

J-F Lamarque

List of Publications by Year in descending order

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Version: 2024-02-01

324
papers

61,808
citations

2098

100
h-index

1155

229
g-index

487
all docs

487
docs citations

487
times ranked

42336
citing authors

#	ARTICLE	IF	CITATIONS
1	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011, 109, 5-31.	1.7	5,871
2	Global Biodiversity: Indicators of Recent Declines. <i>Science</i> , 2010, 328, 1164-1168.	6.0	3,642
3	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011, 109, 213-241.	1.7	2,948
4	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3461-3482.	1.3	2,084
5	Historical (1850–2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7017-7039.	1.9	2,020
6	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1339-1360.	1.7	1,848
7	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1333-1349.	1.7	1,723
8	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	5.4	1,649
9	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.	1.3	1,590
10	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1777-1813.	1.9	1,202
11	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
12	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.	3.3	848
13	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	846
14	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	3.7	824
15	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. <i>Geoscientific Model Development</i> , 2012, 5, 709-739.	1.3	807
16	The HadGEM2-ES implementation of CMIP5 centennial simulations. <i>Geoscientific Model Development</i> , 2011, 4, 543-570.	1.3	803
17	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1853-1877.	1.9	779
18	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	743

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19	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980â€“2010 period. <i>Climatic Change</i> , 2011, 109, 163-190.	1.7	740
20	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). <i>Journal of Climate</i> , 2013, 26, 7372-7391.	1.2	706
21	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1815-1834.	1.9	697
22	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. <i>Geoscientific Model Development</i> , 2012, 5, 369-411.	1.3	633
23	Influence of carbonâ€“nitrogen cycle coupling on land model response to CO ₂ fertilization and climate variability. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	624
24	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2063-2090.	1.9	570
25	Co-benefits of mitigating global greenhouse gas emissions for future air quality and human health. <i>Nature Climate Change</i> , 2013, 3, 885-889.	8.1	505
26	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012, 41, 6663.	18.7	428
27	Aerosol indirect effects â€“ general circulation model intercomparison and evaluation with satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8697-8717.	1.9	418
28	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. <i>Biogeosciences</i> , 2009, 6, 2099-2120.	1.3	399
29	Sensitivity of chemical tracers to meteorological parameters in the MOZARTâ€“3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	395
30	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2939-2974.	1.9	395
31	Global and regional evolution of short-lived radiatively-active gases and aerosols in the Representative Concentration Pathways. <i>Climatic Change</i> , 2011, 109, 191-212.	1.7	393
32	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013, 6, 179-206.	1.3	388
33	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013, 8, 034005.	2.2	381
34	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	378
35	Interactive chemistry in the Laboratoire de MÃ©tÃ©orologie Dynamique general circulation model: Description and background tropospheric chemistry evaluation. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	365
36	Global distribution and trends of tropospheric ozone: An observation-based review. <i>Elementa</i> , 2014, 2, .	1.1	365

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37	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3063-3085.	1.9	361
38	NITROGEN DEPOSITION ONTO THE UNITED STATES AND WESTERN EUROPE: SYNTHESIS OF OBSERVATIONS AND MODELS. , 2005, 15, 38-57.		357
39	The Global Atmospheric Environment for the Next Generation. <i>Environmental Science & Technology</i> , 2006, 40, 3586-3594.	4.6	338
40	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	335
41	Impact of anthropogenic atmospheric nitrogen and sulfur deposition on ocean acidification and the inorganic carbon system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14580-14585.	3.3	332
42	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. <i>Science Advances</i> , 2020, 6, eaba1981.	4.7	321
43	Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX. <i>Journal of Geophysical Research</i> , 2001, 106, 7313-7336.	3.3	298
44	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5277-5298.	1.9	288
45	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	280
46	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7997-8018.	1.9	279
47	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	266
48	Variations in the predicted spatial distribution of atmospheric nitrogen deposition and their impact on carbon uptake by terrestrial ecosystems. <i>Journal of Geophysical Research</i> , 1997, 102, 15849-15866.	3.3	264
49	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
50	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2563-2587.	1.9	257
51	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	254
52	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337.	1.5	249
53	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11267-11292.	1.9	244
54	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5029-5060.	1.2	243

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55	Climate System Response to External Forcings and Climate Change Projections in CCSM4. <i>Journal of Climate</i> , 2012, 25, 3661-3683.	1.2	241
56	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021, 12, 253-293.	2.7	236
57	The effect of harmonized emissions on aerosol properties in global models – an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4489-4501.	1.9	228
58	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2423-2434.	1.9	223
59	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9451-9472.	1.9	215
60	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	213
61	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.	3.3	209
62	Aerosol Impacts on Climate and Biogeochemistry. <i>Annual Review of Environment and Resources</i> , 2011, 36, 45-74.	5.6	207
63	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,036.	1.2	202
64	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 585-607.	1.3	202
65	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	200
66	Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1423-1447.	1.9	193
67	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882.	1.3	189
68	Fast and slow precipitation responses to individual climate forcings: A PDRMIP multimodel study. <i>Geophysical Research Letters</i> , 2016, 43, 2782-2791.	1.5	179
69	Future global mortality from changes in air pollution attributable to climate change. <i>Nature Climate Change</i> , 2017, 7, 647-651.	8.1	177
70	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
71	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	171
72	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	171

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73	Cross-Tropopause Mass Exchange and Potential Vorticity Budget in a Simulated Tropopause Folding. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 2246-2269.	0.6	166
74	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	163
75	Emissions of gases and particles from biomass burning during the 20th century using satellite data and an historical reconstruction. <i>Atmospheric Environment</i> , 2010, 44, 1469-1477.	1.9	162
76	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.	1.3	159
77	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3939-3949.	1.9	157
78	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12465-12477.	1.9	157
79	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART-4. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	154
80	Community climate simulations to assess avoided impacts in 1.5 and 2°C futures. <i>Earth System Dynamics</i> , 2017, 8, 827-847.	2.7	153
81	Review of the formulation of present-generation stratospheric chemistry climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
82	Interactive ozone and methane chemistry in GISS-E2 historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2653-2689.	1.9	150
83	Acid rain and ozone depletion from pulsed Siberian Traps magmatism. <i>Geology</i> , 2014, 42, 67-70.	2.0	149
84	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5719-5736.	1.2	149
85	Projected changes of extreme weather events in the eastern United States based on a high resolution climate modeling system. <i>Environmental Research Letters</i> , 2012, 7, 044025.	2.2	148
86	Iodine chemistry in the troposphere and its effect on ozone. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13119-13143.	1.9	148
87	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
88	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
89	Tropospheric ozone evolution between 1890 and 1990. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	134
90	A review of surface ozone in the polar regions. <i>Atmospheric Environment</i> , 2007, 41, 5138-5161.	1.9	133

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91	A 4-D climatology (1979–2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1287-1314.	1.2	131
92	Ubiquity of human-induced changes in climate variability. <i>Earth System Dynamics</i> , 2021, 12, 1393-1411.	2.7	131
93	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2361-2371.	1.7	129
94	Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,061.	1.2	128
95	Multi-model ensemble simulations of tropospheric NO ₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2943-2979.	1.9	127
96	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2607-2634.	1.9	125
97	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.	1.3	122
98	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	119
99	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6949-6981.	1.9	119
100	Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11462-11481.	1.2	118
101	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4505-4510.	3.3	118
102	PDRMIP: A Precipitation Driver and Response Model Intercomparison Project Protocol and Preliminary Results. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1185-1198.	1.7	116
103	Ozone production from the 2004 North American boreal fires. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	114
104	First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,616.	1.2	114
105	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018, 45, 12023-12031.	1.5	113
106	The impact of emission and climate change on ozone in the United States under representative concentration pathways (RCPs). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9607-9621.	1.9	108
107	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.	1.9	105
108	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 0, , 130204122247009.	1.7	103

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109	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7475-7497.	1.9	101
110	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9847-9862.	1.9	101
111	Three-dimensional study of the relative contributions of the different nitrogen sources in the troposphere. <i>Journal of Geophysical Research</i> , 1996, 101, 22955-22968.	3.3	98
112	Assimilation of satellite observations of long-lived chemical species in global chemistry transport models. <i>Journal of Geophysical Research</i> , 2000, 105, 29135-29144.	3.3	97
113	The Climate Response to Stratospheric Aerosol Geoengineering Can Be Tailored Using Multiple Injection Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,574.	1.2	95
114	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13391-13410.	1.9	90
115	The Arctic response to remote and local forcing of black carbon. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 211-224.	1.9	87
116	Nitrogen Availability Reduces CMIP5 Projections of Twenty-First-Century Land Carbon Uptake*. <i>Journal of Climate</i> , 2015, 28, 2494-2511.	1.2	87
117	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.	1.3	87
118	Inverse modeling of carbon monoxide surface emissions using Climate Monitoring and Diagnostics Laboratory network observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 10-1.	3.3	86
119	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. <i>Nature Communications</i> , 2018, 9, 1452.	5.8	86
120	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	1.9	85
121	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. <i>Nature Geoscience</i> , 2018, 11, 949-954.	5.4	85
122	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 583-593.	1.9	84
123	A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. <i>Journal of Climate</i> , 2018, 31, 4429-4447.	1.2	83
124	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6195-6212.	1.9	82
125	Sensitivity of Aerosol Distribution and Climate Response to Stratospheric SO ₂ Injection Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,591.	1.2	79
126	Sea-salt aerosol response to climate change: Last Glacial Maximum, preindustrial, and doubled carbon dioxide climates. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	78

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127	Evaluation of CO simulations and the analysis of the CO budget for Europe. Journal of Geophysical Research, 2004, 109, .	3.3	75
128	Multimodel projections of climate change from short-lived emissions due to human activities. Journal of Geophysical Research, 2008, 113, .	3.3	74
129	Decline and recovery of total column ozone using a multimodel time series analysis. Journal of Geophysical Research, 2010, 115, .	3.3	74
130	PORT, a CESM tool for the diagnosis of radiative forcing. Geoscientific Model Development, 2013, 6, 469-476.	1.3	74
131	Gas hydrates: entrance to a methane age or climate threat?. Environmental Research Letters, 2009, 4, 034007.	2.2	73
132	Global carbon emissions from biomass burning in the 20th century. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	72
133	Projections of future summertime ozone over the U.S.. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5559-5582.	1.2	69
134	Stratospheric Dynamical Response and Ozone Feedbacks in the Presence of SO ₂ Injections. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,557.	1.2	69
135	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. Geophysical Research Letters, 2008, 35, .	1.5	68
136	Using transport diagnostics to understand chemistry climate model ozone simulations. Journal of Geophysical Research, 2011, 116, .	3.3	68
137	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. Journal of Geophysical Research, 2010, 115, .	3.3	67
138	Ozone pollution from future ship traffic in the Arctic northern passages. Geophysical Research Letters, 2006, 33, .	1.5	66
139	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. Journal of Geophysical Research, 2010, 115, .	3.3	66
140	Wildfire air pollution hazard during the 21st Century. Atmospheric Chemistry and Physics, 2017, 17, 9223-9236.	1.9	66
141	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	1.9	65
142	The role of circulation features on black carbon transport into the Arctic in the Community Atmosphere Model version 5 (CAM5). Journal of Geophysical Research D: Atmospheres, 2013, 118, 4657-4669.	1.2	64
143	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. Atmospheric Chemistry and Physics, 2015, 15, 2215-2224.	1.9	63
144	Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657.	1.2	63

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145	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	62
146	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4057-4072.	1.9	61
147	How Will Air Quality Change in South Asia by 2050?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1840-1864.	1.2	61
148	Hemispheric asymmetries and seasonal variations of the lowermost stratospheric water vapor and ozone derived from SAGE II data. <i>Journal of Geophysical Research</i> , 1997, 102, 28177-28184.	3.3	60
149	Tagged ozone mechanism for MOZART-4, CAM-chem and other chemical transport models. <i>Geoscientific Model Development</i> , 2012, 5, 1531-1542.	1.3	59
150	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12197-12218.	1.9	58
151	Effects of Different Stratospheric SO ₂ Injection Altitudes on Stratospheric Chemistry and Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4654-4673.	1.2	58
152	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, .	1.5	57
153	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
154	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
155	The effects of global changes upon regional ozone pollution in the United States. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1125-1141.	1.9	56
156	Comparing Surface and Stratospheric Impacts of Geoengineering With Different SO ₂ Injection Strategies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7900-7918.	1.2	56
157	Efficacy of Climate Forcings in PDRMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12824-12844.	1.2	55
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