

Lee T Murray

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.

62 papers	2,210 citations	23 h-index	46 g-index
96 ext. papers	2,769 ext. citations	7.8 avg, IF	4.86 L-index

#	Paper	IF	Citations
62	Evaluating urban methane emissions from space using TROPOMI methane and carbon monoxide observations. <i>Remote Sensing of Environment</i> , 2022 , 268, 112756	13.2	3
61	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-53	6.1	6
60	Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , 2021 , 14, 5977-5997	6.3	0
59	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
58	An improved method for atmospheric $\delta^{14}\text{C}$ measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2055-2063	4	2
57	US COVID-19 Shutdown Demonstrates Importance of Background NO in Inferring NO Emissions From Satellite NO Observations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092783	4.9	14
56	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093808	4.9	2
55	CMIP6 Historical Simulations (1850–2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2019MS002034	7.1	12
54	Effects of Ozone Isotopologue Formation on the Clumped-Isotope Composition of Atmospheric O ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034770	4.4	1
53	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13729-13746	6.8	1
52	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
51	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
50	A machine learning examination of hydroxyl radical differences among model simulations for CCM1-1. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1341-1361	6.8	11
49	Tropospheric ozone in CMIP6 Simulations 2020 ,		5
48	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12905-12920	6.8	19
47	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphere. Validation of Large-Scale Transport and Evaluation of Climate Response. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033151	4.4	7
46	GISS-E2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002025		2

45	Isotopic constraint on the twentieth-century increase in tropospheric ozone. <i>Nature</i> , 2019 , 570, 224-227	50.4	36
44	Average versus high surface ozone levels over the continental U.S.A.: Model bias, background influences, and interannual variability 2018 ,		1
43	Tropospheric Ozone Assessment Report: Assessment of global-scale model performance for global and regional ozone distributions, variability, and trends. <i>Elementa</i> , 2018 , 6,	3.6	121
42	Cloud impacts on photochemistry: building a climatology of photolysis rates from the Atmospheric Tomography mission. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16809-16828	6.8	18
41	Nitrogen oxides in the global upper troposphere: interpreting cloud-sliced NO ₂ observations from the OMI satellite instrument. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17017-17027	6.8	15
40	Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,429	4.4	16
39	Average versus high surface ozone levels over the continental USA: model bias, background influences, and interannual variability. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12123-12140	6.8	12
38	How well can global chemistry models calculate the reactivity of short-lived greenhouse gases in the remote troposphere, knowing the chemical composition. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2653-2668	4	9
37	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017 , 44, 542-552	4.9	41
36	Isotopic evidence of multiple controls on atmospheric oxidants over climate transitions. <i>Nature</i> , 2017 , 546, 133-136	50.4	27
35	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9 2017 ,		1
34	Evaluating a Space-Based Indicator of Surface Ozone-NO _x -VOC Sensitivity Over Midlatitude Source Regions and Application to Decadal Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10-461	4.4	103
33	Drought impacts on photosynthesis, isoprene emission and atmospheric formaldehyde in a mid-latitude forest. <i>Atmospheric Environment</i> , 2017 , 167, 190-201	5.3	11
32	Evaluating Modeled Impact Metrics for Human Health, Agriculture Growth, and Near-Term Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 13,506-13,524	4.4	4
31	Global atmospheric chemistry – which air matters. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9081-9102	25.8	22
30	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
29	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9. <i>Geoscientific Model Development</i> , 2017 , 10, 4129-4144	6.3	17
28	Strong influence of 2000–2050 climate change on particulate matter in the United States: Results from a new statistical model 2016 ,		1

27	Isotopic ordering in atmospheric O ₂ as a tracer of ozone photochemistry and the tropical atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,541	4.4	9
26	Evaluation of UTLS carbon monoxide simulations in GMI and GEOS-Chem chemical transport models using Aura MLS observations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5641-5663	6.8	10
25	Lightning NO _x and Impacts on Air Quality. <i>Current Pollution Reports</i> , 2016 , 2, 115-133	7.6	66
24	Fugitive emissions from the Bakken shale illustrate role of shale production in global ethane shift. <i>Geophysical Research Letters</i> , 2016 , 43, 4617-4623	4.9	57
23	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
22	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
21	Investigating the sensitivity of surface-level nitrate seasonality in Antarctica to primary sources using a global model. <i>Atmospheric Environment</i> , 2014 , 89, 757-767	5.3	28
20	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
19	Tropospheric nitric acid columns from the IASI satellite instrument interpreted with a chemical transport model: Implications for parameterizations of nitric oxide production by lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10068-10079	4.4	11
18	Transport analysis and source attribution of seasonal and interannual variability of CO in the tropical upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 129-146	6.8	28
17	Interannual variability in tropical tropospheric ozone and OH: The role of lightning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,468-11,480	4.4	58
16	Public health, climate, and economic impacts of desulfurizing jet fuel. <i>Environmental Science & Technology</i> , 2012 , 46, 4275-82	10.3	66
15	Optimized regional and interannual variability of lightning in a global chemical transport model constrained by LIS/OTD satellite data. <i>Journal of Geophysical Research</i> , 2012 , 117,		230
14	A tropospheric ozone maximum over the equatorial Southern Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4279-4296	6.8	10
13	Impacts of midlatitude precursor emissions and local photochemistry on ozone abundances in the Arctic. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		46
12	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2°/2/3° horizontal resolution over North America. <i>Atmospheric Environment</i> , 2011 , 45, 6769-6776	5.3	158
11	Analysis of tropical tropospheric ozone, carbon monoxide, and water vapor during the 2006 El Niño using TES observations and the GEOS-Chem model. <i>Journal of Geophysical Research</i> , 2009 , 114,		78
10	North American influence on tropospheric ozone and the effects of recent emission reductions: Constraints from ICARTT observations. <i>Journal of Geophysical Research</i> , 2009 , 114,		53

9	Should the United States Resume Reprocessing? A Pro and Con. <i>Bulletin of the Atomic Scientists</i> , 2009 , 65, 30-41	1.6	
8	Effects of the 2006 El Niño on tropospheric composition as revealed by data from the Tropospheric Emission Spectrometer (TES). <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	102
7	Biogenic versus anthropogenic sources of CO in the United States. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	116
6	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , 2007 , 112,		257
5	Transport analysis and source attribution of seasonal and interannual variability of CO in the tropical upper troposphere and lower stratosphere		2
4	Uncertainties in isoprene photochemistry and emissions: implications for the oxidative capacity of past and present atmospheres and for trends in climate forcing agents		2
3	Grid-Stretching Capability for the GEOS-Chem 13.0.0 Atmospheric Chemistry Model		3
2	A Tropospheric ozone maximum over the equatorial southern Indian Ocean		1
1	Factors controlling variability in the oxidative capacity of the troposphere since the Last Glacial Maximum		2