J-F Lamarque

List of Publications by Year
in descending order

324 papers	61,808 citations	2093 100 h-index	1152 229 g-index
487 all docs	487 docs citations	487 times ranked	42336 citing authors

#	Article	IF	Citations
1	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. Bulletin of the American Meteorological Society, 2022, 103, E761-E790.	1.7	39
2	A revised lower estimate of ozone columns during Earthâ€™s oxygenated history. Royal Society Open Science, 2022, 9, 211165.	1.1	13
3	Spurious Late Historicalâ€Era Warming in CESM2 Driven by Prescribed Biomass Burning Emissions. Geophysical Research Letters, 2022, 49, .	1.5	29
4	The influence of iodine on the Antarctic stratospheric ozone hole. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	15
5	Sulfur emissions from consumption by developed and developing countries produce comparable climate impacts. Nature Geoscience, 2022, 15, 184-189.	5.4	3
6	Scientific data from precipitation driver response model intercomparison project. Scientific Data, 2022, 9, 123.	2.4	5
7	Characterizing Changes in Eastern U.S. Pollution Events in a Warming World. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	8
8	Reactive halogens increase the global methane lifetime and radiative forcing in the 21st century. Nature Communications, 2022, 13, 2768.	5.8	20
9	Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	1.9	65
10	Intercomparison Between Surrogate, Explicit, and Full Treatments of VSL Bromine Chemistry Within the CAMâ€Chem Chemistryâ€Climate Model. Geophysical Research Letters, 2021, 48, e2020GL091125.	1.5	11
11	Model physics and chemistry causing intermodel disagreement within the VolMIP-Tambora Interactive Stratospheric Aerosol ensemble. Atmospheric Chemistry and Physics, 2021, 21, 3317-3343.	1.9	33
12	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.	4.6	47
13	Sensitivity of modeled Indian monsoon to Chinese and Indian aerosol emissions. Atmospheric Chemistry and Physics, 2021, 21, 3593-3605.	1.9	13
14	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236
15	Exploration of the Global Burden of Dementia Attributable to PM2.5: What Do We Know Based on Current Evidence?. GeoHealth, 2021, 5, e2020GH000356.	1.9	12
16	Tropical Stratospheric Circulation and Ozone Coupled to Pacific Multiâ€Decadal Variability. Geophysical Research Letters, 2021, 48, e2020GL092162.	1.5	5
17	Global climate disruption and regional climate shelters after the Toba supereruption. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
18	Effects of Climate and Atmospheric Nitrogen Deposition on Early to Mid-Term Stage Litter Decomposition Across Biomes. Frontiers in Forests and Global Change, 2021, 4, .	1.0	20

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19	Coupled Climate Responses to Recent Australian Wildfire and COVIDâ€19 Emissions Anomalies Estimated in CESM2. Geophysical Research Letters, 2021, 48, e2021GL093841.	1.5	19
20	Distinct surface response to black carbon aerosols. Atmospheric Chemistry and Physics, 2021, 21, 13797-13809.	1.9	2
21	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. Atmospheric Chemistry and Physics, 2021, 21, 13729-13746.	1.9	4
22	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126.	1.9	39
23	Antarctic ozone hole modifies iodine geochemistry on the Antarctic Plateau. Nature Communications, 2021, 12, 5836.	5.8	6
24	The Role of Natural Halogens in Global Tropospheric Ozone Chemistry and Budget Under Different 21st Century Climate Scenarios. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034859.	1.2	10
25	Impacts of emission changes in China from 2010 to 2017 on domestic and intercontinental air quality and health effect. Atmospheric Chemistry and Physics, 2021, 21, 16051-16065.	1.9	9
26	Ubiquity of human-induced changes in climate variability. Earth System Dynamics, 2021, 12, 1393-1411.	2.7	131
27	Global Atmospheric Budget of Acetone: Airâ€Sea Exchange and the Contribution to Hydroxyl Radicals. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032553.	1.2	17
28	Large influence of dust on the Precambrian climate. Nature Communications, 2020, 11, 4427.	5.8	10
29	The effect of rapid adjustments to halocarbons and N2O on radiative forcing. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	7
30	Global sensitivity analysis of chemistryâ€“climate model budgets of tropospheric ozone and OH: exploring model diversity. Atmospheric Chemistry and Physics, 2020, 20, 4047-4058.	1.9	38
31	Assessing California Wintertime Precipitation Responses to Various Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031736.	1.2	4
32	Attribution of Chemistry-Climate Model Initiative (CCMI) ozone radiative flux bias from satellites. Atmospheric Chemistry and Physics, 2020, 20, 281-301.	1.9	6
33	The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916.	1.3	935
34	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. Science Advances, 2020, 6, eaba1981.	4.7	321
35	Natural halogens buffer tropospheric ozone in a changing climate. Nature Climate Change, 2020, 10, 147-154.	8.1	37
36	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001882.	1.3	189

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37	Local and remote mean and extreme temperature response to regional aerosol emissions reductions. Atmospheric Chemistry and Physics, 2020, 20, 3009-3027.	1.9	25
38	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.	3.3	118
39	Distinct responses of Asian summer monsoon to black carbon aerosols and greenhouse gases. Atmospheric Chemistry and Physics, 2020, 20, 11823-11839.	1.9	15
40	How aerosols and greenhouse gases influence the diurnal temperature range. Atmospheric Chemistry and Physics, 2020, 20, 13467-13480.	1.9	23
41	Seasonal impact of biogenic very short-lived bromocarbons on lowermost stratospheric ozone between 60Â°â€‰N and 60Â°â€‰S during the 21stÂcentury. Atmospheric Chemistry and Physics, 2020, 20, 8083-8102.	1.9	11
42	Response of surface shortwave cloud radiative effect to greenhouse gases and aerosols and its impact on summer maximum temperature. Atmospheric Chemistry and Physics, 2020, 20, 8251-8266.	1.9	7
43	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	1.9	30
44	Projecting ozone hole recovery using an ensemble of chemistryâ€“climate models weighted by model performance and independence. Atmospheric Chemistry and Physics, 2020, 20, 9961-9977.	1.9	16
45	The Southern Hemisphere Midlatitude Circulation Response to Rapid Adjustments and Sea Surface Temperature Driven Feedbacks. Journal of Climate, 2020, 33, 9673-9690.	1.2	3
46	Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	21
47	High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). Geophysical Research Letters, 2019, 46, 8329-8337.	1.5	249
48	Ocean Biogeochemistry Control on the Marine Emissions of Brominated Very Shortâ€Lived Ozoneâ€Depleting Substances: A Machineâ€Learning Approach. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12319-12339.	1.2	17
49	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAMâ€Chem Global Chemistryâ€Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2259-2289.	1.3	31
50	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). Journal of Geophysical Research D: Atmospheres, 2019, 124, 12380-12403.	1.2	261
51	Observationally constrained aerosolâ€“cloud semi-direct effects. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	35
52	Evaluating Simulations of Interhemispheric Transport: Interhemispheric Exchange Time Versus SF₆ Age. Geophysical Research Letters, 2019, 46, 1113-1120.	1.5	12
53	Comparing Surface and Stratospheric Impacts of Geoengineering With Different SO₂ Injection Strategies. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7900-7918.	1.2	56
54	Large-scale transport into the Arctic: the roles of the midlatitude jet and the Hadley Cell. Atmospheric Chemistry and Physics, 2019, 19, 5511-5528.	1.9	8

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55	Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717.	1.2	39
56	Atmospheric Acetaldehyde: Importance of Airâ€Sea Exchange and a Missing Source in the Remote Troposphere. Geophysical Research Letters, 2019, 46, 5601-5613.	1.5	41
57	Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 887-900.	1.9	14
58	Anthropogenic nitrogen inputs and impacts on oceanic N2O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 166, 104-113.	0.6	9
59	Comparison of Effective Radiative Forcing Calculations Using Multiple Methods, Drivers, and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4382-4394.	1.2	21
60	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.	1.3	87
61	Novel approaches to improve estimates of short-lived halocarbon emissions during summer from the Southern Ocean using airborne observations. Atmospheric Chemistry and Physics, 2019, 19, 14071-14090.	1.9	5
62	Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844.	1.2	55
63	Water vapour adjustments and responses differ between climate drivers. Atmospheric Chemistry and Physics, 2019, 19, 12887-12899.	1.9	29
64	Holistic Assessment of SO 2 Injections Using CESM1(WACCM): Introduction to the Special Issue. Journal of Geophysical Research D: Atmospheres, 2019, 124, 444-450.	1.2	2
65	The importance of aerosol scenarios in projections of future heat extremes. Climatic Change, 2018, 146, 393-406.	1.7	47
66	Isolating the Meteorological Impact of 21st Century GHG Warming on the Removal and Atmospheric Loading of Anthropogenic Fine Particulate Matter Pollution at Global Scale. Earth's Future, 2018, 6, 428-440.	2.4	28
67	A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. Journal of Climate, 2018, 31, 4429-4447.	1.2	83
68	Multimodel Surface Temperature Responses to Removal of U.S. Sulfur Dioxide Emissions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2773-2796.	1.2	15
69	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. Nature Communications, 2018, 9, 1452.	5.8	86
70	Future heat waves and surface ozone. Environmental Research Letters, 2018, 13, 064004.	2.2	50
71	How Will Air Quality Change in South Asia by 2050?. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1840-1864.	1.2	61
72	Multi-model comparison of the volcanic sulfate deposition from the 1815 eruption of Mt.ÂTambora. Atmospheric Chemistry and Physics, 2018, 18, 2307-2328.	1.9	41

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73	Carbon Dioxide Physiological Forcing Dominates Projected Eastern Amazonian Drying. Geophysical Research Letters, 2018, 45, 2815-2825.	1.5	35
74	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. Npj Climate and Atmospheric Science, 2018, 1, .	2.6	33
75	The Benefits of Reduced Anthropogenic Climate changE (BRACE): a synthesis. Climatic Change, 2018, 146, 287-301.	1.7	27
76	Cloud impacts on photochemistry: building a climatology of photolysis rates from the Atmospheric Tomography mission. Atmospheric Chemistry and Physics, 2018, 18, 16809-16828.	1.9	34
77	Evaluating simplified chemical mechanisms within present-day simulations of the Community Earth System Model version 1.2 with CAM4 (CESM1.2 CAM-chem): MOZART-4 vs. Reduced Hydrocarbon vs. Super-Fast chemistry. Geoscientific Model Development, 2018, 11, 4155-4174.	1.3	9
78	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. Atmospheric Chemistry and Physics, 2018, 18, 8439-8452.	1.9	40
79	CESM1(WACCM) Stratospheric Aerosol Geoengineering Large Ensemble Project. Bulletin of the American Meteorological Society, 2018, 99, 2361-2371.	1.7	129
80	Large-scale tropospheric transport in the Chemistryâ€“Climate Model Initiative (CCMI) simulations. Atmospheric Chemistry and Physics, 2018, 18, 7217-7235.	1.9	32
81	Simulated Global Climate Response to Tropospheric Ozoneâ€Induced Changes in Plant Transpiration. Geophysical Research Letters, 2018, 45, 13070-13079.	1.5	20
82	Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. Nature Geoscience, 2018, 11, 949-954.	5.4	85
83	Effects of Different Stratospheric SO₂ Injection Altitudes on Stratospheric Chemistry and Dynamics. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4654-4673.	1.2	58
84	Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657.	1.2	63
85	Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031.	1.5	113
86	Stratospheric Response in the First Geoengineering Simulation Meeting Multiple Surface Climate Objectives. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5762-5782.	1.2	17
87	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. Geophysical Research Letters, 2018, 45, 11399-11405.	1.5	26
88	Connecting regional aerosol emissions reductions to local and remote precipitation responses. Atmospheric Chemistry and Physics, 2018, 18, 12461-12475.	1.9	38
89	How well can global chemistry models calculate the reactivity of short-lived greenhouse gases in the remote troposphere, knowing the chemical composition. Atmospheric Measurement Techniques, 2018, 11, 2653-2668.	1.2	15
90	Sensible heat has significantly affected the global hydrological cycle over the historical period. Nature Communications, 2018, 9, 1922.	5.8	44

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91	Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	1.2	36
92	Spatial and temporal variability of interhemispheric transport times. Atmospheric Chemistry and Physics, 2018, 18, 7439-7452.	1.9	18
93	Changes in a suite of indicators of extreme temperature and precipitation under 1.5 and 2 degrees warming. Environmental Research Letters, 2018, 13, 035009.	2.2	26
94	Coordination to Understand and Reduce Global Model Biases by U.S. and Chinese Institutions. Bulletin of the American Meteorological Society, 2018, 99, ES109-ES113.	1.7	4
95	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128.	1.7	50
96	Quantifying the causes of differences in tropospheric OH within global models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1983-2007.	1.2	27
97	Multimodel precipitation responses to removal of U.S. sulfur dioxide emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5024-5038.	1.2	32
98	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. Lancet, The, 2017, 389, S23.	6.3	13
99	Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11462-11481.	1.2	118
100	Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651.	8.1	177
101	The Climate Response to Stratospheric Aerosol Geoengineering Can Be Tailored Using Multiple Injection Locations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,574.	1.2	95
102	First Simulations of Designing Stratospheric Sulfate Aerosol Geoengineering to Meet Multiple Simultaneous Climate Objectives. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,616.	1.2	114
103	Sensitivity of Aerosol Distribution and Climate Response to Stratospheric SO₂ Injection Locations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,591.	1.2	79
104	Stratospheric Dynamical Response and Ozone Feedbacks in the Presence of SO₂ Injections. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,557.	1.2	69
105	Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,061.	1.2	128
106	PDRMIP: A Precipitation Driver and Response Model Intercomparison Projectâ€"Protocol and Preliminary Results. Bulletin of the American Meteorological Society, 2017, 98, 1185-1198.	1.7	116
107	Improvement of the prediction of surface ozone concentration over conterminous U.S. by a computationally efficient secondâ€order R osenbrock solver in CAM 4â€•C hem. Journal of Advances in Modeling Earth Systems, 2017, 9, 482-500.	1.3	4
108	Global atmospheric chemistry â€" which air matters. Atmospheric Chemistry and Physics, 2017, 17, 9081-9102.	1.9	32

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109	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218.	1.9	58
110	Modeling the inorganic bromine partitioning in the tropical tropopause layer over the eastern and western Pacific Ocean. Atmospheric Chemistry and Physics, 2017, 17, 9917-9930.	1.9	7
111	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	1.9	85
112	BrO and inferred Br_{<i>y</i>} profiles over the western Pacific: relevance of inorganic bromine sources and a Br_{<i>y</i>} minimum in the aged tropical tropopause layer. Atmospheric Chemistry and Physics, 2017, 17, 15245-15270.	1.9	33
113	Impact of biogenic very short-lived bromine on the Antarctic ozone hole during the 21st century. Atmospheric Chemistry and Physics, 2017, 17, 1673-1688.	1.9	41
114	Observation- and model-based estimates of particulate dry nitrogen deposition to the oceans. Atmospheric Chemistry and Physics, 2017, 17, 8189-8210.	1.9	26
115	Wildfire air pollution hazard during the 21stÂcentury. Atmospheric Chemistry and Physics, 2017, 17, 9223-9236.	1.9	66
116	Tropospheric transport differences between models using the same largeâ€scale meteorological fields. Geophysical Research Letters, 2017, 44, 1068-1078.	1.5	34
117	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. Geoscientific Model Development, 2017, 10, 585-607.	1.3	202
118	Community climate simulations to assess avoided impacts in 1.5 and 2â€¯â€‰Â°C futures. Earth System Dynamics, 2017, 8, 827-847.	2.7	153
119	Variability of fire emissions on interannual to multi-decadal timescales in two Earth System models. Environmental Research Letters, 2016, 11, 125008.	2.2	7
120	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	1.3	2,084
121	A consistent prescription of stratospheric aerosol for both radiation and chemistry in the Community Earth System Model (CESM1). Geoscientific Model Development, 2016, 9, 2459-2470.	1.3	13
122	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). Geoscientific Model Development, 2016, 9, 1853-1890.	1.3	122
123	Seasonal cycles of O 3 in the marine boundary layer: Observation and model simulation comparisons. Journal of Geophysical Research D: Atmospheres, 2016, 121, 538-557.	1.2	29
124	Fast and slow precipitation responses to individual climate forcers: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791.	1.5	179
125	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7461-7488.	1.2	18
126	Evaluation of the inter-annual variability of stratospheric chemical composition in chemistry-climate models using ground-based multi species time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 61-84.	0.6	6

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127	Stratospheric ozone chemistry feedbacks are not critical for the determination of climate sensitivity in CESM1(WACCM). Geophysical Research Letters, 2016, 43, 3928-3934.	1.5	33
128	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.	1.9	101
129	Regional and global temperature response to anthropogenic SO₂ emissions from China in three climate models. Atmospheric Chemistry and Physics, 2016, 16, 9785-9804.	1.9	46
130	Nighttime atmospheric chemistry of iodine. Atmospheric Chemistry and Physics, 2016, 16, 15593-15604.	1.9	31
131	Interpreting space-based trends in carbon monoxide with multiple models. Atmospheric Chemistry and Physics, 2016, 16, 7285-7294.	1.9	31
132	A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267.	5.8	33
133	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	3.7	824
134	Injection of iodine to the stratosphere. Geophysical Research Letters, 2015, 42, 6852-6859.	1.5	52
135	Sensitivity of regional climate to global temperature and forcing. Environmental Research Letters, 2015, 10, 074001.	2.2	14
136	Bimodal distribution of free tropospheric ozone over the tropical western Pacific revealed by airborne observations. Geophysical Research Letters, 2015, 42, 7844-7851.	1.5	18
137	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. Atmospheric Chemistry and Physics, 2015, 15, 2215-2224.	1.9	63
138	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.	1.9	105
139	Iodine oxide in the global marine boundary layer. Atmospheric Chemistry and Physics, 2015, 15, 583-593.	1.9	84
140	Limited effect of anthropogenic nitrogen oxides on secondary organic aerosol formation. Atmospheric Chemistry and Physics, 2015, 15, 13487-13506.	1.9	17
141	NO₂ seasonal evolution in the north subtropical free troposphere. Atmospheric Chemistry and Physics, 2015, 15, 10567-10579.	1.9	9
142	Reducing the negative human-health impacts of bioenergy crop emissions through region-specific crop selection. Environmental Research Letters, 2015, 10, 054004.	2.2	3
143	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). Geoscientific Model Development, 2015, 8, 1395-1426.	1.3	159
144	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. Geoscientific Model Development, 2015, 8, 3999-4025.	1.3	11

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145	A new Geoengineering Model Intercomparison Project (GeoMIP) experiment designed for climate and chemistry models. Geoscientific Model Development, 2015, 8, 43-49.	1.3	51
146	Nitrogen Availability Reduces CMIP5 Projections of Twenty-First-Century Land Carbon Uptake*. Journal of Climate, 2015, 28, 2494-2511.	1.2	87
147	The terminator "toy" chemistry test: a simple tool to assess errors in transport schemes. Geoscientific Model Development, 2015, 8, 1299-1313.	1.3	16
148	How well do integrated assessment models represent non-CO2 radiative forcing?. Climatic Change, 2015, 133, 565-582.	1.7	17
149	Impact of aerosol radiative effects on 2000â€“2010 surface temperatures. Climate Dynamics, 2015, 45, 2165-2179.	1.7	24
150	The Role of Clouds in Modulating Global Aerosol Direct Radiative Effects in Spaceborne Active Observations and the Community Earth System Model. Journal of Climate, 2015, 28, 2986-3003.	1.2	30
151	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.	1.7	1,723
152	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.	3.3	47
153	Developing Climate Model Comparisons. Eos, 2014, 95, 462-462.	0.1	3
154	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.	1.3	46
155	Can regional climate engineering save the summer Arctic sea ice?. Geophysical Research Letters, 2014, 41, 880-885.	1.5	32
156	Acid rain and ozone depletion from pulsed Siberian Traps magmatism. Geology, 2014, 42, 67-70.	2.0	149
157	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.	1.2	149
158	The role of midlatitude mixing barriers in creating the annual variation of total ozone in high northern latitudes. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9578-9595.	1.2	5
159	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. Atmospheric Chemistry and Physics, 2014, 14, 13391-13410.	1.9	90
160	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 12465-12477.	1.9	157
161	Iodine chemistry in the troposphere and its effect on ozone. Atmospheric Chemistry and Physics, 2014, 14, 13119-13143.	1.9	148
162	Aviation 2006 NO_x-induced effects on atmospheric ozone and HO_x in Community Earth System Model (CESM). Atmospheric Chemistry and Physics, 2014, 14, 9925-9939.	1.9	8

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163	Projections of future summertime ozone over the U.S.. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5559-5582.	1.2	69
164	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	1.1	365
165	New Directions: GEIA's 2020 vision for better air emissions information. Atmospheric Environment, 2013, 81, 710-712.	1.9	25
166	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	1.7	1,848
167	Three decades of global methane sources and sinks. Nature Geoscience, 2013, 6, 813-823.	5.4	1,649
168	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005.	2.2	381
169	Attribution of historical ozone forcing to anthropogenic emissions. Nature Climate Change, 2013, 3, 567-570.	8.1	42
170	Co-benefits of mitigating global greenhouse gas emissions for future air quality and human health. Nature Climate Change, 2013, 3, 885-889.	8.1	505
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