

Jingqiu Mao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

5,090
citations

39
h-index

71
g-index

127
ext. papers

5,894
ext. citations

6.8
avg, IF

4.87
L-index

#	Paper	IF	Citations
92	Source and variability of formaldehyde (HCHO) at northern high latitudes: an integrated satellite, aircraft, and model study. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 7163-7178	6.8	1
91	Global Impact of Lightning-Produced Oxidants. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095740	4.9	2
90	Extreme oxidant amounts produced by lightning in storm clouds. <i>Science</i> , 2021 , 372, 711-715	33.3	10
89	Brownness of Organic Aerosol over the United States: Evidence for Seasonal Biomass Burning and Photobleaching Effects. <i>Environmental Science & Technology</i> , 2021 , 55, 8561-8572	10.3	2
88	Unraveling pathways of elevated ozone induced by the 2020 lockdown in Europe by an observationally constrained regional model using TROPOMI.. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1-19	6.8	5
87	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087158	4.9	4
86	Long-term observational constraints of organic aerosol dependence on inorganic species in the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13091-13107	6.8	5
85	Spatial and temporal variability of brown carbon in United States: implications for direct radiative effects. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090332	4.9	7
84	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002032	7.1	25
83	Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. <i>Marine Chemistry</i> , 2019 , 217, 103704	3.7	21
82	Global sensitivity analysis of GEOS-Chem modeled ozone and hydrogen oxides during the INTEX campaigns. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2443-2460	6.8	4
81	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2341-2361	6.8	24
80	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2615-2651	6.8	31
79	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14493-14510	6.8	8
78	Local Arctic Air Pollution: A Neglected but Serious Problem. <i>Earth's Future</i> , 2018 , 6, 1385-1412	7.9	50
77	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India 2018 ,		1
76	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10157-10175	6.8	34

75	Quantifying the causes of differences in tropospheric OH within global models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1983-2007	4.4	18
74	Soluble Fe in Aerosols Sustained by Gaseous HO ₂ Uptake. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 98-104	11	15
73	Global sensitivity analysis of the GEOS-Chem chemical transport model: ozone and hydrogen oxides during ARCTAS (2008). <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3769-3784	6.8	14
72	Global atmospheric chemistry – which air matters. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9081-9102	6.8	22
71	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2103-2162	6.8	206
70	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 4272-4295	4.4	20
69	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1459-1477	6.8	55
68	Formaldehyde production from isoprene oxidation across NO regimes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2597-2610	6.8	88
67	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5969-5991	6.8	129
66	Observational Constraints on the Oxidation of NO _x in the Upper Troposphere. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1468-78	2.8	20
65	Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3063-3093	4	50
64	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms and organic aerosol 2016 ,		3
63	Organic nitrate chemistry and its implications for nitrogen budgets in an isoprene- and monoterpene-rich atmosphere: constraints from aircraft (SEACRS) and ground-based (SOAS) observations in the Southeast US 2016 ,		3
62	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9849-9861	4.4	38
61	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7461-7488	4.4	17
60	Positive but variable sensitivity of August surface ozone to large-scale warming in the southeast United States. <i>Nature Climate Change</i> , 2015 , 5, 454-458	21.4	59
59	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3575-3603	6.8	67
58	Biomass burning influence on high-latitude tropospheric ozone and reactive nitrogen in summer 2008: a multi-model analysis based on POLMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6047-6068	6.8	34

57	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6721-6744	6.8	52
56	Atmospheric peroxyacetyl nitrate (PAN): a global budget and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2679-2698	6.8	194
55	Top-down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6849-6868	4.4	69
54	Observational insights into aerosol formation from isoprene. <i>Environmental Science & Technology</i> , 2013 , 47, 11403-13	10.3	95
53	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013 , 40, 1241-1246	4.9	33
52	Radical loss in the atmosphere from Cu-Fe redox coupling in aerosols. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 509-519	6.8	130
51	Atmospheric oxidation chemistry and ozone production: Results from SHARP 2009 in Houston, Texas. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5770-5780	4.4	67
50	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,256-11,268	4.4	182
49	Impact of preindustrial to present-day changes in short-lived pollutant emissions on atmospheric composition and climate forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8086-8110	4.4	91
48	The role of the ocean in the global atmospheric budget of acetone. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	78
47	Airborne intercomparison of HO _x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS 2012 ,		2
46	Airborne intercomparison of HO _x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2025-2037	4	23
45	Modeling uncertainties for tropospheric nitrogen dioxide columns affecting satellite-based inverse modeling of nitrogen oxides emissions. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 12255-12275	6.8	66
44	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6219-6235	6.8	132
43	Insights into hydroxyl measurements and atmospheric oxidation in a California forest. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8009-8020	6.8	175
42	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6799-6825	6.8	29
41	Can a state-of-the-art chemistry transport model simulate Amazonian tropospheric chemistry?. <i>Journal of Geophysical Research</i> , 2011 , 116,		43
40	Global and regional effects of the photochemistry of CH ₃ O ₂ /NO ₂ : evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4209-4219	6.8	41

39	Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter-spring: implications for radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12453-12473	6.8	236
38	The Chemistry of Atmosphere-Forest Exchange (CAFE) Model [Part 2: Application to BEARPEX-2007 observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1269-1294	6.8	67
37	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11867-11894	6.8	32
36	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8883-8897	6.8	39
35	Global atmospheric model for mercury including oxidation by bromine atoms. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 12037-12057	6.8	341
34	Measurement of atmospheric nitrous acid at Bodgett Forest during BEARPEX2007. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6283-6294	6.8	52
33	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9739-9760	6.8	188
32	Chemistry of hydrogen oxide radicals (HO _x) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5823-5838	6.8	184
31	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8761-8781	6.8	44
30	Atmospheric oxidation capacity in the summer of Houston 2006: Comparison with summer measurements in other metropolitan studies. <i>Atmospheric Environment</i> , 2010 , 44, 4107-4115	5.3	168
29	A comparison of chemical mechanisms based on TRAMP-2006 field data. <i>Atmospheric Environment</i> , 2010 , 44, 4116-4125	5.3	54
28	Impact of clouds and aerosols on ozone production in Southeast Texas. <i>Atmospheric Environment</i> , 2010 , 44, 4126-4133	5.3	33
27	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. <i>Atmospheric Environment</i> , 2010 , 44, 4553-4564	5.3	116
26	Airborne measurement of OH reactivity during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1636183	6.8	225
25	Closing the peroxy acetyl nitrate budget: observations of acyl peroxy nitrates (PAN, PPN, and MPAN) during BEARPEX 2007. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7623-7641	6.8	87
24	HO _x chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		142
23	Characterization of Wintertime Reactive Oxygen Species Concentrations in Flushing, New York. <i>Aerosol Science and Technology</i> , 2007 , 41, 97-111	3.4	70
22	Behavior of OH and HO ₂ in the winter atmosphere in New York City. <i>Atmospheric Environment</i> , 2006 , 40, 252-263	5.3	132

21	Atmospheric oxidation in the Mexico City Metropolitan Area (MCMA) during April 2003. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2753-2765	6.8	183
20	Global atmospheric model for mercury including oxidation by bromine atoms		12
19	Measurement of atmospheric nitrous acid at Blodgett Forest during BEARPEX2007		1
18	Observations of elevated formaldehyde over a forest canopy suggest missing sources from rapid oxidation of arboreal hydrocarbons		1
17	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007		2
16	Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter/spring: implications for radiative forcing		7
15	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B campaign: potential evidence for unmeasured and multi-generation volatile organic carbon oxidation processing		1
14	Model uncertainties affecting satellite-based inverse modeling of nitrogen oxides emissions and implications for surface ozone simulation		4
13	Radical loss in the atmosphere from Cu-Fe redox coupling in aerosols		8
12	Insights into hydroxyl measurements and atmospheric oxidation in a California forest		15
11	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns		3
10	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE		1
9	Biomass burning influence on high latitude tropospheric ozone and reactive nitrogen in summer 2008: a multi-model analysis based on POLMIP simulations		8
8	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic		9
7	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations		10
6	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth		3
5	Formaldehyde production from isoprene oxidation across NO _x regimes		6
4	Airborne measurement of OH reactivity during INTEX-B		2

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- 2 Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring 1
- 1 Atmospheric peroxyacetyl nitrate (PAN): a global budget and source attribution 1