

# Loretta J Mickley

## List of Publications by Year in descending order

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109  
papers

12,549  
citations

20759

60  
h-index

27345

106  
g-index

125  
all docs

125  
docs citations

125  
times ranked

10219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global modeling of tropospheric chemistry with assimilated meteorology: Model description and evaluation. <i>Journal of Geophysical Research</i> , 2001, 106, 23073-23095.	3.3	1,927
2	Correlations between fine particulate matter (PM2.5) and meteorological variables in the United States: Implications for the sensitivity of PM2.5 to climate change. <i>Atmospheric Environment</i> , 2010, 44, 3976-3984.	1.9	803
3	Global mortality from outdoor fine particle pollution generated by fossil fuel combustion: Results from GEOS-Chem. <i>Environmental Research</i> , 2021, 195, 110754.	3.7	391
4	An ensemble-based model of PM2.5 concentration across the contiguous United States with high spatiotemporal resolution. <i>Environment International</i> , 2019, 130, 104909.	4.8	370
5	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, .	3.3	356
6	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, .	3.3	319
7	Why are there large differences between models in global budgets of tropospheric ozone?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	257
8	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.	2.2	249
9	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.	3.3	228
10	Tropospheric bromine chemistry: implications for present and pre-industrial ozone and mercury. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6723-6740.	1.9	223
11	Particulate air pollution from wildfires in the Western US under climate change. <i>Climatic Change</i> , 2016, 138, 655-666.	1.7	219
12	Biogenic secondary organic aerosol over the United States: Comparison of climatological simulations with observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	210
13	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.	1.9	200
14	Effects of future climate change on regional air pollution episodes in the United States. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	199
15	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	192
16	Effects of 2000–2050 global change on ozone air quality in the United States. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
17	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.	1.7	175
18	Wildfire-specific Fine Particulate Matter and Risk of Hospital Admissions in Urban and Rural Counties. <i>Epidemiology</i> , 2017, 28, 77-85.	1.2	175

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19	Meteorological modes of variability for fine particulate matter (PM <sub>2.5</sub> ) air quality in the United States: implications for PM <sub>2.5</sub> ; sensitivity to climate change. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3131-3145.	1.9	165
20	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.	1.9	164
21	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.	1.9	157
22	Assessing NO <sub>2</sub> Concentration and Model Uncertainty with High Spatiotemporal Resolution across the Contiguous United States Using Ensemble Model Averaging. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1372-1384.	4.6	155
23	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.	3.3	153
24	Interactions between tropospheric chemistry and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2003, 108, AAC 1-1.	3.3	152
25	Indonesian wildfires of 1997: Impact on tropospheric chemistry. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	140
26	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.	1.9	140
27	Radiative forcing from tropospheric ozone calculated with a unified chemistry-climate model. <i>Journal of Geophysical Research</i> , 1999, 104, 30153-30172.	3.3	139
28	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.	2.2	139
29	Climatic effects of 1950–2050 changes in US anthropogenic aerosols – Part 2: Climate response. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3349-3362.	1.9	136
30	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.	1.9	135
31	Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States. <i>Environmental Science &amp; Technology</i> , 2017, 51, 5650-5657.	4.6	131
32	Global radiative forcing of coupled tropospheric ozone and aerosols in a unified general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	128
33	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, .	3.3	118
34	Wildfires drive interannual variability of organic carbon aerosol in the western U.S. in summer. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	116
35	An Ensemble Learning Approach for Estimating High Spatiotemporal Resolution of Ground-Level Ozone in the Contiguous United States. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11037-11047.	4.6	114
36	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.	3.3	110

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37	Sensitivity of surface ozone over China to 2000–2050 global changes of climate and emissions. <i>Atmospheric Environment</i> , 2013, 75, 374-382.	1.9	107
38	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, .	3.3	106
39	Uncertainty in preindustrial abundance of tropospheric ozone: Implications for radiative forcing calculations. <i>Journal of Geophysical Research</i> , 2001, 106, 3389-3399.	3.3	102
40	Observing atmospheric formaldehyde (HCHO) from space: validation and intercomparison of six retrievals from four satellites (OMI, GOME2A, GOME2B, OMPS) with SEAC&lt;sup&gt;4&lt;/sup&lt;/sup&gt;RS aircraft observations over the southeast US. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13477-13490.	1.9	99
41	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.	2.2	95
42	Synoptic meteorological modes of variability for fine particulate matter (PM&lt;sub&gt;2.5&lt;/sub&lt;/sub&gt;) air quality in major metropolitan regions of China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6733-6748.	1.9	95
43	Enhanced aerosol particle growth sustained by high continental chlorine emission in India. <i>Nature Geoscience</i> , 2021, 14, 77-84.	5.4	94
44	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.	1.9	92
45	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, .	4.7	91
46	Using satellite observations of tropospheric NO&lt;sub&gt;2&lt;/sub&lt;/sub&gt; columns to infer long-term trends in US NO&lt;sub&gt;2&lt;/sub&lt;/sub&gt; emissions:Âthe importance of accounting for the free tropospheric NO&lt;sub&gt;2&lt;/sub&lt;/sub&gt; background. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8863-8878.	1.9	89
47	Diagnosing spatial biases and uncertainties in global fire emissions inventories: Indonesia as regional case study. <i>Remote Sensing of Environment</i> , 2020, 237, 111557.	4.6	89
48	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.	1.9	88
49	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.	1.9	85
50	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.	1.5	85
51	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.	1.2	79
52	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.	1.6	79
53	Impact of 2000–2050 climate change on fine particulate matter (PM&lt;sub&gt;2.5&lt;/sub&lt;/sub&gt;) air quality inferred from a multi-model analysis of meteorological modes. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11329-11337.	1.9	77
54	Effect of CO<sub>2</sub> 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.	1.5	75

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55	Climate response to the increase in tropospheric ozone since preindustrial times: A comparison between ozone and equivalent CO <sub>2</sub> forcings. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	73
56	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, 10115-10119.	3.3	73
57	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.	1.5	72
58	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.	1.2	70
59	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.	1.5	68
60	Eastern Asian emissions of anthropogenic halocarbons deduced from aircraft concentration data. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	67
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.	2.2	66
62	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.	1.9	65
63	Intercontinental influence of NO <sub>x</sub> and CO emissions on particulate matter air quality. <i>Atmospheric Environment</i> , 2011, 45, 3318-3324.	1.9	57
64	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.	1.9	56
65	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.	1.9	54
66	Impact of 2050 climate change on North American wildfire: consequences for ozone air quality. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10033-10055.	1.9	54
67	Isotopic evidence of multiple controls on atmospheric oxidants over climate transitions. <i>Nature</i> , 2017, 546, 133-136.	13.7	49
68	Air Quality and Health Impact of Future Fossil Fuel Use for Electricity Generation and Transport in Africa. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13524-13534.	4.6	44
69	Halogen chemistry reduces tropospheric O <sub>3</sub> radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1557-1569.	1.9	43
70	Sensitivity of population smoke exposure to fire locations in Equatorial Asia. <i>Atmospheric Environment</i> , 2015, 102, 11-17.	1.9	39
71	Projection of wildfire activity in southern California in the mid-twenty-first century. <i>Climate Dynamics</i> , 2014, 43, 1973-1991.	1.7	38
72	Insignificant effect of climate change on winter haze pollution in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17489-17496.	1.9	37

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73	Regional air quality impacts of future fire emissions in Sumatra and Kalimantan. <i>Environmental Research Letters</i> , 2015, 10, 054010.	2.2	36
74	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	1.9	36
75	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.	3.1	34
76	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.	1.2	34
77	Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases. <i>Science</i> , 2019, 363, .	6.0	34
78	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.	3.3	33
79	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.	1.9	32
80	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.	4.7	31
81	Fires, Smoke Exposure, and Public Health: An Integrative Framework to Maximize Health Benefits From Peatland Restoration. <i>GeoHealth</i> , 2019, 3, 178-189.	1.9	30
82	Future respiratory hospital admissions from wildfire smoke under climate change in the Western US. <i>Environmental Research Letters</i> , 2016, 11, 124018.	2.2	29
83	Future fire emissions associated with projected land use change in Sumatra. <i>Global Change Biology</i> , 2015, 21, 345-362.	4.2	28
84	Global Importance of Hydroxymethanesulfonate in Ambient Particulate Matter: Implications for Air Quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032706.	1.2	28
85	Effects of El Niño on Summertime Ozone Air Quality in the Eastern United States. <i>Geophysical Research Letters</i> , 2017, 44, 12543-12550.	1.5	23
86	Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. <i>Science Advances</i> , 2021, 7, .	4.7	22
87	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.	1.5	21
88	Catalytic role of formaldehyde in particulate matter formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	19
89	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.	1.5	17
90	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.	1.2	17

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91	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.	2.9	16
92	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.	3.3	15
93	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.	2.2	15
94	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.	0.8	14
95	How Do Brazilian Fires Affect Air Pollution and Public Health?. <i>GeoHealth</i> , 2020, 4, e2020GH000331.	1.9	14
96	Air pollution from wildfires and human health vulnerability in Alaskan communities under climate change. <i>Environmental Research Letters</i> , 2020, 15, 094019.	2.2	13
97	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.	1.9	12
98	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.	2.2	12
99	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.	1.3	11
100	A new approach for determining optimal placement of PM <sub>2.5</sub> air quality sensors: case study for the contiguous United States. <i>Environmental Research Letters</i> , 2022, 17, 034034.	2.2	11
101	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.	3.3	9
102	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.	1.5	9
103	Response of dust emissions in southwestern North America to 21st century trends in climate, CO <sub>2</sub> , fertilization, and land use: implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 57-68.	1.9	8
104	A Future Short of Breath? Possible Effects of Climate Change on Smog. <i>Environment</i> , 2007, 49, 32-43.	0.8	7
105	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, 115003.	2.2	7
106	Aerosol-Radiation Interactions in China in Winter: Competing Effects of Reduced Shortwave Radiation and Cloud-Snowfall-Albedo Feedbacks Under Rapidly Changing Emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
107	Estimating the health effects of environmental mixtures using principal stratification. <i>Statistics in Medicine</i> , 2022, 41, 1815-1828.	0.8	4
108	Deconvolution of experimental differential cross sections. <i>Journal of Chemical Physics</i> , 1989, 91, 5402-5411.	1.2	3

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109	The Association Between PM2.5 and Blood Pressure in Indonesia. ISEE Conference Abstracts, 2021, 2021, .	0.0	0