

Louisa K Emmons

List of Publications by Year in descending order

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209
papers

22,115
citations

18259

61
h-index

11217

134
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366
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366
docs citations

366
times ranked

13574
citing authors

#	ARTICLE	IF	CITATIONS
1	The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions. <i>Geoscientific Model Development</i> , 2012, 5, 1471-1492.	3.7	2,709
2	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). <i>Geoscientific Model Development</i> , 2010, 3, 43-67.	3.7	1,632
3	The Fire INventory from NCAR (FINN): a high resolution global model to estimate the emissions from open burning. <i>Geoscientific Model Development</i> , 2011, 4, 625-641.	3.7	1,335
4	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	3.7	1,143
5	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.2	866
6	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. <i>Geoscientific Model Development</i> , 2012, 5, 369-411.	3.7	658
7	Transport and Chemical Evolution over the Pacific (TRACE-P) aircraft mission: Design, execution, and first results. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.2	515
8	Observational constraints on recent increases in the atmospheric CH ₄ burden. <i>Geophysical Research Letters</i> , 2009, 36, .	3.9	506
9	The Arctic Research of the Composition of the Troposphere from Aircraft and Satellites (ARCTAS) mission: design, execution, and first results. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5191-5212.	4.9	424
10	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.2	389
11	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	3.3	311
12	Mapping Asian anthropogenic emissions of non-methane volatile organic compounds to multiple chemical mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5617-5638.	4.9	303
13	MOZART, a global chemical transport model for ozone and related chemical tracers: 2. Model results and evaluation. <i>Journal of Geophysical Research</i> , 1998, 103, 28291-28335.	3.2	266
14	Satellite-observed pollution from Southern Hemisphere biomass burning. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.2	263
15	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.2	261
16	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882.	3.7	222
17	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.2	214
18	Validation of Measurements of Pollution in the Troposphere (MOPITT) CO retrievals with aircraft in situ profiles. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.2	209

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19	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	207
20	Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite, aircraft, and model perspective. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.2	201
21	Inventory of boreal fire emissions for North America in 2004: Importance of peat burning and pyroconvective injection. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	199
22	Transport pathways of carbon monoxide in the Asian summer monsoon diagnosed from Model of Ozone and Related Tracers (MOZART). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.2	194
23	Chemical isolation in the Asian monsoon anticyclone observed in Atmospheric Chemistry Experiment (ACE-FTS) data. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 757-764.	4.9	179
24	Data composites of airborne observations of tropospheric ozone and its precursors. <i>Journal of Geophysical Research</i> , 2000, 105, 20497-20538.	3.2	176
25	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	3.9	173
26	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7257-7287.	4.9	170
27	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). <i>Geoscientific Model Development</i> , 2015, 8, 1395-1426.	3.7	169
28	Effects of aerosols on tropospheric oxidants: A global model study. <i>Journal of Geophysical Research</i> , 2001, 106, 22931-22964.	3.2	166
29	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. <i>Geophysical Research Letters</i> , 2005, 32, .	3.9	163
30	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. <i>Nature Geoscience</i> , 2016, 9, 490-495.	11.7	160
31	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.2	156
32	Vertical resolution and information content of CO profiles retrieved by MOPITT. <i>Geophysical Research Letters</i> , 2004, 31, .	3.9	139
33	The MOPITT version 4 CO product: Algorithm enhancements, validation, and long-term stability. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.2	139
34	Biomass burning and urban air pollution over the Central Mexican Plateau. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4929-4944.	4.9	138
35	Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2353-2375.	4.9	134
36	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2016, 9, 1853-1890.	3.7	129

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37	Impacts of the fall 2007 California wildfires on surface ozone: Integrating local observations with global model simulations. <i>Geophysical Research Letters</i> , 2008, 35, .	3.9	125
38	Validation of MOPITT Version 5 thermalâ€infrared, nearâ€infrared, and multispectral carbon monoxide profile retrievals for 2000â€2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6710-6725.	3.3	125
39	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14547-14579.	4.9	125
40	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1795-1803.	4.9	124
41	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.2	120
42	Ozone production from the 2004 North American boreal fires. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.2	116
43	How emissions, climate, and land use change will impact mid-century air quality over the United States: a focus on effects at national parks. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2805-2823.	4.9	106
44	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	105
45	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4187-4218.	4.9	103
46	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7475-7497.	4.9	102
47	Measurements of Pollution in the Troposphere (MOPITT) validation exercises during summer 2004 field campaigns over North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	100
48	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4323-4351.	3.7	100
49	Influence of the choice of gas-phase mechanism on predictions of key gaseous pollutants during the AQMEII phase-2 intercomparison. <i>Atmospheric Environment</i> , 2015, 115, 553-568.	4.2	98
50	The Koreaâ€United States Air Quality (KORUS-AQ) field study. <i>Elementa</i> , 2021, 9, 1-27.	3.2	96
51	The MOPITT Version 6 product: algorithm enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3623-3632.	3.1	94
52	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1769-1790.	4.9	92
53	Evaluating ethane and methane emissions associated with the development of oil and natural gas extraction in North America. <i>Environmental Research Letters</i> , 2016, 11, 044010.	5.2	86
54	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.	4.9	85

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55	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. Atmospheric Chemistry and Physics, 2010, 10, 6195-6212.	4.9	82
56	CO source contribution analysis for California during ARCTAS-CARB. Atmospheric Chemistry and Physics, 2011, 11, 7515-7532.	4.9	82
57	Southern Hemisphere carbon monoxide interannual variability observed by Terra/Measurement of Pollution in the Troposphere (MOPITT). Journal of Geophysical Research, 2006, 111, .	3.2	79
58	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. Journal of Geophysical Research, 2003, 108, TOP 4-1.	3.2	76
59	Evaluation of CO simulations and the analysis of the CO budget for Europe. Journal of Geophysical Research, 2004, 109, .	3.2	76
60	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	4.9	75
61	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. Environmental Fluid Mechanics, 2009, 9, 43-58.	1.7	73
62	Effect of sulfate aerosol on tropospheric NO _x and ozone budgets: Model simulations and TOPSE evidence. Journal of Geophysical Research, 2003, 108, .	3.2	72
63	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. Geophysical Research Letters, 2008, 35, .	3.9	70
64	Ozone pollution from future ship traffic in the Arctic northern passages. Geophysical Research Letters, 2006, 33, .	3.9	68
65	Satellite constraints of nitrogen oxide (NO _x) emissions from India based on OMI observations and WRF-Chem simulations. Geophysical Research Letters, 2013, 40, 423-428.	3.9	68
66	Effects of lightning on reactive nitrogen and nitrogen reservoir species in the troposphere. Journal of Geophysical Research, 2001, 106, 3167-3178.	3.2	66
67	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. Atmospheric Chemistry and Physics, 2020, 20, 12905-12920.	4.9	65
68	Tagged ozone mechanism for MOZART-4, CAM-chem and other chemical transport models. Geoscientific Model Development, 2012, 5, 1531-1542.	3.7	64
69	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. Atmospheric Chemistry and Physics, 2014, 14, 10013-10060.	4.9	64
70	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	4.9	64
71	Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. Journal of Geophysical Research, 2003, 108, .	3.2	63
72	Quantifying black carbon deposition over the Greenland ice sheet from forest fires in Canada. Geophysical Research Letters, 2017, 44, 7965-7974.	3.9	61

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73	HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10497-10520.	4.9	59
74	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, .	7.5	58
75	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.2	57
76	Response of a coupled chemistry-climate model to changes in aerosol emissions: Global impact on the hydrological cycle and the tropospheric burdens of OH, ozone, and NOx. <i>Geophysical Research Letters</i> , 2005, 32, .	3.9	57
77	Chemical Feedback From Decreasing Carbon Monoxide Emissions. <i>Geophysical Research Letters</i> , 2017, 44, 9985-9995.	3.9	57
78	New observations of a large concentration of ClO in the springtime lower stratosphere over Antarctica and its implications for ozone-depleting chemistry. <i>Journal of Geophysical Research</i> , 1989, 94, 11423-11428.	3.2	56
79	Effect of different emission inventories on modeled ozone and carbon monoxide in Southeast Asia. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12983-13012.	4.9	56
80	Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5695-5710.	4.9	54
81	Air pollution trends measured from Terra: CO and AOD over industrial, fire-prone, and background regions. <i>Remote Sensing of Environment</i> , 2021, 256, 112275.	11.0	54
82	Analysis of the Summer 2004 ozone budget over the United States using Intercontinental Transport Experiment Ozone-sonde Network Study (IONS) observations and Model of Ozone and Related Tracers (MOZART-4) simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.2	53
83	Balance of Emission and Dynamical Controls on Ozone During the Korea-United States Air Quality Campaign From Multiconstituent Satellite Data Assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 387-413.	3.3	53
84	The impact of future emission policies on tropospheric ozone using a parameterised approach. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8953-8978.	4.9	52
85	Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5721-5750.	4.9	51
86	Multi-model study of HTAP-II on sulfur and nitrogen deposition. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6847-6866.	4.9	51
87	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2001, 38, 277-294.	3.1	49
88	Comprehensive isoprene and terpene gas-phase chemistry improves simulated surface ozone in the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3739-3776.	4.9	49
89	Multi-model intercomparisons of air quality simulations for the KORUS-AQ campaign. <i>Elementa</i> , 2021, 9, .	3.2	49
90	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020, 8, .	3.2	48

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91	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.	4.9	44
92	A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2091-2115.	4.9	43
93	The isotopic record of Northern Hemisphere atmospheric carbon monoxide since 1950: implications for the CO budget. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4365-4377.	4.9	43
94	Toward a chemical reanalysis in a coupled chemistry-climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7310-7343.	3.3	43
95	Global and regional radiative forcing from 20% reductions in BC, OC and SO ₂ an HTAP2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13579-13599.	4.9	42
96	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019, 46, 5601-5613.	3.9	42
97	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14617-14647.	4.9	41
98	Identification of CO plumes from MOPITT data: Application to the August 2000 Idaho-Montana forest fires. <i>Geophysical Research Letters</i> , 2003, 30, .	3.9	40
99	Evaluation of operational radiances for the Measurements of Pollution in the Troposphere (MOPITT) instrument CO thermal band channels. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.2	40
100	Evaluation and intercomparison of wildfire smoke forecasts from multiple modeling systems for the 2019 Williams Flats fire. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14427-14469.	4.9	39
101	Pollution transport from North America to Greenland during summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3825-3848.	4.9	35
102	The effects of intercontinental emission sources on European air pollution levels. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13655-13672.	4.9	35
103	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9641-9663.	4.9	35
104	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1135-1150.	4.9	34
105	Intercontinental transport of anthropogenic sulfur dioxide and other pollutants: An infrared remote sensing case study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	3.9	33
106	Effects of trans-Eurasian transport of air pollutants on surface ozone concentrations over Western China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,338.	3.3	33
107	Hydrocarbons in the upper troposphere and lower stratosphere observed from ACE-FTS and comparisons with WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1964-1980.	3.3	32
108	Multi-model simulation of CO and HCHO in the Southern Hemisphere: comparison with observations and impact of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7217-7245.	4.9	32

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109	Interpreting space-based trends in carbon monoxide with multiple models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7285-7294.	4.9	32
110	Application of a bias estimator for the improved assimilation of Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.2	30
111	Impact of the summer 2004 Alaska fires on top of the atmosphere clear-sky radiation fluxes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.2	30
112	Air quality simulations of wildfires in the Pacific Northwest evaluated with surface and satellite observations during the summers of 2007 and 2008. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12533-12551.	4.9	30
113	Harmonized Emissions Component (HEMCO) 3.0 as a versatile emissions component for atmospheric models: application in the GEOS-Chem, NASA GEOS, WRF-GC, CESM2, NOAA GEFS-Aerosol, and NOAA UFS models. <i>Geoscientific Model Development</i> , 2021, 14, 5487-5506.	3.7	30
114	Satellite constraints of Nitrogen Oxide (NO _x) emissions from India based on OMI observations and WRF-Chem simulations. <i>Geophysical Research Letters</i> , 2013, 40, 423.	3.9	30
115	Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2227-2246.	4.9	29
116	Ozone variability in the troposphere and the stratosphere from the first 6 years of IASI observations (2008-2013). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5721-5743.	4.9	29
117	Evaluating the Impact of Chemical Complexity and Horizontal Resolution on Tropospheric Ozone Over the Conterminous US With a Global Variable Resolution Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.7	29
118	The Fire Inventory from NCAR version 2.5: an updated global fire emissions model for climate and chemistry applications. <i>Geoscientific Model Development</i> , 2023, 16, 3873-3891.	3.7	29
119	Quantifying the causes of differences in tropospheric OH within global models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1983-2007.	3.3	28
120	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. <i>Geophysical Research Letters</i> , 2021, 48, .	3.9	28
121	Attributing and quantifying carbon monoxide sources affecting the Eastern Mediterranean: a combined satellite, modelling, and synoptic analysis study. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1067-1082.	4.9	25
122	Assessing the impacts of assimilating IASI and MOPITT CO retrievals using CESM-CAM-Chem and DART. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,501.	3.3	25
123	Australia's Black Saturday fires – Comparison of techniques for estimating emissions from vegetation fires. <i>Atmospheric Environment</i> , 2012, 60, 262-270.	4.2	24
124	Isocyanic acid in a global chemistry transport model: Tropospheric distribution, budget, and identification of regions with potential health impacts. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.2	24
125	Quantifying the contribution of inflow on surface ozone over California during summer 2008. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,282.	3.3	24
126	A simplified parameterization of isoprene-epoxydiol-derived secondary organic aerosol (IEPOX-SOA) for global chemistry and climate models: a case study with GEOS-Chem v11-02-rc. <i>Geoscientific Model Development</i> , 2019, 12, 2983-3000.	3.7	23

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127	Assimilation of the 2000–2001 CO MOPITT retrievals with optimized surface emissions. <i>Geophysical Research Letters</i> , 2004, 31, .	3.9	22
128	Variability of springtime transpacific pollution transport during 2000–2006: the INTEX-B mission in the context of previous years. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1345-1359.	4.9	22
129	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-Chem Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2796-2822.	3.3	22
130	Simulated Global Climate Response to Tropospheric Ozone-Induced Changes in Plant Transpiration. <i>Geophysical Research Letters</i> , 2018, 45, 13070-13079.	3.9	21
131	Source contributions to sulfur and nitrogen deposition – an HTAP II multi-model study on hemispheric transport. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12223-12240.	4.9	21
132	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6455-6478.	4.9	21
133	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.	3.3	20
134	Global Atmospheric Budget of Acetone: Air–Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032553.	3.3	20
135	Development and Evaluation of Chemistry–Aerosol–Climate Model CAM5–Chem–MAM7–MOSAIC: Global Atmospheric Distribution and Radiative Effects of Nitrate Aerosol. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002346.	3.7	20
136	Limited effect of anthropogenic nitrogen oxides on secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13487-13506.	4.9	19
137	Characterization of carbon monoxide, methane and nonmethane hydrocarbons in emerging cities of Saudi Arabia and Pakistan and in Singapore. <i>Journal of Atmospheric Chemistry</i> , 2017, 74, 87-113.	3.1	19
138	Ocean Biogeochemistry Control on the Marine Emissions of Brominated Very Short-Lived Ozone-Depleting Substances: A Machine-Learning Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12319-12339.	3.3	19
139	Effects of Fire Diurnal Variation and Plume Rise on U.S. Air Quality During FIREX-AQ and WE-CAN Based on the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA _{v0}). <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	19
140	Regional air-quality forecasting for the Pacific Northwest using MOPITT/TERRA assimilated carbon monoxide MOZART-4 forecasts as a near real-time boundary condition. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5603-5615.	4.9	18
141	Future changes in isoprene-epoxydiol-derived secondary organic aerosol (IEPOX SOA) under the Shared Socioeconomic Pathways: the importance of physicochemical dependency. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 3395-3425.	4.9	18
142	13 years of MOPITT operations: lessons from MOPITT retrieval algorithm development. <i>Annals of Geophysics</i> , 2014, , .	1.0	18
143	Measurements of stratospheric hydrogen cyanide at McMurdo Station, Antarctica: Further evidence of winter stratospheric subsidence?. <i>Journal of Geophysical Research</i> , 1989, 94, 16773-16777.	3.2	17
144	An overview of millimeter-wave spectroscopic measurements of chlorine monoxide at Thule, Greenland, February–March, 1992: Vertical profiles, diurnal variation, and longer-term trends. <i>Geophysical Research Letters</i> , 1994, 21, 1271-1274.	3.9	17

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145	Relationship between Measurements of Pollution in the Troposphere (MOPITT) and in situ observations of CO based on a large-scale feature sampled during TRACE-P. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.2	17
146	Using an Inverse Model to Reconcile Differences in Simulated and Observed Global Ethane Concentrations and Trends Between 2008 and 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,262.	3.3	17
147	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035203.	3.3	17
148	Stratospheric ClO profiles from McMurdo Station, Antarctica, spring 1992. <i>Journal of Geophysical Research</i> , 1995, 100, 3049.	3.2	16
149	Improving regional ozone modeling through systematic evaluation of errors using the aircraft observations during the International Consortium for Atmospheric Research on Transport and Transformation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.2	16
150	Estimated total emissions of trace gases from the Canberra Wildfires of 2003: a new method using satellite measurements of aerosol optical depth & the MOZART chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5739-5748.	4.9	16
151	Decoupling peroxyacetyl nitrate from ozone in Chinese outflows observed at Gosan Climate Observatory. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10619-10631.	4.9	16
152	Links Between Carbon Monoxide and Climate Indices for the Southern Hemisphere and Tropical Fire Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9786-9800.	3.3	16
153	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1337-1356.	3.1	16
154	Inferring carbon monoxide pollution changes from space-based observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.2	15
155	Seasonal changes in the tropospheric carbon monoxide profile over the remote Southern Hemisphere evaluated using multi-model simulations and aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3217-3239.	4.9	15
156	Radiative Forcing of Nitrate Aerosols From 1975 to 2010 as Simulated by MOSAIC Module in CESM2-MAM4. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034809.	3.3	15
157	Quantifying Nitrous Acid Formation Mechanisms Using Measured Vertical Profiles During the CalNex 2010 Campaign and 1D Column Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034689.	3.3	14
158	Arctic chlorine monoxide observations during spring 1993 over Thule, Greenland, and implications for ozone depletion. <i>Journal of Geophysical Research</i> , 1994, 99, 25697.	3.2	13
159	Long-range transport impacts on surface aerosol concentrations and the contributions to haze events in China: an HTAP2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15581-15600.	4.9	13
160	CESM/CAM5 improvement and application: comparison and evaluation of updated CB05_GE and MOZART-4 gas-phase mechanisms and associated impacts on global air quality and climate. <i>Geoscientific Model Development</i> , 2015, 8, 3999-4025.	3.7	12
161	Joint Application of Concentration and $\delta^{18}O$ to Investigate the Global Atmospheric CO Budget. <i>Atmosphere</i> , 2015, 6, 547-578.	2.3	12
162	Evaluating simplified chemical mechanisms within present-day simulations of the Community Earth System Model version 1.2 with CAM4 (CESM1.2 CAM-chem): MOZART-4 vs. Reduced Hydrocarbon vs. Super-Fast chemistry. <i>Geoscientific Model Development</i> , 2018, 11, 4155-4174.	3.7	12

#	ARTICLE	IF	CITATIONS
163	Analysis of secondary organic aerosol simulation bias in the Community Earth System Model (CESM2.1). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8003-8021.	4.9	12
164	N ₂ O as an indicator of Arctic vortex dynamics: Correlations with O ₃ over Thule, Greenland in February and March, 1992. <i>Geophysical Research Letters</i> , 1994, 21, 1275-1278.	3.9	10
165	Comparison of upper tropospheric carbon monoxide from MOPITT, ACE-FTS, and HIPPO-QCLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 14,144.	3.3	10
166	Importance of different parameterization changes for the updated dust cycle modeling in the Community Atmosphere Model (version 6.1). <i>Geoscientific Model Development</i> , 2022, 15, 8181-8219.	3.7	10
167	Reconciling Observed and Predicted Tropical Rainforest OH Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	9
168	Observation of a strong inverse temperature dependence for the opacity of atmospheric water vapor in the MM continuum near 280 GHz. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1990, 11, 469-488.	0.8	8
169	Large interannual variations in nonmethane volatile organic compound emissions based on measurements of carbon monoxide. <i>Geophysical Research Letters</i> , 2013, 40, 221-226.	3.9	8
170	Attribution of Stratospheric and Tropospheric Ozone Changes Between 1850 and 2014 in CMIP6 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	8
171	Maximizing ozone signals among chemical, meteorological, and climatological variability. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8373-8388.	4.9	7
172	The impact of Los Angeles Basin pollution and stratospheric intrusions on the surrounding San Gabriel Mountains as seen by surface measurements, lidar, and numerical models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6129-6153.	4.9	7
173	Assessing sub-grid variability within satellite pixels over urban regions using airborne mapping spectrometer measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4639-4655.	3.1	7
174	Preface to a Special Issue "Megacity Air Pollution Studies (MAPS)". <i>Aerosol and Air Quality Research</i> , 2018, 18, I-IV.	2.1	6
175	The Role of Snow in Controlling Halogen Chemistry and Boundary Layer Oxidation During Arctic Spring: A 1D Modeling Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6
176	Fate of Pollution Emitted During the 2015 Indonesian Fire Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033474.	3.3	5
177	Implementation and evaluation of the GEOS-Chem chemistry module version 13.1.2 within the Community Earth System Model v2.1. <i>Geoscientific Model Development</i> , 2022, 15, 8669-8704.	3.7	5
178	Impact of solar geoengineering on wildfires in the 21st century in CESM2/WACCM6. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 5467-5486.	4.9	5
179	Comparison of Urban Air Quality Simulations During the KORUS-AQ Campaign With Regionally Refined Versus Global Uniform Grids in the Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA) Version 0. <i>Journal of Advances in Modeling Earth Systems</i> , 2023, 15, .	3.7	5
180	Global Scale Inversions from MOPITT CO and MODIS AOD. <i>Remote Sensing</i> , 2023, 15, 4813.	4.1	5

#	ARTICLE	IF	CITATIONS
181	Variation of atmospheric CO ₂ , CH ₄ , and O ₃ at high northern latitude during 2004–2009: Observations and model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,024.	3.3	4
182	Texture and Composition of Titan's Equatorial Sand Seas Inferred From Cassini SAR Data: Implications for Aeolian Transport and Dune Morphodynamics. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3140-3163.	3.5	4
183	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13729-13746.	4.9	4
184	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements – corrected. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 99-117.	4.9	3
185	Capturing High-Resolution Air Pollution Features Using the Multi-Scale Infrastructure for Chemistry and Aerosols Version 0 (MUSICA _{v0}) Global Modeling System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	3.3	3
186	Exploring the Factors Controlling the Long-Term Trend (1988–2019) of Surface Organic Aerosols in the Continental United States by Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	3.3	3
187	A new simplified parameterization of secondary organic aerosol in the Community Earth System Model Version 2 (CESM2; CAM6.3). <i>Geoscientific Model Development</i> , 2023, 16, 3893-3906.	3.7	3
188	Improving nitrogen cycling in a land surface model (CLM5) to quantify soil N ₂ O, NO, and NH ₃ emissions from enhanced rock weathering with croplands. <i>Geoscientific Model Development</i> , 2023, 16, 5783-5801.	3.7	3
189	Global expansion of wildland-urban interface (WUI) and WUI fires: insights from a multiyear worldwide unified database (WUWUI). <i>Environmental Research Letters</i> , 2024, 19, 044028.	5.2	3
190	Measurement of atmospheric opacity at 278 GHz at McMurdo Station, Antarctica in austral spring seasons, 1986 and 1987. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1990, 11, 463-467.	0.8	2
191	Measurement of the cooling capacity of an RMC-Cryosystems Model LTS 4.5-025 closed-cycle helium refrigerator. <i>Review of Scientific Instruments</i> , 1991, 62, 1309-1310.	1.4	1
192	Development and Evaluation of E3SM-MOSAIC: Spatial Distributions and Radiative Effects of Nitrate Aerosol. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.7	1
193	Application of the Multi-Scale Infrastructure for Chemistry and Aerosols version 0 (MUSICA _{v0}) for air quality research in Africa. <i>Geoscientific Model Development</i> , 2023, 16, 6001-6028.	3.7	1
194	Procedure for computer-controlled milling of accurate surfaces of revolution for millimeter and far-infrared mirrors. <i>Applied Optics</i> , 1991, 30, 3163.	1.8	0
195	Data assimilation of carbon monoxide in the troposphere. , 2006, 6299, 84.		0
196	The impact of MOPITT data on tropospheric chemistry. , 2010, , .		0
197	Retrieval algorithm development and product validation for TERRA/MOPITT. , 2014, , .		0
198	The Significance of Strategy: The influence in regards to the approach in the establishment of exploration and exploitation. <i>Korean Review of Corporation Management</i> , 2020, 11, 11-23.	0.0	0

#	ARTICLE	IF	CITATIONS
199	Healthy Lifestyle Does Matter for Community-Dwelling Adults Pursuing Quality of Life. <i>Innovation in Aging</i> , 2021, 5, 347-347.	0.1	0
200	The International Global Atmospheric Chemistry project comments on the revised WHO air quality guidelines. <i>Environmental Research Letters</i> , 0, , .	5.2	0
201	Modeling the Air Pollution and Aerosol-PM Interactions Over China Using a Variable-Resolution Global Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2023, 128, .	3.3	0
202	Measurements and Modeling of the Interhemispheric Differences of Atmospheric Chlorinated Very Short-Lived Substances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2024, 129, .	3.3	0
203	Sensitivity of the WRF-Chem v4.4 simulations of ozone and formaldehyde and their precursors to multiple bottom-up emission inventories over East Asia during the KORUS-AQ 2016 field campaign. <i>Geoscientific Model Development</i> , 2024, 17, 1931-1955.	3.7	0
204	Advantages of assimilating multispectral satellite retrievals of atmospheric composition: a demonstration using MOPITT carbon monoxide products. <i>Atmospheric Measurement Techniques</i> , 2024, 17, 1941-1963.	3.1	0
205	Multiscale CO Budget Estimates Across South America: Quantifying Local Sources and Long Range Transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2024, 129, .	3.3	0
206	Large transboundary health impact of Arctic wildfire smoke. <i>Communications Earth & Environment</i> , 2024, 5, .	6.7	0
207	Nonlinear and Non-Gaussian Ensemble Assimilation of MOPITT CO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2024, 129, .	3.3	0
208	Intercomparison of GEOS-Chem and CAM-chem tropospheric oxidant chemistry within the Community Earth System Model version 2 (CESM2). <i>Atmospheric Chemistry and Physics</i> , 2024, 24, 8607-8624.	4.9	0
209	Quantifying the diurnal variation in atmospheric NO ₂ from Geostationary Environment Monitoring Spectrometer (GEMS) observations. <i>Atmospheric Chemistry and Physics</i> , 2024, 24, 8943-8961.	4.9	0