

Loretta J Mickley

List of Publications by Citations

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118
papers

9,200
citations

52
h-index

95
g-index

125
ext. papers

10,839
ext. citations

7.4
avg, IF

6.13
L-index

#	Paper	IF	Citations
118	Global modeling of tropospheric chemistry with assimilated meteorology: Model description and evaluation. <i>Journal of Geophysical Research</i> , 2001 , 106, 23073-23095		1601
117	Correlations between fine particulate matter (PM _{2.5}) and meteorological variables in the United States: Implications for the sensitivity of PM _{2.5} to climate change. <i>Atmospheric Environment</i> , 2010 , 44, 3976-3984	5.3	575
116	Impacts of climate change from 2000 to 2050 on wildfire activity and carbonaceous aerosol concentrations in the western United States. <i>Journal of Geophysical Research</i> , 2009 , 114,		286
115	Effect of changes in climate and emissions on future sulfate-nitrate-ammonium aerosol levels in the United States. <i>Journal of Geophysical Research</i> , 2009 , 114,		259
114	Why are there large differences between models in global budgets of tropospheric ozone?. <i>Journal of Geophysical Research</i> , 2007 , 112,		221
113	General circulation model assessment of direct radiative forcing by the sulfate-nitrate-ammonium-water inorganic aerosol system. <i>Journal of Geophysical Research</i> , 2001 , 106, 1097-1111		196
112	Biogenic secondary organic aerosol over the United States: Comparison of climatological simulations with observations. <i>Journal of Geophysical Research</i> , 2007 , 112,		189
111	Public health impacts of the severe haze in Equatorial Asia in September-October 2015: demonstration of a new framework for informing fire management strategies to reduce downwind smoke exposure. <i>Environmental Research Letters</i> , 2016 , 11, 094023	6.2	185
110	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6723-6740	6.8	181
109	Effects of future climate change on regional air pollution episodes in the United States. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	172
108	An ensemble-based model of PM concentration across the contiguous United States with high spatiotemporal resolution. <i>Environment International</i> , 2019 , 130, 104909	12.9	170
107	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 1843-1864	6.1	153
106	Ensemble projections of wildfire activity and carbonaceous aerosol concentrations over the western United States in the mid-21st century. <i>Atmospheric Environment</i> , 2013 , 77, 767-780	5.3	152
105	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	152
104	Particulate Air Pollution from Wildfires in the Western US under Climate Change. <i>Climatic Change</i> , 2016 , 138, 655-666	4.5	145
103	Effects of 2000-2050 global change on ozone air quality in the United States. <i>Journal of Geophysical Research</i> , 2008 , 113,		142
102	Interactions between tropospheric chemistry and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2003 , 108, AAC 1-1		137

101	Climatic effects of 1950–2050 changes in US anthropogenic aerosols [Part 1: Aerosol trends and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3333-3348	6.8	136
100	Sensitivity of US air quality to mid-latitude cyclone frequency and implications of 1980–2006 climate change. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7075-7086	6.8	136
99	Meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in the United States: implications for PM _{2.5} ; sensitivity to climate change. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3131-3145	6.8	130
98	Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 575-599	6.8	126
97	Indonesian wildfires of 1997: Impact on tropospheric chemistry. <i>Journal of Geophysical Research</i> , 2003 , 108,		122
96	Climatic effects of 1950–2050 changes in US anthropogenic aerosols [Part 2: Climate response. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3349-3362	6.8	119
95	Radiative forcing from tropospheric ozone calculated with a unified chemistry-climate model. <i>Journal of Geophysical Research</i> , 1999 , 104, 30153-30172		119
94	Impacts of changes in land use and land cover on atmospheric chemistry and air quality over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1597-1609	6.8	117
93	Global radiative forcing of coupled tropospheric ozone and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2004 , 109,		117
92	Fire emissions and regional air quality impacts from fires in oil palm, timber, and logging concessions in Indonesia. <i>Environmental Research Letters</i> , 2015 , 10, 085005	6.2	107
91	Wildfires drive interannual variability of organic carbon aerosol in the western U.S. in summer. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	103
90	Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Counties. <i>Epidemiology</i> , 2017 , 28, 77-85	3.1	100
89	Effects of 2000–2050 changes in climate and emissions on global tropospheric ozone and the policy-relevant background surface ozone in the United States. <i>Journal of Geophysical Research</i> , 2008 , 113,		100
88	Validation of nitric oxide and nitrogen dioxide measurements made by the Halogen Occultation Experiment for UARS platform. <i>Journal of Geophysical Research</i> , 1996 , 101, 10241-10266		100
87	Global mortality from outdoor fine particle pollution generated by fossil fuel combustion: Results from GEOS-Chem. <i>Environmental Research</i> , 2021 , 195, 110754	7.9	100
86	Radiative forcing in the 21st century due to ozone changes in the troposphere and the lower stratosphere. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		99
85	Linking global to regional models to assess future climate impacts on surface ozone levels in the United States. <i>Journal of Geophysical Research</i> , 2008 , 113,		94
84	Uncertainty in preindustrial abundance of tropospheric ozone: Implications for radiative forcing calculations. <i>Journal of Geophysical Research</i> , 2001 , 106, 3389-3399		90

83	Sensitivity of surface ozone over China to 2000–2050 global changes of climate and emissions. <i>Atmospheric Environment</i> , 2013 , 75, 374-382	5.3	82
82	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science & Technology</i> , 2017 , 51, 5650-5657	10.3	80
81	Factors controlling variability in the oxidative capacity of the troposphere since the Last Glacial Maximum. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3589-3622	6.8	76
80	Observing atmospheric formaldehyde (HCHO) from space: validation and intercomparison of six retrievals from four satellites (OMI, GOME2A, GOME2B, OMPS) with SEACRS aircraft observations over the Southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13477-13490	6.8	75
79	Anthropogenic emissions of highly reactive volatile organic compounds in eastern Texas inferred from oversampling of satellite (OMI) measurements of HCHO columns. <i>Environmental Research Letters</i> , 2014 , 9, 114004	6.2	72
78	Influence of synoptic patterns on surface ozone variability over the eastern United States from 1980 to 2012. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10925-10938	6.8	71
77	Impacts of future climate change and effects of biogenic emissions on surface ozone and particulate matter concentrations in the United States. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4789-4806	6.8	71
76	Climate response to the increase in tropospheric ozone since preindustrial times: A comparison between ozone and equivalent CO ₂ forcings. <i>Journal of Geophysical Research</i> , 2004 , 109,		67
75	Effect of CO ₂ inhibition on biogenic isoprene emission: Implications for air quality under 2000 to 2050 changes in climate, vegetation, and land use. <i>Geophysical Research Letters</i> , 2013 , 40, 3479-3483	4.9	66
74	Annual distributions and sources of Arctic aerosol components, aerosol optical depth, and aerosol absorption. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4107-4124	4.4	65
73	Impact of 2000–2050 climate change on fine particulate matter (PM _{2.5}) air quality inferred from a multi-model analysis of meteorological modes. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11329-11337	6.8	65
72	Synoptic meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in major metropolitan regions of China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6733-6748	6.8	64
71	Impact of increasing heat waves on U.S. ozone episodes in the 2050s: Results from a multimodel analysis using extreme value theory. <i>Geophysical Research Letters</i> , 2016 , 43, 4017-4025	4.9	61
70	Assessing NO Concentration and Model Uncertainty with High Spatiotemporal Resolution across the Contiguous United States Using Ensemble Model Averaging. <i>Environmental Science & Technology</i> , 2020 , 54, 1372-1384	10.3	61
69	Eastern Asian emissions of anthropogenic halocarbons deduced from aircraft concentration data. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		58
68	Kudzu (<i>Pueraria montana</i>) invasion doubles emissions of nitric oxide and increases ozone pollution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10115-9	11.5	56
67	Using satellite observations of tropospheric NO ₂ columns to infer long-term trends in US NO _x emissions: The importance of accounting for the free tropospheric NO ₂ background. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8863-8878	6.8	55
66	Multidecadal trends in aerosol radiative forcing over the Arctic: Contribution of changes in anthropogenic aerosol to Arctic warming since 1980. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3573-3594	4.4	48

65	Intercontinental influence of NO _x and CO emissions on particulate matter air quality. <i>Atmospheric Environment</i> , 2011 , 45, 3318-3324	5.3	47
64	Contribution of Hydroxymethane Sulfonate to Ambient Particulate Matter: A Potential Explanation for High Particulate Sulfur During Severe Winter Haze in Beijing. <i>Geophysical Research Letters</i> , 2018 , 45, 11,969	4.9	46
63	Influence of 2000–2050 climate change on particulate matter in the United States: results from a new statistical model. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4355-4367	6.8	44
62	Projected effect of 2000–2050 changes in climate and emissions on aerosol levels in China and associated transboundary transport. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7937-7960	6.8	41
61	Drought-sensitivity of fine dust in the US Southwest: Implications for air quality and public health under future climate change. <i>Environmental Research Letters</i> , 2018 , 13, 054025	6.2	38
60	Impact of 2050 climate change on North American wildfire: consequences for ozone air quality. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10033-10055	6.8	38
59	Diagnosing spatial biases and uncertainties in global fire emissions inventories: Indonesia as regional case study. <i>Remote Sensing of Environment</i> , 2020 , 237, 111557	13.2	37
58	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021 , 14, 77-84	18.3	37
57	Long-term (2005–2014) trends in formaldehyde (HCHO) columns across North America as seen by the OMI satellite instrument: Evidence of changing emissions of volatile organic compounds. <i>Geophysical Research Letters</i> , 2017 , 44, 7079-7086	4.9	36
56	Who Among the Elderly Is Most Vulnerable to Exposure to and Health Risks of Fine Particulate Matter From Wildfire Smoke?. <i>American Journal of Epidemiology</i> , 2017 , 186, 730-735	3.8	35
55	Halogen chemistry reduces tropospheric O ₃ radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1557-1569	6.8	35
54	Effects of Increasing Aridity on Ambient Dust and Public Health in the U.S. Southwest Under Climate Change. <i>GeoHealth</i> , 2019 , 3, 127-144	5	32
53	Sensitivity of population smoke exposure to fire locations in Equatorial Asia. <i>Atmospheric Environment</i> , 2015 , 102, 11-17	5.3	32
52	An Ensemble Learning Approach for Estimating High Spatiotemporal Resolution of Ground-Level Ozone in the Contiguous United States. <i>Environmental Science & Technology</i> , 2020 , 54, 11037-11047 ^{10.3}		32
51	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2615-2651	6.8	31
50	Projection of wildfire activity in southern California in the mid-21st century. <i>Climate Dynamics</i> , 2014 , 43, 1973-1991	4.2	29
49	Regional air quality impacts of future fire emissions in Sumatra and Kalimantan. <i>Environmental Research Letters</i> , 2015 , 10, 054010	6.2	28
48	Isotopic evidence of multiple controls on atmospheric oxidants over climate transitions. <i>Nature</i> , 2017 , 546, 133-136	50.4	27

47	What Controls Springtime Fine Dust Variability in the Western United States? Investigating the 2002-2015 Increase in Fine Dust in the U.S. Southwest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 12,449-12,467	4.4	25
46	Seasonal prediction of US summertime ozone using statistical analysis of large scale climate patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2491-2496	11.5	24
45	Future fire emissions associated with projected land use change in Sumatra. <i>Global Change Biology</i> , 2015 , 21, 345-62	11.4	24
44	Insignificant effect of climate change on winter haze pollution in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17489-17496	6.8	23
43	Paleo-Perspectives on Potential Future Changes in the Oxidative Capacity of the Atmosphere Due to Climate Change and Anthropogenic Emissions. <i>Current Pollution Reports</i> , 2015 , 1, 57-69	7.6	22
42	Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases. <i>Science</i> , 2019 , 363,	33.3	22
41	Excess of COVID-19 cases and deaths due to fine particulate matter exposure during the 2020 wildfires in the United States. <i>Science Advances</i> , 2021 , 7,	14.3	22
40	Air Quality and Health Impact of Future Fossil Fuel Use for Electricity Generation and Transport in Africa. <i>Environmental Science & Technology</i> , 2019 , 53, 13524-13534	10.3	21
39	Future respiratory hospital admissions from wildfire smoke under climate change in the Western US. <i>Environmental Research Letters</i> , 2016 , 11, 124018	6.2	20
38	Fires, Smoke Exposure, and Public Health: An Integrative Framework to Maximize Health Benefits From Peatland Restoration. <i>GeoHealth</i> , 2019 , 3, 178-189	5	19
37	Predicting the Impact of Climate Change on Severe Wintertime Particulate Pollution Events in Beijing Using Extreme Value Theory. <i>Geophysical Research Letters</i> , 2019 , 46, 1824-1830	4.9	15
36	Global Importance of Hydroxymethanesulfonate in Ambient Particulate Matter: Implications for Air Quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032706	4.4	14
35	Effects of El Niño on summertime ozone air quality in the eastern United States. <i>Geophysical Research Letters</i> , 2017 , 44, 12543-12550	4.9	13
34	Evolution of chlorine and nitrogen species in the lower stratosphere during Antarctic spring: Use of tracers to determine chemical change. <i>Journal of Geophysical Research</i> , 1997 , 102, 21479-21491		13
33	Vibrational circular dichroism study of (2S,3S)-dideuteriobutyrolactone. Synthesis, normal mode analysis, and comparison of experimental and calculated spectra. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 10139-10149		12
32	Role of the Madden-Julian Oscillation in the Transport of Smoke From Sumatra to the Malay Peninsula During Severe Non-El Niño Haze Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 6282-6294	4.4	12
31	Uncertainties in isoprene photochemistry and emissions: implications for the oxidative capacity of past and present atmospheres and for climate forcing agents. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7977-7998	6.8	11
30	Trends and spatial shifts in lightning fires and smoke concentrations in response to 21st century climate over the national forests and parks of the western United States. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8827-8838	6.8	9

29	Effects of postdepositional processing on nitrogen isotopes of nitrate in the Greenland Ice Sheet Project 2 ice core. <i>Geophysical Research Letters</i> , 2015 , 42, 5346-5354	4.9	8
28	Response of summertime odd nitrogen and ozone at 17 mbar to Mount Pinatubo aerosol over the southern midlatitudes: Observations from the Halogen Occultation Experiment. <i>Journal of Geophysical Research</i> , 1997 , 102, 23573-23582		8
27	Climatic effects of 1950-2050 changes in US anthropogenic aerosols [Part 1: Aerosol trends and radiative forcing		8
26	Strong Dependence of U.S. Summertime Air Quality on the Decadal Variability of Atlantic Sea Surface Temperatures. <i>Geophysical Research Letters</i> , 2017 , 44, 12527-12535	4.9	7
25	A Future Short of Breath? Possible Effects of Climate Change on Smog. <i>Environment</i> , 2007 , 49, 32-43	2.8	7
24	Global search for temporal shifts in fire activity: potential human influence on southwest Russia and north Australia fire seasons. <i>Environmental Research Letters</i> , 2021 , 16, 044023	6.2	6
23	Detection of delay in post-monsoon agricultural burning across Punjab, India: potential drivers and consequences for air quality. <i>Environmental Research Letters</i> , 2021 , 16, 014014	6.2	6
22	How Do Brazilian Fires Affect Air Pollution and Public Health?. <i>GeoHealth</i> , 2020 , 4, e2020GH000331	5	5
21	Air pollution from wildfires and human health vulnerability in Alaskan communities under climate change. <i>Environmental Research Letters</i> , 2020 , 15,	6.2	5
20	Meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in the United States: implications for PM _{2.5} ; sensitivity to climate change		5
19	Crop residue burning practices across north India inferred from household survey data: Bridging gaps in satellite observations. <i>Atmospheric Environment: X</i> , 2020 , 8, 100091	2.8	4
18	Air pollution accountability of energy transitions: the relative importance of point source emissions and wind fields in exposure changes. <i>Environmental Research Letters</i> , 2019 , 14,	6.2	4
17	Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. <i>Science Advances</i> , 2021 , 7,	14.3	4
16	Deconvolution of experimental differential cross sections. <i>Journal of Chemical Physics</i> , 1989 , 91, 5402-5411		3
15	Impacts of changes in land use and land cover on atmospheric chemistry and air quality over the 21st century		3
14	Climatic effects of 1950-2050 changes in US anthropogenic aerosols [Part 2: Climate response		3
13	Impact of 2000-2050 climate change on fine particulate matter (PM _{2.5}) air quality inferred from a multi-model analysis of meteorological modes		3
12	Sensitivity of US air quality to mid-latitude cyclone frequency and implications of 1980-2006 climate change		3

11	Response of dust emissions in southwestern North America to 21st century trends in climate, CO ₂ ; fertilization, and land use: implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 57-68	6.8	3
10	Impacts of future climate change and effects of biogenic emissions on surface ozone and particulate matter concentrations in US		2
9	Uncertainties in isoprene photochemistry and emissions: implications for the oxidative capacity of past and present atmospheres and for trends in climate forcing agents		2
8	Factors controlling variability in the oxidative capacity of the troposphere since the Last Glacial Maximum		2
7	GCAP 2.0: a global 3-D chemical-transport model framework for past, present, and future climate scenarios. <i>Geoscientific Model Development</i> , 2021 , 14, 5789-5823	6.3	2
6	Strong influence of 2000-2050 climate change on particulate matter in the United States: Results from a new statistical model 2016 ,		1
5	Synoptic meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in major metropolitan regions of China 2017 ,		1
4	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury		1
3	Influence of synoptic patterns on surface ozone variability over the Eastern United States from 1980 to 2012		1
2	Effect of climate change on winter haze pollution in Beijing: uncertain and likely small 2018 ,		1
1	Rapid rise in premature mortality due to anthropogenic air pollution in fast-growing tropical cities from 2005 to 2018.. <i>Science Advances</i> , 2022 , 8, eabm4435	14.3	0