
70	Nationwide summer peaks of OC/EC ratios in the contiguous United States. Atmospheric Environment, 2011, 45, 578-586.	4.1	49
71	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.	4.1	47
72	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.	8.0	46

#	Article	IF	Citations
73	Anthropogenic emissions of NO_xover China: Reconciling the difference of inverse modeling results using GOME-2 and OMI measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7732-7740.	3.3	45
74	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.	4.9	45
75	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	43
76	Source characteristics of oxygenated volatile organic compounds and hydrogen cyanide. Journal of Geophysical Research, 2007, 112, .	3.3	42
77	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.	4.9	42
78	Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 427-443.	4.9	42
79	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.	3.1	41
80	Halogen-driven low-altitude O3and hydrocarbon losses in spring at northern high latitudes. Journal of Geophysical Research, 2006, 111, .	3.3	40
81	Impacts of climatic and atmospheric changes on carbon dynamics in the Great Smoky Mountains National Park. Environmental Pollution, 2007, 149, 336-347.	7.5	39
82	3-D global simulations of tropospheric CO distributions â€“ results of the GIM/IGAC intercomparison 1997 exercise. Chemosphere, 1999, 1, 263-282.	1.2	38
83	Factors controlling tropospheric O3, OH, NOxand SO2over the tropical Pacific during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32733-32747.	3.3	38
84	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVERâ€AQ 2011 observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1922-1934.	3.3	38
85	Enhanced trans-Himalaya pollution transport to the Tibetan Plateau by cut-off low systems. Atmospheric Chemistry and Physics, 2017, 17, 3083-3095.	4.9	38
86	Photochemistry of ozone over the western Pacific from winter to spring. Journal of Geophysical Research, 2004, 109, .	3.3	37
87	Concentrations and sources of aerosol ions and trace elements during ANTCI-2003. Atmospheric Environment, 2008, 42, 2864-2876.	4.1	37
88	Winter particulate pollution severity in North China driven by atmospheric teleconnections. Nature Geoscience, 2022, 15, 349-355.	12.9	37
89	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, 8401-8406.	10.0	36
90	Using MODIS derived aerosol optical depth to estimate ground-level PM2.5 concentrations over Turkey. Atmospheric Pollution Research, 2019, 10, 1565-1576.	3.8	36

#	Article	IF	Citations
91	Atmospheric chemistry results from the ANTCI 2005 Antarctic plateau airborne study. Journal of Geophysical Research, 2010, 115, .	3.3	35
92	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.	3.3	35
93	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.	10.0	35
94	Spring to summer northward migration of high O₃ over the western North Atlantic. Geophysical Research Letters, 2008, 35, .	4.0	34
95	Air Quality Impacts from Prescribed Forest Fires under Different Management Practices. Environmental Science & Technology, 2008, 42, 2767-2772.	10.0	34
96	Major forest increase on the Loess Plateau, China (2001â€“2016). Land Degradation and Development, 2018, 29, 4080-4091.	3.9	34
97	Evidence of convection as a major source of condensation nuclei in the northern midlatitude upper troposphere. Geophysical Research Letters, 2000, 27, 369-372.	4.0	32
98	Using CESM-RESFire to understand climateâ€“fireâ€“ecosystem interactions and the implications for decadal climate variability. Atmospheric Chemistry and Physics, 2020, 20, 995-1020.	4.9	31
99	Chemical Production of Oxygenated Volatile Organic Compounds Strongly Enhances Boundary-Layer Oxidation Chemistry and Ozone Production. Environmental Science & Technology, 2021, 55, 13718-13727.	10.0	31
100	Marine latitude/altitude OH distributions: Comparison of Pacific Ocean observations with models. Journal of Geophysical Research, 2001, 106, 32691-32707.	3.3	30
101	Statistical correction and downscaling of chemical transport model ozone forecasts over Atlanta. Atmospheric Environment, 2008, 42, 1338-1348.	4.1	30
102	A growing importance of large fires in conterminous United States during 1984â€“2012. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2625-2640.	3.0	30
103	Assessment of Secondary Organic Carbon in the Southeastern United States: A Review. Journal of the Air and Waste Management Association, 2010, 60, 1282-1292.	1.9	29
104	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.	3.3	29
105	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.	8.0	29
106	Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. Environmental Science and Technology Letters, 2021, 8, 16-23.	8.7	29
107	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. Atmospheric Chemistry and Physics, 2012, 12, 1327-1338.	4.9	27
108	Evidence of heterogeneous HONO formation from aerosols and the regional photochemical impact of this HONO source. Environmental Research Letters, 2018, 13, 114002.	5.2	26

#	Article	IF	Citations
109	Summertime tropospheric ozone columns from Aura OMI/MLS measurements versus regional model results over the United States. Geophysical Research Letters, 2006, 33, .	4.0	24
110	Assessing the photochemical impact of snow NOxNOx emissions over Antarctica during ANTCI 2003â˜†. Atmospheric Environment, 2008, 42, 2849-2863.	4.1	24
111	Validation of SAGE III/ISS Solar Occultation Ozone Products With Correlative Satellite and Groundâ€Based Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032430.	3.3	24
112	Inverse modeling of the global methyl chloride sources. Journal of Geophysical Research, 2006, 111, .	3.3	23
113	Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O3at northern middle and high latitudes. Journal of Geophysical Research, 2003, 108, .	3.3	22
114	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.	3.2	22
115	Diagnosis of an underestimation of summertime sulfate using the Community Multiscale Air Quality model. Atmospheric Environment, 2011, 45, 5119-5130.	4.1	22
116	Inverse modelling of NO_{<i>x</i>} emissions over eastern China: uncertainties due to chemical non-linearity. Atmospheric Measurement Techniques, 2016, 9, 5193-5201.	3.1	22
117	On tracer correlations in the troposphere: The case of ethane and propane. Journal of Geophysical Research, 2004, 109, .	3.3	21
118	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.	4.9	21
119	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	21
120	Centuryâ€scale patterns and trends of global pyrogenic carbon emissions and fire influences on terrestrial carbon balance. Global Biogeochemical Cycles, 2015, 29, 1549-1566.	4.9	21
121	Dependence of Summertime Surface Ozone on NO_x and VOC Emissions Over the United States: Peak Time and Value. Geophysical Research Letters, 2019, 46, 3540-3550.	4.0	20
122	Development of a REgionâ€Specific Ecosystem Feedback Fire (RESFire) Model in the Community Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 417-445.	3.8	20
123	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.	4.9	20
124	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.	4.9	20
125	Diagnosing Tibetan pollutant sources via volatile organic compound observations. Atmospheric Environment, 2017, 166, 244-254.	4.1	18
126	Impact of the Eurasian Teleconnection on the Interannual Variability of Haze-Fog in Northern China in January. Atmosphere, 2019, 10, 113.	2.3	18

#	Article	IF	Citations
127	Evaluation of model simulated atmospheric constituents with observations in the factor projected space: CMAQ simulations of SEARCH measurements. Atmospheric Environment, 2009, 43, 1839-1849.	4.1	17
128	Coke workersâ€™ exposure to volatile organic compounds in northern China: a case study in Shanxi Province. Environmental Monitoring and Assessment, 2015, 187, 359.	2.7	17
129	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.	4.1	17
130	Statistical downscaling of an air quality model using Fitted Empirical Orthogonal Functions. Atmospheric Environment, 2013, 81, 1-10.	4.1	16
131	Sources of reactive nitrogen in the upper troposphere during SONEX. Geophysical Research Letters, 1999, 26, 2441-2444.	4.0	15
132	Influence of convection and biomass burning outflow on tropospheric chemistry over the tropical Pacific. Journal of Geophysical Research, 2000, 105, 9321-9333.	3.3	15
133	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.	4.0	15
134	Large biogenic contribution to boundary layer O₃â€CO regression slope in summer. Geophysical Research Letters, 2017, 44, 7061-7068.	4.0	14
135	AÂvacuum ultraviolet ion source (VUV-IS) for iodideâ€“chemical ionization mass spectrometry: a substitute for radioactive ion sources. Atmospheric Measurement Techniques, 2020, 13, 3683-3696.	3.1	14
136	Isoprene Mixing Ratios Measured at Twenty Sites in China During 2012â€“2014: Comparison With Model Simulation. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033523.	3.3	14
137	An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. Journal of Atmospheric Chemistry, 2007, 57, 255-280.	3.2	13
138	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	13
139	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.	4.9	13
140	Inferring the anthropogenic NO_{<i>x</i>} emission trend over the United States during 2003â€“2017 from satellite observations: was there a flattening of the emission trend after the Great Recession?. Atmospheric Chemistry and Physics, 2019, 19, 15339-15352.	4.9	13
141	Observation Constrained Aromatic Emissions in Shanghai, China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031815.	3.3	13
142	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.	8.0	13
143	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.	4.1	12
144	Initial Cost Barrier of Ammonia Control in Central China. Geophysical Research Letters, 2019, 46, 14175-14184.	4.0	12

#	Article	IF	Citations
145	Extending Ozoneâ€Precursor Relationships in China From Peak Concentration to Peak Time. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033670.	3.3	12
146	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.	4.1	12
147	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, .	3.3	11
148	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, 7642-7655.	3.3	11
149	Vertical distribution of the Asian tropopause aerosols detected by CALIPSO. Environmental Pollution, 2019, 253, 207-220.	7.5	11
150	Photochemistry of Volatile Organic Compounds in the Yellow River Delta, China: Formation of O₃ and Peroxyacyl Nitrates. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035296.	3.3	11
151	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.	8.0	11
152	Surface and free tropospheric sources of methanesulfonic acid over the tropical Pacific Ocean. Geophysical Research Letters, 2014, 41, 5239-5245.	4.0	10
153	Development of a selfâ€consistent lightning NO_x simulation in largeâ€scale 3â€D models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3141-3154.	3.3	10
154	High cancer risk from inhalation exposure to PAHs in Fenhe Plain in winter: A particulate size distribution-based study. Atmospheric Environment, 2019, 216, 116924.	4.1	10
155	Global Wildfire Outlook Forecast with Neural Networks. Remote Sensing, 2020, 12, 2246.	4.0	10
156	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, 2022, 31, 1-13.	2.4	10
157	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.	3.8	9
158	Global Wildfire Plumeâ€Rise Data Set and Parameterizations for Climate Model Applications. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033085.	3.3	9
159	Ambient observations indicating an increasing effectiveness of ammonia control in wintertime PM2.5 reduction in Central China. Science of the Total Environment, 2022, 824, 153708.	8.0	9
160	Improve observation-based ground-level ozone spatial distribution by compositing satellite and surface observations: A simulation experiment. Atmospheric Environment, 2018, 180, 226-233.	4.1	8
161	Seasonal Variations of Carbonyls and Their Contributions to the Ozone Formation in Urban Atmosphere of Taiyuan, China. Atmosphere, 2021, 12, 510.	2.3	8
162	Contrasting Post-Fire Dynamics between Africa and South America based on MODIS Observations. Remote Sensing, 2019, 11, 1074.	4.0	7

#	Article	IF	Citations
163	Measurements of light-absorbing impurities in snow over four glaciers on the Tibetan Plateau. Atmospheric Research, 2020, 243, 105002.	4.1	7
164	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.	4.9	7
165	Gasâ€“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.	4.9	7
166	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, 267, 118759.	4.1	7
167	Influence of climate variability on near-surface ozone depletion events in the Arctic spring. Geophysical Research Letters, 2014, 41, 2582-2589.	4.0	6
168	A modeling study of the regional representativeness of surface ozone variation at the WMO/GAW background stations in China. Atmospheric Environment, 2020, 242, 117672.	4.1	6
169	Quantifying the Impacts of COVID-19 Lockdown and Spring Festival on Air Quality over Yangtze River Delta Region. Atmosphere, 2021, 12, 735.	2.3	6
170	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.	4.9	5
171	Recommendations for HCHO and SO2 Retrieval Settings from MAX-DOAS Observations under Different Meteorological Conditions. Remote Sensing, 2021, 13, 2244.	4.0	5
172	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.	8.0	5
173	Formation and dissipation dynamics of the Asian tropopause aerosol layer. Environmental Research Letters, 2021, 16, 014015.	5.2	5
174	Forcing of the Austral Autumn Surface Pressure Change over the Antarctic Continent*. Journals of the Atmospheric Sciences, 1997, 54, 1410-1422.	1.7	4
175	Large fire emissions in summer over the southeastern US: Satellite measurements and modeling analysis. Atmospheric Environment, 2016, 127, 213-220.	4.1	4
176	Highly time-resolved characterization of carbonaceous aerosols using a two-wavelength Sunset thermalâ€“optical carbon analyzer. Atmospheric Measurement Techniques, 2021, 14, 4053-4068.	3.1	4
177	Arctic sea ice modulation of summertime heatwaves over western North America in recent decades. Environmental Research Letters, 2022, 17, 074015.	5.2	4
178	Collocated Measurements of Lightâ€Absorbing Organic Carbon in PM_{2.5}: Observation Uncertainty and Organic Tracerâ€Based Source Apportionment. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
179	The Impact of Meteorology and Emissions on Surface Ozone in Shandong Province, China, during Summer 2014â€“2019. International Journal of Environmental Research and Public Health, 2022, 19, 6758.	2.6	3
180	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.	10.0	2

#	Article	IF	Citations
181	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.	10.0	2
182	Comment on â€œInsignificant effect of climate change on winter haze pollution in Beijingâ€•by Shen et al. (2018). Atmospheric Chemistry and Physics, 2019, 19, 8563-8568.	4.9	0
183	A dynamical pathway bridging African biomass burning and Asian summer monsoon. Climate Dynamics, 2021, 57, 1993-2004.	3.8	0