

Louisa Emmons

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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.

220
papers

15,792
citations

59
h-index

123
g-index

306
ext. papers

18,485
ext. citations

5.9
avg, IF

5.98
L-index

#	Paper	IF	Citations
220	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	6.3	1751
219	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	6.3	1258
218	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	6.3	935
217	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		741
216	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. <i>Geoscientific Model Development</i> , 2012 , 5, 369-411	6.3	519
215	Transport and Chemical Evolution over the Pacific (TRACE-P) aircraft mission: Design, execution, and first results. <i>Journal of Geophysical Research</i> , 2003 , 108,		461
214	Observational constraints on recent increases in the atmospheric CH ₄ burden. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	439
213	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	6.8	364
212	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001916	7.1	358
211	Asian monsoon transport of pollution to the stratosphere. <i>Science</i> , 2010 , 328, 611-3	33.3	331
210	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003 , 108,		317
209	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		231
208	Mapping Asian anthropogenic emissions of non-methane volatile organic compounds to multiple chemical mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5617-5638	6.8	223
207	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006 , 111,		220
206	Satellite-observed pollution from Southern Hemisphere biomass burning. <i>Journal of Geophysical Research</i> , 2006 , 111,		215
205	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		189
204	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004 , 109,		177

203	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
202	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,		170
201	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,		170
200	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		168
199	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7257-7287	6.8	155
198	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	6.8	154
197	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	150
196	Effects of aerosols on tropospheric oxidants: A global model study. <i>Journal of Geophysical Research</i> , 2001 , 106, 22931-22964		146
195	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	145
194	Data composites of airborne observations of tropospheric ozone and its precursors. <i>Journal of Geophysical Research</i> , 2000 , 105, 20497-20538		144
193	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART-4. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		128
192	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12380-12403	4.4	126
191	Vertical resolution and information content of CO profiles retrieved by MOPITT. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	125
190	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	6.3	119
189	Biomass burning and urban air pollution over the Central Mexican Plateau. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4929-4944	6.8	119
188	The MOPITT version 4 CO product: Algorithm enhancements, validation, and long-term stability. <i>Journal of Geophysical Research</i> , 2010 , 115,		115
187	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	6.8	112
186	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	18.3	109

185	Impacts of the Fall 2007 California wildfires on surface ozone: Integrating local observations with global model simulations. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	108
184	Validation of MOPITT Version 5 thermal-infrared, near-infrared, and multispectral carbon monoxide profile retrievals for 2000-2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6710-6725	4.4	103
183	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1795-1803	6.8	102
182	Ozone production from the 2004 North American boreal fires. <i>Journal of Geophysical Research</i> , 2006 , 111,		98
181	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003 , 108,		98
180	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	6.3	94
179	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
178	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,		88
177	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	6.8	80
176	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001882	7.1	78
175	The MOPITT Version 6 product: algorithm enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3623-3632	4	76
174	Technical Note: Ozone-sonde climatology between 1995 and 2011: description, evaluation and applications. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7475-7497	6.8	75
173	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6195-6212	6.8	70
172	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1769-1790	6.8	69
171	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	6.2	68
170	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	5.3	67
169	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3575-3603	6.8	67
168	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. <i>Journal of Geophysical Research</i> , 2003 , 108, TOP 4-1		67

167	Southern Hemisphere carbon monoxide interannual variability observed by Terra/Measurement of Pollution in the Troposphere (MOPITT). <i>Journal of Geophysical Research</i> , 2006 , 111,		63
166	Evaluation of CO simulations and the analysis of the CO budget for Europe. <i>Journal of Geophysical Research</i> , 2004 , 109,		63
165	CO source contribution analysis for California during ARCTAS-CARB. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7515-7532	6.8	62
164	Effect of sulfate aerosol on tropospheric NO _x and ozone budgets: Model simulations and TOPSE evidence. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
163	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	60
162	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. <i>Environmental Fluid Mechanics</i> , 2009 , 9, 43-58	2.2	59
161	Effects of lightning on reactive nitrogen and nitrogen reservoir species in the troposphere. <i>Journal of Geophysical Research</i> , 2001 , 106, 3167-3178		57
160	Ozone pollution from future ship traffic in the Arctic northern passages. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	56
159	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6721-6744	6.8	52
158	Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. <i>Journal of Geophysical Research</i> , 2003 , 108,		52
157	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	6.8	51
156	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	7.1	50
155	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. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10013-10060	6.8	49
154	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 NO _x . <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	49
153	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
152	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		47
151	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, 423-428	4.9	44
150	Tagged ozone mechanism for MOZART-4, CAM-chem and other chemical transport models. <i>Geoscientific Model Development</i> , 2012 , 5, 1531-1542	6.3	44

149	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,		44
148	On the Role of Lightning NO _x in the Formation of Tropospheric Ozone Plumes: A Global Model Perspective. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 277-294	3.2	44
147	Effect of different emission inventories on modeled ozone and carbon monoxide in Southeast Asia. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12983-13012	6.8	43
146	Chemical Feedback From Decreasing Carbon Monoxide Emissions. <i>Geophysical Research Letters</i> , 2017 , 44, 9985-9995	4.9	39
145	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14547-14579	6.8	38
144	Global and regional radiative forcing from 20 % reductions in BC, OC and SO ₂ in HTAP2 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13579-13599	6.8	37
143	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	6.8	37
142	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	6.8	36
141	The Fire INventory from NCAR (FINN) in a high resolution global model to estimate the emissions from open burning 2010 ,		36
140	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	4.4	36
139	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	6.8	35
138	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		35
137	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	6.8	34
136	Biomass burning influence on high-latitude tropospheric ozone and reactive nitrogen in summer 2008: a multi-model analysis based on POLMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6047-6068	6.8	34
135	Identification of CO plumes from MOPITT data: Application to the August 2000 Idaho-Montana forest fires. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	34
134	The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions 2012 ,		31
133	Pollution transport from North America to Greenland during summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3825-3848	6.8	30
132	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	6.8	30

131	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	4.4	29
130	The impact of future emission policies on tropospheric ozone using a parameterised approach. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8953-8978	6.8	29
129	Atmospheric Acetaldehyde: Importance of Air-Sea Exchange and a Missing Source in the Remote Troposphere. <i>Geophysical Research Letters</i> , 2019 , 46, 5601-5613	4.9	28
128	Quantifying black carbon deposition over the Greenland ice sheet from forest fires in Canada. <i>Geophysical Research Letters</i> , 2017 , 44, 7965-7974	4.9	28
127	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	4.9	28
126	Impact of the summer 2004 Alaska fires on top of the atmosphere clear-sky radiation fluxes. <i>Journal of Geophysical Research</i> , 2008 , 113,		28
125	Satellite constraints of nitrogen oxide (NOx) emissions from India based on OMI observations and WRF-Chem simulations 2013 , 40, 423		28
124	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, 12,338-12,354	4.4	27
123	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	4.4	27
122	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
121	The Korea-United States Air Quality (KORUS-AQ) field study.. <i>Elementa</i> , 2021 , 9, 1-27	3.6	27
120	Multi-model study of HTAP-II on sulfur and nitrogen deposition. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6847-6866	6.8	27
119	Interpreting space-based trends in carbon monoxide with multiple models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7285-7294	6.8	24
118	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,		23
117	The effects of intercontinental emission sources on European air pollution levels. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13655-13672	6.8	23
116	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, n/a-n/a		22
115	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.6	22
114	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	6.8	21

113	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	6.8	21
112	Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2227-2246	6.8	21
111	Evolution of Asian aerosols during transpacific transport in INTEX-B		21
110	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4)		21
109	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	6.8	20
108	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	6.8	20
107	Australia's Black Saturday fires [Comparison of techniques for estimating emissions from vegetation fires. <i>Atmospheric Environment</i> , 2012 , 60, 262-270	5.3	19
106	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
105	Source contributions to Northern Hemisphere CO and black carbon during spring and summer 2008 from POLARCAT and START08/preHIPPO observations and MOZART-4		19
104	Quantifying the causes of differences in tropospheric OH within global models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1983-2007	4.4	18
103	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	6.8	18
102	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	6.8	18
101	Effective radiative forcing from emissions of reactive gases and aerosols [a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 853-874	6.8	18
100	Quantifying the contribution of inflow on surface ozone over California during summer 2008. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,282-12,299	4.4	17
99	Assimilation of the 2000-2001 CO MOPITT retrievals with optimized surface emissions. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	17
98	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7461-7488	4.4	17
97	CAM-chem: description and evaluation of interactive atmospheric chemistry in CESM 2011 ,		16
96	13 years of MOPITT operations: lessons from MOPITT retrieval algorithm development. <i>Annals of Geophysics</i> , 2014 ,	1.1	16

95	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	3.2	15
94	Limited effect of anthropogenic nitrogen oxides on secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13487-13506	6.8	15
93	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	4.4	15
92	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	13.2	15
91	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	6.8	14
90	Inferring carbon monoxide pollution changes from space-based observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		14
89	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,		14
88	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	4.9	14
87	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	6.3	13
86	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	6.8	13
85	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	6.8	13
84	Stratospheric ClO profiles from McMurdo Station, Antarctica, spring 1992. <i>Journal of Geophysical Research</i> , 1995 , 100, 3049		13
83	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	6.8	13
82	Biomass burning and urban air pollution over the Central Mexican Plateau		13
81	Multi-model intercomparisons of air quality simulations for the KORUS-AQ campaign. <i>Elementa</i> , 2021 , 9,	3.6	13
80	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	4.4	12
79	Arctic chlorine monoxide observations during spring 1993 over Thule, Greenland, and implications for ozone depletion. <i>Journal of Geophysical Research</i> , 1994 , 99, 25697		12
78	Measurements of stratospheric hydrogen cyanide at McMurdo Station, Antarctica: Further evidence of winter stratospheric subsidence?. <i>Journal of Geophysical Research</i> , 1989 , 94, 16773		12

77	Source contributions to sulfur and nitrogen deposition in an HTAP II multi-model study on hemispheric transport. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12223-12240	6.8	12
76	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	4.4	11
75	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	4.4	11
74	Decoupling peroxyacetyl nitrate from ozone in Chinese outflows observed at Gosan Climate Observatory. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10619-10631	6.8	11
73	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,		11
72	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	6.8	11
71	Simulated Global Climate Response to Tropospheric Ozone-Induced Changes in Plant Transpiration. <i>Geophysical Research Letters</i> , 2018 , 45, 13070-13079	4.9	11
70	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	6.8	10
69	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	6.3	10
68	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1743-E1760	6.1	10
67	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations		10
66	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	4.9	9
65	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic		9
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41	Transpacific pollution transport during INTEX-B: spring 2006 in context to previous years		4
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23	Evaluating Simplified Chemical Mechanisms within CESM Version 1.2 CAM-chem (CAM4): MOZART-4 vs. Reduced Hydrocarbon vs. Super-Fast Chemistry		2
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12	Modeling regional aerosol variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns		1
11	Multi-model simulation of CO and HCHO in the Southern Hemisphere: biogenic emissions and model uncertainties		1
10	Trans-Pacific transport and evolution of aerosols and trace gases from Asia during the INTEX-B field campaign		1
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