J-F Lamarque

List of Publications by Year
in descending order

324 papers	61,808 citations	2101 100 h-index	1158 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. Climatic Change, 2011, 109, 5-31.	3.6	5,871
2	Global Biodiversity: Indicators of Recent Declines. Science, 2010, 328, 1164-1168.	12.6	3,642
3	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. Climatic Change, 2011, 109, 213-241.	3.6	2,948
4	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	3.6	2,084
5	Historical (1850â€“2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. Atmospheric Chemistry and Physics, 2010, 10, 7017-7039.	4.9	2,020
6	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	3.3	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. Bulletin of the American Meteorological Society, 2015, 96, 1333-1349.	3.3	1,723
8	Three decades of global methane sources and sinks. Nature Geoscience, 2013, 6, 813-823.	12.9	1,649
9	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). Geoscientific Model Development, 2010, 3, 43-67.	3.6	1,590
10	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. Atmospheric Chemistry and Physics, 2006, 6, 1777-1813.	4.9	1,202
11	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	3.8	935
12	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	848
13	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	846
14	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	9.9	824
15	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739.	3.6	807
16	The HadGEM2-ES implementation of CMIP5 centennial simulations. Geoscientific Model Development, 2011, 4, 543-570.	3.6	803
17	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877.	4.9	779
18	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. Journal of Geophysical Research, 2006, 111, .	3.3	743

#	ARTICLE	IF	CITATIONS
19	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980â€“2010 period. Climatic Change, 2011, 109, 163-190.	3.6	740
20	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). Journal of Climate, 2013, 26, 7372-7391.	3.2	706
21	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834.	4.9	697
22	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. Geoscientific Model Development, 2012, 5, 369-411.	3.6	633
23	Influence of carbonâ€nitrogen cycle coupling on land model response to CO₂ fertilization and climate variability. Global Biogeochemical Cycles, 2007, 21, .	4.9	624
24	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2063-2090.	4.9	570
25	Co-benefits of mitigating global greenhouse gas emissions for future air quality and human health. Nature Climate Change, 2013, 3, 885-889.	18.8	505
26	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663.	38.1	428
27	Aerosol indirect effects â€“ general circulation model intercomparison and evaluation with satellite data. Atmospheric Chemistry and Physics, 2009, 9, 8697-8717.	4.9	418
28	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. Biogeosciences, 2009, 6, 2099-2120.	3.3	399
29	Sensitivity of chemical tracers to meteorological parameters in the MOZARTâ€3 chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	395
30	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974.	4.9	395
31	Global and regional evolution of short-lived radiatively-active gases and aerosols in the Representative Concentration Pathways. Climatic Change, 2011, 109, 191-212.	3.6	393
32	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. Geoscientific Model Development, 2013, 6, 179-206.	3.6	388
33	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005.	5.2	381
34	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	365
36	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	3.2	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). Atmospheric Chemistry and Physics, 2013, 13, 3063-3085.	4.9	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. Environmental Science & Technology, 2006, 40, 3586-3594.	10.0	338
40	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. Journal of Geophysical Research, 2008, 113, .	3.3	335
41	Impact of anthropogenic atmospheric nitrogen and sulfur deposition on ocean acidification and the inorganic carbon system. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14580-14585.	7.1	332
42	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. Science Advances, 2020, 6, eaba1981.	10.3	321
43	Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX. Journal of Geophysical Research, 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). Atmospheric Chemistry and Physics, 2013, 13, 5277-5298.	4.9	288
45	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2013, 13, 7997-8018.	4.9	279
47	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 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. Journal of Geophysical Research, 1997, 102, 15849-15866.	3.3	264
49	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). Journal of Geophysical Research D: Atmospheres, 2019, 124, 12380-12403.	3.3	261
50	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. Atmospheric Chemistry and Physics, 2013, 13, 2563-2587.	4.9	257
51	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. Journal of Geophysical Research, 2006, 111, .	3.3	254
52	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). Geophysical Research Letters, 2019, 46, 8329-8337.	4.0	249
53	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. Atmospheric Chemistry and Physics, 2011, 11, 11267-11292.	4.9	244
54	Longâ€term ozone changes and associated climate impacts in CMIP5 simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5029-5060.	3.3	243

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55	Climate System Response to External Forcings and Climate Change Projections in CCSM4. Journal of Climate, 2012, 25, 3661-3683.	3.2	241
56	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	7.1	236
57	The effect of harmonized emissions on aerosol properties in global models â€" an AeroCom experiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501.	4.9	228
58	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2013, 13, 2423-2434.	4.9	223
59	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. Atmospheric Chemistry and Physics, 2010, 10, 9451-9472.	4.9	215
60	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. Journal of Geophysical Research, 2004, 109, .	3.3	213
61	Validation of Measurements of Pollution in the Troposphere (MOPITT) CO retrievals with aircraft in situ profiles. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	209
62	Aerosol Impacts on Climate and Biogeochemistry. Annual Review of Environment and Resources, 2011, 36, 45-74.	13.4	207
63	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	3.3	202
64	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. Geoscientific Model Development, 2017, 10, 585-607.	3.6	202
65	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2012, 12, 1423-1447.	4.9	193
67	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	3.8	189
68	Fast and slow precipitation responses to individual climate forcers: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791.	4.0	179
69	Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651.	18.8	177
70	A Preliminary Synthesis of Modeled Climate Change Impacts on U.S. Regional Ozone Concentrations. Bulletin of the American Meteorological Society, 2009, 90, 1843-1864.	3.3	175
71	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	171
72	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. Journal of Geophysical Research, 2010, 115, .	3.3	171

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73	Cross-Tropopause Mass Exchange and Potential Vorticity Budget in a Simulated Tropopause Folding. Journals of the Atmospheric Sciences, 1994, 51, 2246-2269.	1.7	166
74	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. Geophysical Research Letters, 2005, 32, .	4.0	163
75	Emissions of gases and particles from biomass burning during the 20th century using satellite data and an historical reconstruction. Atmospheric Environment, 2010, 44, 1469-1477.	4.1	162
76	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). Geoscientific Model Development, 2015, 8, 1395-1426.	3.6	159
77	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. Atmospheric Chemistry and Physics, 2012, 12, 3939-3949.	4.9	157
78	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 12465-12477.	4.9	157
79	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZARTâ€4. Journal of Geophysical Research, 2008, 113, .	3.3	154
80	Community climate simulations to assess avoided impacts in 1.5 and 2â€¯â€‰Â°C futures. Earth System Dynamics, 2017, 8, 827-847.	7.1	153
81	Review of the formulation of presentâ€generation stratospheric chemistryâ€climate models and associated external forcings. Journal of Geophysical Research, 2010, 115, .	3.3	150
82	Interactive ozone and methane chemistry in GISS-E2 historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2653-2689.	4.9	150
83	Acid rain and ozone depletion from pulsed Siberian Traps magmatism. Geology, 2014, 42, 67-70.	4.4	149
84	Longâ€term changes in lower tropospheric baseline ozone concentrations: Comparing chemistryâ€climate models and observations at northern midlatitudes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5719-5736.	3.3	149
85	Projected changes of extreme weather events in the eastern United States based on a high resolution climate modeling system. Environmental Research Letters, 2012, 7, 044025.	5.2	148
86	Iodine chemistry in the troposphere and its effect on ozone. Atmospheric Chemistry and Physics, 2014, 14, 13119-13143.	4.9	148
87	Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere. Atmospheric Chemistry and Physics, 2006, 6, 575-599.	4.9	140
88	Multimodel climate and variability of the stratosphere. Journal of Geophysical Research, 2011, 116, .	3.3	139
89	Tropospheric ozone evolution between 1890 and 1990. Journal of Geophysical Research, 2005, 110, .	3.3	134
90	A review of surface ozone in the polar regions. Atmospheric Environment, 2007, 41, 5138-5161.	4.1	133

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91	A 4-D climatology (1979â€“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. Atmospheric Measurement Techniques, 2013, 6, 1287-1314.	3.1	131
92	Ubiquity of human-induced changes in climate variability. Earth System Dynamics, 2021, 12, 1393-1411.	7.1	131
93	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. Bulletin of the American Meteorological Society, 2018, 99, 2361-2371.	3.3	129
94	Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,061.	3.3	128
95	Multi-model ensemble simulations of tropospheric NO₂ compared with GOME retrievals for the year 2000. Atmospheric Chemistry and Physics, 2006, 6, 2943-2979.	4.9	127
96	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2607-2634.	4.9	125
97	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). Geoscientific Model Development, 2016, 9, 1853-1890.	3.6	122
98	Tropospheric ozone over the tropical Atlantic: A satellite perspective. Journal of Geophysical Research, 2003, 108, .	3.3	119
99	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. Atmospheric Chemistry and Physics, 2009, 9, 6949-6981.	4.9	119
100	Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11462-11481.	3.3	118
101	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4505-4510.	7.1	118
102	PDRMIP: A Precipitation Driver and Response Model Intercomparison Projectâ€"Protocol and Preliminary Results. Bulletin of the American Meteorological Society, 2017, 98, 1185-1198.	3.3	116
103	Ozone production from the 2004 North American boreal fires. Journal of Geophysical Research, 2006, 111, .	3.3	114
104	First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,616.	3.3	114
105	Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031.	4.0	113
106	The impact of emission and climate change on ozone in the United States under representative concentration pathways (RCPs). Atmospheric Chemistry and Physics, 2013, 13, 9607-9621.	4.9	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. Atmospheric Chemistry and Physics, 2015, 15, 2805-2823.	4.9	105
108	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 0, , 130204122247009.	3.3	103

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109	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. Atmospheric Chemistry and Physics, 2012, 12, 7475-7497.	4.9	101
110	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. Atmospheric Chemistry and Physics, 2016, 16, 9847-9862.	4.9	101
111	Three-dimensional study of the relative contributions of the different nitrogen sources in the troposphere. Journal of Geophysical Research, 1996, 101, 22955-22968.	3.3	98
112	Assimilation of satellite observations of long-lived chemical species in global chemistry transport models. Journal of Geophysical Research, 2000, 105, 29135-29144.	3.3	97
113	The Climate Response to Stratospheric Aerosol Geoengineering Can Be Tailored Using Multiple Injection Locations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,574.	3.3	95
114	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. Atmospheric Chemistry and Physics, 2014, 14, 13391-13410.	4.9	90
115	The Arctic response to remote and local forcing of black carbon. Atmospheric Chemistry and Physics, 2013, 13, 211-224.	4.9	87
116	Nitrogen Availability Reduces CMIP5 Projections of Twenty-First-Century Land Carbon Uptake*. Journal of Climate, 2015, 28, 2494-2511.	3.2	87
117	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). Journal of Advances in Modeling Earth Systems, 2019, 11, 4323-4351.	3.8	87
118	Inverse modeling of carbon monoxide surface emissions using Climate Monitoring and Diagnostics Laboratory network observations. Journal of Geophysical Research, 2002, 107, ACH 10-1.	3.3	86
119	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. Nature Communications, 2018, 9, 1452.	12.8	86
120	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	4.9	85
121	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. Nature Geoscience, 2018, 11, 949-954.	12.9	85
122	Iodine oxide in the global marine boundary layer. Atmospheric Chemistry and Physics, 2015, 15, 583-593.	4.9	84
123	A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. Journal of Climate, 2018, 31, 4429-4447.	3.2	83
124	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. Atmospheric Chemistry and Physics, 2010, 10, 6195-6212.	4.9	82
125	Sensitivity of Aerosol Distribution and Climate Response to Stratospheric SO₂ Injection Locations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,591.	3.3	79
126	Sea-salt aerosol response to climate change: Last Glacial Maximum, preindustrial, and doubled carbon dioxide climates. Journal of Geophysical Research, 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 shortâ€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.	3.6	74
131	Gas hydrates: entrance to a methane age or climate threat?. Environmental Research Letters, 2009, 4, 034007.	5.2	73
132	Global carbon emissions from biomass burning in the 20th century. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	72
133	Projections of future summertime ozone over the U.S.. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5559-5582.	3.3	69
134	Stratospheric Dynamical Response and Ozone Feedbacks in the Presence of SO₂ Injections. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,557.	3.3	69
135	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. Geophysical Research Letters, 2008, 35, .	4.0	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, .	4.0	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 21stÂcentury. Atmospheric Chemistry and Physics, 2017, 17, 9223-9236.	4.9	66
141	Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	4.9	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.	3.3	64
143	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. Atmospheric Chemistry and Physics, 2015, 15, 2215-2224.	4.9	63
144	Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657.	3.2	63

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145	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. Geophysical Research Letters, 2010, 37, .	4.0	62
146	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072.	4.9	61
147	How Will Air Quality Change in South Asia by 2050?. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1840-1864.	3.3	61
148	Hemispheric asymmetries and seasonal variations of the lowermost stratospheric water vapor and ozone derived from SAGE II data. Journal of Geophysical Research, 1997, 102, 28177-28184.	3.3	60
149	Tagged ozone mechanism for MOZART-4, CAM-chem and other chemical transport models. Geoscientific Model Development, 2012, 5, 1531-1542.	3.6	59
150	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218.	4.9	58
151	Effects of Different Stratospheric SO₂ Injection Altitudes on Stratospheric Chemistry and Dynamics. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4654-4673.	3.3	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. Geophysical Research Letters, 2005, 32, .	4.0	57
153	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. Journal of Geophysical Research, 2008, 113, .	3.3	57
154	Budget of tropospheric ozone during TOPSE from two chemical transport models. Journal of Geophysical Research, 2003, 108, .	3.3	56
155	The effects of global changes upon regional ozone pollution in the United States. Atmospheric Chemistry and Physics, 2009, 9, 1125-1141.	4.9	56
156	Comparing Surface and Stratospheric Impacts of Geoengineering With Different SO₂ Injection Strategies. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7900-7918.	3.3	56
157	Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844.	3.3	55
158	Injection of iodine to the stratosphere. Geophysical Research Letters, 2015, 42, 6852-6859.	4.0	52
159	Analysis of the Summer 2004 ozone budget over the United States using Intercontinental Transport Experiment Ozonesonde Network Study (IONS) observations and Model of Ozone and Related Tracers (MOZARTâ€4) simulations. Journal of Geophysical Research, 2008, 113, .	3.3	51
160	Climate forcing and air quality change due to regional emissions reductions by economic sector. Atmospheric Chemistry and Physics, 2008, 8, 7101-7113.	4.9	51
161	Chemistryâ€climate model simulations of spring Antarctic ozone. Journal of Geophysical Research, 2010, 115, .	3.3	51
162	A new Geoengineering Model Intercomparison Project (GeoMIP) experiment designed for climate and chemistry models. Geoscientific Model Development, 2015, 8, 43-49.	3.6	51

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163	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128.	3.3	50
164	Future heat waves and surface ozone. Environmental Research Letters, 2018, 13, 064004.	5.2	50
165	Airborne measurements of organic bromine compounds in the Pacific tropical tropopause layer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13789-13793.	7.1	47
166	The importance of aerosol scenarios in projections of future heat extremes. Climatic Change, 2018, 146, 393-406.	3.6	47
167	Mapping Yearly Fine Resolution Global Surface Ozone through the Bayesian Maximum Entropy Data Fusion of Observations and Model Output for 1990â€"2017. Environmental Science & Technology, 2021, 55, 4389-4398.	10.0	47
168	A standard test case suite for two-dimensional linear transport on the sphere: results from a collection of state-of-the-art schemes. Geoscientific Model Development, 2014, 7, 105-145.	3.6	46
169	Regional and global temperature response to anthropogenic SO₂ emissions from China in three climate models. Atmospheric Chemistry and Physics, 2016, 16, 9785-9804.	4.9	46
170	Cross-tropopause mixing of ozone through gravity wave breaking: Observation and modeling. Journal of Geophysical Research, 1996, 101, 22969-22976.	3.3	45
171	Changes in Stratospheric Temperatures and Their Implications for Changes in the Brewerâ€"Dobson Circulation, 1979â€"2005. Journal of Climate, 2012, 25, 1759-1772.	3.2	45
172	Modeling bio-atmospheric coupling of the nitrogen cycle through NOx emissions and NOy deposition. Nutrient Cycling in Agroecosystems, 1997, 48, 7-24.	2.2	44
173	Sensible heat has significantly affected the global hydrological cycle over the historical period. Nature Communications, 2018, 9, 1922.	12.8	44
174	Ozone source attribution and its modulation by the Arctic oscillation during the spring months. Journal of Geophysical Research, 2007, 112, .	3.3	43
175	Early Eocene Arctic climate sensitivity to pCO₂ and basin geography. Geophysical Research Letters, 2009, 36, .	4.0	42
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