

J-F Lamarque

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389
papers

47,493
citations

95
h-index

214
g-index

487
ext. papers

54,907
ext. citations

6.8
avg, IF

6.83
L-index

#	Paper	IF	Citations
389	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011 , 109, 5-31	4.5	454 ⁰
388	Global biodiversity: indicators of recent declines. <i>Science</i> , 2010 , 328, 1164-8	33.3	2937
387	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011 , 109, 213-241	4.5	2343
386	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	6.8	1724
385	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1339-1360	6.1	1412
384	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	6.1	1320
383	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013 , 6, 813-823	18.3	1293
382	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
381	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1777-1813	6.8	991
380	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3461-3482	6.3	814
379	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
378	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	731
377	The HadGEM2-ES implementation of CMIP5 centennial simulations. <i>Geoscientific Model Development</i> , 2011 , 4, 543-570	6.3	662
376	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	6.3	648
375	The global methane budget 2000-2012. <i>Earth System Science Data</i> , 2016 , 8, 697-751	10.5	641
374	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006 , 111,		625
373	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980-2010 period. <i>Climatic Change</i> , 2011 , 109, 163-190	4.5	623

372	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1853-1877	6.8	598
371	An AeroCom initial assessment of optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1815-1834	6.8	575
370	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). <i>Journal of Climate</i> , 2013 , 26, 7372-7394	4.4	561
369	Influence of carbon-nitrogen cycle coupling on land model response to CO2 fertilization and climate variability. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	556
368	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
367	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	6.8	420
366	Co-benefits of Global Greenhouse Gas Mitigation for Future Air Quality and Human Health. <i>Nature Climate Change</i> , 2013 , 3, 885-889	21.4	374
365	Carbon-nitrogen interactions regulate climate-carbon cycle feedbacks: results from an atmosphere-ocean general circulation model. <i>Biogeosciences</i> , 2009 , 6, 2099-2120	4.6	366
364	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001916	7.1	358
363	Aerosol indirect effects in general circulation model intercomparison and evaluation with satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8697-8717	6.8	356
362	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007 , 112,		338
361	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012 , 41, 6663-83	58.5	334
360	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	4.5	334
359	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2939-2974	6.8	324
358	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003 , 108,		317
357	NITROGEN DEPOSITION ONTO THE UNITED STATES AND WESTERN EUROPE: SYNTHESIS OF OBSERVATIONS AND MODELS 2005 , 15, 38-57		309
356	Interactive chemistry in the Laboratoire de Météorologie Dynamique general circulation model: Description and background tropospheric chemistry evaluation. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		305
355	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	6.3	304

354	The global atmospheric environment for the next generation. <i>Environmental Science & Technology</i> , 2006 , 40, 3586-94	10.3	298
353	Global distribution and trends of tropospheric ozone: An observation-based review. <i>Elementa</i> , 2014 , 2,	3.6	292
352	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, n/a-n/a		291
351	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, 14580-5	11.5	280
350	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013 , 8, 034005	6.2	279
349	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	6.8	273
348	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		248
347	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , 2010 , 115,		239
346	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	6.8	234
345	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		227
344	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11267-11292	6.8	221
343	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005 , 110,		221
342	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006 , 111,		220
341	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	6.8	213
340	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2563-2587	6.8	209
339	The effect of harmonized emissions on aerosol properties in global models in an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4489-4501	6.8	205
338	Climate System Response to External Forcings and Climate Change Projections in CCSM4. <i>Journal of Climate</i> , 2012 , 25, 3661-3683	4.4	202
337	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	200

336	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
335	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2423-2434	6.8	183
334	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	6.8	179
333	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004 , 109,		177
332	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
331	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,036-11,058	4.4	161
330	Aerosol Impacts on Climate and Biogeochemistry. <i>Annual Review of Environment and Resources</i> , 2011 , 36, 45-74	17.2	157
329	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	6.1	153
328	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010 , 115,		150
327	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	6.8	150
326	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
325	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	145
324	Cross-Tropopause Mass Exchange and Potential Vorticity Budget in a Simulated Tropopause Folding. <i>Journals of the Atmospheric Sciences</i> , 1994 , 51, 2246-2269	2.1	144
323	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. <i>Science Advances</i> , 2020 , 6, eaba1981	14.3	142
322	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	5.3	142
321	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019 , 46, 8329-8337	4.9	141
320	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3939-3949	6.8	138
319	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	6.8	135

318	Review of the formulation of present-generation stratospheric chemistry-climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		134
317	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
316	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12380-12403	4.4	126
315	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	6.8	126
314	Community climate simulations to assess avoided impacts in 1.5 and 2 °C futures. <i>Earth System Dynamics</i> , 2017 , 8, 827-847	4.8	125
313	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	4.4	124
312	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		122
311	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. <i>Geoscientific Model Development</i> , 2017 , 10, 585-607	6.3	119
310	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
309	Interactive ozone and methane chemistry in GISS-E2 historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2653-2689	6.8	119
308	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	6.8	118
307	Fast and slow precipitation responses to individual climate forcings: A PDRMIP multimodel study. <i>Geophysical Research Letters</i> , 2016 , 43, 2782-2791	4.9	118
306	Iodine chemistry in the troposphere and its effect on ozone. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13119-13143	6.8	117
305	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	6.2	117
304	Tropospheric ozone evolution between 1890 and 1990. <i>Journal of Geophysical Research</i> , 2005 , 110,		117
303	FUTURE GLOBAL MORTALITY FROM CHANGES IN AIR POLLUTION ATTRIBUTABLE TO CLIMATE CHANGE. <i>Nature Climate Change</i> , 2017 , 7, 647-651	21.4	114
302	Acid rain and ozone depletion from pulsed Siberian Traps magmatism. <i>Geology</i> , 2014 , 42, 67-70	5	113
301	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	6.8	111

300	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	4	109
299	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6949-6981	6.8	109
298	A review of surface ozone in the polar regions. <i>Atmospheric Environment</i> , 2007 , 41, 5138-5161	5.3	109
297	Rapid adjustments cause weak surface temperature response to increased black carbon concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , Volume 122, 11462-11481	4.4	100
296	Ozone production from the 2004 North American boreal fires. <i>Journal of Geophysical Research</i> , 2006 , 111,		98
295	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003 , 108,		98
294	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
293	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 130204122247009	6.1	89
292	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		88
291	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	6.8	87
290	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	4.4	86
289	Assimilation of satellite observations of long-lived chemical species in global chemistry transport models. <i>Journal of Geophysical Research</i> , 2000 , 105, 29135-29144		86
288	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	6.1	84
287	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
286	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
285	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		77
284	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	4.4	75
283	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

282	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 2361-2371	6.1	74
281	The Arctic response to remote and local forcing of black carbon. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 211-224	6.8	73
280	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018 , 45, 12023-12031	4.9	73
279	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
278	Variability and quasi-decadal changes in the methane budget over the period 2000-2012. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11135-11161	6.8	69
277	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13391-13410	6.8	68
276	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	6.8	65
275	Nitrogen Availability Reduces CMIP5 Projections of Twenty-First-Century Land Carbon Uptake*. <i>Journal of Climate</i> , 2015 , 28, 2494-2511	4.4	65
274	Multimodel projections of climate change from short-lived emissions due to human activities. <i>Journal of Geophysical Research</i> , 2008 , 113,		65
273	Sea-salt aerosol response to climate change: Last Glacial Maximum, preindustrial, and doubled carbon dioxide climates. <i>Journal of Geophysical Research</i> , 2006 , 111,		65
272	Using transport diagnostics to understand chemistry climate model ozone simulations. <i>Journal of Geophysical Research</i> , 2011 , 116,		64
271	Decline and recovery of total column ozone using a multimodel time series analysis. <i>Journal of Geophysical Research</i> , 2010 , 115,		64
270	Evaluation of CO simulations and the analysis of the CO budget for Europe. <i>Journal of Geophysical Research</i> , 2004 , 109,		63
269	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	4.4	62
268	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 583-593	6.8	62
267	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	11.5	61
266	Gas hydrates: entrance to a methane age or climate threat?. <i>Environmental Research Letters</i> , 2009 , 4, 034007	6.2	60
265	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	60

264	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60
263	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. <i>Nature Communications</i> , 2018 , 9, 1452	17.4	58
262	Projections of future summertime ozone over the U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5559-5582	4.4	58
261	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	4.4	57
260	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		57
259	Global carbon emissions from biomass burning in the 20th century. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	57
258	The role of circulation features on black carbon transport into the Arctic in the Community Atmosphere Model version 5 (CAM5). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4657-4669	4.4	56
257	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
256	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
255	Ozone pollution from future ship traffic in the Arctic northern passages. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	56
254	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. <i>Journal of Geophysical Research</i> , 2008 , 113,		55
253	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. <i>Nature Geoscience</i> , 2018 , 11, 949-954	18.3	55
252	PORT, a CESM tool for the diagnosis of radiative forcing. <i>Geoscientific Model Development</i> , 2013 , 6, 469-476	4.9	54
251	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
250	A PDRMIP multi-model study on the impacts of regional aerosol forcings on global and regional precipitation. <i>Journal of Climate</i> , 2018 , 31, 4429-4447	4.4	49
249	Stratospheric Dynamical Response and Ozone Feedbacks in the Presence of SO ₂ Injections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 12,557	4.4	49
248	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
247	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	48

246	The effects of global changes upon regional ozone pollution in the United States. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1125-1141	6.8	48
245	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
244	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2215-2224	6.8	47
243	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4057-4072	6.8	46
242	Climate forcing and air quality change due to regional emissions reductions by economic sector. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7101-7113	6.8	45
241	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
240	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
239	Chemistry-climate model simulations of spring Antarctic ozone. <i>Journal of Geophysical Research</i> , 2010 , 115,		43
238	Airborne measurements of organic bromine compounds in the Pacific tropical tropopause layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13789-93	11.5	41
237	Injection of iodine to the stratosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 6852-6859	4.9	41
236	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 106-128	6.1	40
235	How Will Air Quality Change in South Asia by 2050?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1840-1864	4.4	40
234	Regional and global temperature response to anthropogenic SO ₂ emissions from China in three climate models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9785-9804	6.8	40
233	Changes in Stratospheric Temperatures and Their Implications for Changes in the Brewer-Dobson Circulation, 1979-2005. <i>Journal of Climate</i> , 2012 , 25, 1759-1772	4.4	40
232	Global ozone and air quality: a multi-model assessment of risks to human health and crops		40
231	Early Eocene Arctic climate sensitivity to pCO ₂ and basin geography. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	39
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