

Larry Horowitz

List of Publications by Year in descending order

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213
papers

29,483
citations

4942

84
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6282

158
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docs citations

263
times ranked

18964
citing authors

#	ARTICLE	IF	CITATIONS
1	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006, 19, 643-674.	1.2	1,431
2	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. <i>Journal of Climate</i> , 2011, 24, 3484-3519.	1.2	887
3	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
4	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
5	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7781-7816.	1.9	839
6	The New GFDL Global Atmosphere and Land Model AM2-2.5: Evaluation with Prescribed SST Simulations. <i>Journal of Climate</i> , 2004, 17, 4641-4673.	1.2	756
7	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	743
8	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. <i>Journal of Geophysical Research</i> , 2000, 105, 8931-8980.	3.3	730
9	An AeroCom initial assessment of optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1815-1834.	1.9	697
10	An Estimate of the Global Burden of Anthropogenic Ozone and Fine Particulate Matter on Premature Human Mortality Using Atmospheric Modeling. <i>Environmental Health Perspectives</i> , 2010, 118, 1189-1195.	2.8	604
11	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9001-9026.	1.9	585
12	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
13	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
14	Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage. <i>Atmospheric Environment</i> , 2011, 45, 2284-2296.	1.9	472
15	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	430
16	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012, 41, 6663.	18.7	428
17	A multi-model assessment of pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5353-5372.	1.9	419
18	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2939-2974.	1.9	395

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19	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
20	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
21	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
22	The Global Atmospheric Environment for the Next Generation. <i>Environmental Science & Technology</i> , 2006, 40, 3586-3594.	4.6	338
23	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
24	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA's Train satellite observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	316
25	Global crop yield reductions due to surface ozone exposure: 2. Year 2030 potential crop production losses and economic damage under two scenarios of O ₃ pollution. <i>Atmospheric Environment</i> , 2011, 45, 2297-2309.	1.9	292
26	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. <i>Journal of Climate</i> , 2011, 24, 3520-3544.	1.2	288
27	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
28	Review of the global models used within phase 1 of the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2017, 10, 639-671.	1.3	277
29	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	1.3	277
30	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
31	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
32	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	254
33	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
34	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	1.3	242
35	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
36	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	219

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37	Transport of Asian ozone pollution into surface air over the western United States in spring. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	218
38	US surface ozone trends and extremes from 1980 to 2014: quantifying the roles of rising Asian emissions, domestic controls, wildfires, and climate. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2943-2970.	1.9	218
39	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,256.	1.2	213
40	Global health benefits of mitigating ozone pollution with methane emission controls. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3988-3993.	3.3	210
41	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	200
42	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	192
43	Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. <i>Nature Communications</i> , 2015, 6, 7105.	5.8	186
44	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	1.3	185
45	Future global mortality from changes in air pollution attributable to climate change. <i>Nature Climate Change</i> , 2017, 7, 647-651.	8.1	177
46	Export of reactive nitrogen from North America during summertime: Sensitivity to hydrocarbon chemistry. <i>Journal of Geophysical Research</i> , 1998, 103, 13451-13476.	3.3	171
47	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	170
48	A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	169
49	The roles of aerosol direct and indirect effects in past and future climate change. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4521-4532.	1.2	169
50	Effects of aerosols on tropospheric oxidants: A global model study. <i>Journal of Geophysical Research</i> , 2001, 106, 22931-22964.	3.3	165
51	Evaluating the contribution of changes in isoprene emissions to surface ozone trends over the eastern United States. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	163
52	Seasonal budgets of reactive nitrogen species and ozone over the United States, and export fluxes to the global atmosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 13435-13450.	3.3	159
53	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	1.3	155
54	Radiative forcing in the 21st century due to ozone changes in the troposphere and the lower stratosphere. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	153

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55	Surface ozone-temperature relationships in the eastern US: A monthly climatology for evaluating chemistry-climate models. <i>Atmospheric Environment</i> , 2012, 47, 142-153.	1.9	152
56	Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. <i>Nature Geoscience</i> , 2014, 7, 136-143.	5.4	151
57	Seasonal transition from NO _x - to hydrocarbon-limited conditions for ozone production over the eastern United States in September. <i>Journal of Geophysical Research</i> , 1995, 100, 9315.	3.3	150
58	Formaldehyde, glyoxal, and methylglyoxal in air and cloudwater at a rural mountain site in central Virginia. <i>Journal of Geophysical Research</i> , 1995, 100, 9325.	3.3	150
59	An observationally based evaluation of cloud ice water in CMIP3 and CMIP5 GCMs and contemporary reanalyses using contemporary satellite data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	150
60	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
61	Air pollution and associated human mortality: the role of air pollutant emissions, climate change and methane concentration increases from the preindustrial period to present. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1377-1394.	1.9	148
62	Past, present, and future concentrations of tropospheric ozone and aerosols: Methodology, ozone evaluation, and sensitivity to aerosol wet removal. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	145
63	Evaluation of factors controlling long-range transport of black carbon to the Arctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	144
64	Halving warming with idealized solar geoengineering moderates key climate hazards. <i>Nature Climate Change</i> , 2019, 9, 295-299.	8.1	139
65	Aerosol direct radiative effects over the northwest Atlantic, northwest Pacific, and North Indian Oceans: estimates based on in-situ chemical and optical measurements and chemical transport modeling. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1657-1732.	1.9	135
66	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
67	Characterizing the tropospheric ozone response to methane emission controls and the benefits to climate and air quality. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	128
68	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	1.9	128
69	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
70	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
71	Formaldehyde production from isoprene oxidation across NO _x regimes. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2597-2610.	1.9	124
72	Comparison of emissions inventories of anthropogenic air pollutants and greenhouse gases in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6393-6421.	1.9	116

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73	Cloud tuning in a coupled climate model: Impact on 20th century warming. Geophysical Research Letters, 2013, 40, 2246-2251.	1.5	115
74	Present and potential future contributions of sulfate, black and organic carbon aerosols from China to global air quality, premature mortality and radiative forcing. Atmospheric Environment, 2009, 43, 2814-2822.	1.9	106
75	Sensitivity of the Aerosol Indirect Effect to Subgrid Variability in the Cloud Parameterization of the GFDL Atmosphere General Circulation Model AM3. Journal of Climate, 2011, 24, 3145-3160.	1.2	105
76	Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579.	1.9	105
77	Impact of preindustrial to present-day changes in short-lived pollutant emissions on atmospheric composition and climate forcing. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8086-8110.	1.2	103
78	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. Journal of Geophysical Research, 2007, 112, .	3.3	102
79	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
80	Estimating North American background ozone in U.S. surface air with two independent global models: Variability, uncertainties, and recommendations. Atmospheric Environment, 2014, 96, 284-300.	1.9	98
81	Seasonal characteristics of tropospheric ozone production and mixing ratios over East Asia: A global three-dimensional chemical transport model analysis. Journal of Geophysical Research, 2000, 105, 17895-17910.	3.3	96
82	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. Nature Climate Change, 2020, 10, 444-451.	8.1	96
83	Net radiative forcing due to changes in regional emissions of tropospheric ozone precursors. Journal of Geophysical Research, 2005, 110, .	3.3	92
84	Modeling the Interactions between Aerosols and Liquid Water Clouds with a Self-Consistent Cloud Scheme in a General Circulation Model. Journals of the Atmospheric Sciences, 2007, 64, 1189-1209.	0.6	91
85	Impacts of 21st century climate change on global air pollution-related premature mortality. Climatic Change, 2013, 121, 239-253.	1.7	91
86	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using "Train" satellite observations and reanalysis data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2762-2780.	1.2	90
87	Impact of air pollution on wet deposition of mineral dust aerosols. Geophysical Research Letters, 2004, 31, .	1.5	89
88	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218.	1.9	89
89	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. Journal of Geophysical Research, 2008, 113, .	3.3	87
90	Evaluating inter-continental transport of fine aerosols:(2) Global health impact. Atmospheric Environment, 2009, 43, 4339-4347.	1.9	86

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91	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	83
92	Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
93	Strong sensitivity of late 21st century climate to projected changes in short-lived air pollutants. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	80
94	Radiative forcing and climate response to projected 21st century aerosol decreases. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12681-12703.	1.9	80
95	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1459-1477.	1.9	79
96	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	76
97	Multimodel projections of climate change from short-lived emissions due to human activities. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
98	The impact of China's vehicle emissions on regional air quality in 2000 and 2020: a scenario analysis. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9465-9484.	1.9	74
99	Seasonal variation of the ozone production efficiency per unit NO _x at Harvard Forest, Massachusetts. <i>Journal of Geophysical Research</i> , 1996, 101, 12659-12666.	3.3	71
100	Effect of sulfate aerosol on tropospheric NO _x and ozone budgets: Model simulations and TOPSE evidence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	70
101	Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. <i>Geophysical Research Letters</i> , 2015, 42, 8719-8728.	1.5	69
102	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). <i>Journal of Geophysical Research</i> , 1997, 102, 5979-5991.	3.3	68
103	Evaluation of aerosol distribution and optical depth in the Geophysical Fluid Dynamics Laboratory coupled model CM2.1 for present climate. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	68
104	Impact of meteorology and emissions on methane trends, 1990–2004. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	67
105	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 853-874.	1.9	65
106	Photochemical oxidant formation over southern Switzerland: 2. Model results. <i>Journal of Geophysical Research</i> , 1997, 102, 23363-23373.	3.3	64
107	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
108	Ozone air quality and radiative forcing consequences of changes in ozone precursor emissions. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	59

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109	Evaluating inter-continental transport of fine aerosols: (1) Methodology, global aerosol distribution and optical depth. <i>Atmospheric Environment</i> , 2009, 43, 4327-4338.	1.9	59
110	Global in-cloud production of secondary organic aerosols: Implementation of a detailed chemical mechanism in the GFDL atmospheric model AM3. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
111	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13265-13281.	1.9	57
112	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
113	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017, 44, 542-552.	1.5	56
114	Global impact of fossil fuel combustion on atmospheric NO _x . <i>Journal of Geophysical Research</i> , 1999, 104, 23823-23840.	3.3	55
115	Air quality modeling with WRF-Chem v3.5 in East Asia: sensitivity to emissions and evaluation of simulated air quality. <i>Geoscientific Model Development</i> , 2016, 9, 1201-1218.	1.3	55
116	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12905-12920.	1.9	55
117	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5361-5370.	1.9	54
118	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 12021-12036.	1.9	54
119	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5015-5061.	1.9	54
120	The GFDL Global Atmospheric Chemistry and Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002032.	1.3	51
121	Use of North American and European air quality networks to evaluate global chemistry-climate modeling of surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10581-10596.	1.9	50
122	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10157-10175.	1.9	50
123	Analysis of seasonal and interannual variability in transpacific transport. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	49
124	Observational constraints on glyoxal production from isoprene oxidation and its contribution to organic aerosol over the Southeast United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 9849-9861.	1.2	48
125	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. <i>Atmospheric Environment</i> , 2019, 208, 95-102.	1.9	48
126	The impacts of changing transport and precipitation on pollutant distributions in a future climate. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	47

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127	Projecting policy-relevant metrics for high summertime ozone pollution events over the eastern United States due to climate and emission changes during the 21st century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 784-800.	1.2	46
128	Effect of climate change on surface ozone over North America, Europe, and East Asia. <i>Geophysical Research Letters</i> , 2016, 43, 3509-3518.	1.5	46
129	Direct radiative forcing of anthropogenic organic aerosol. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	45
130	On the sensitivity of radiative forcing from biomass burning aerosols and ozone to emission location. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	45
131	Source-receptor relationships between East Asian sulfur dioxide emissions and Northern Hemisphere sulfate concentrations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3721-3733.	1.9	45
132	Effect of regional precursor emission controls on long-range ozone transport – Part 2: Steady-state changes in ozone air quality and impacts on human mortality. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6095-6107.	1.9	45
133	Twenty-first century reversal of the surface ozone seasonal cycle over the northeastern United States. <i>Geophysical Research Letters</i> , 2014, 41, 7343-7350.	1.5	44
134	Detection of trends in surface ozone in the presence of climate variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6112-6129.	1.2	44
135	Prospects for a prolonged slowdown in global warming in the early 21st century. <i>Nature Communications</i> , 2016, 7, 13676.	5.8	44
136	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	44
137	MICS-Asia II: Impact of global emissions on regional air quality in Asia. <i>Atmospheric Environment</i> , 2008, 42, 3543-3561.	1.9	40
138	Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. <i>Journal of Climate</i> , 2014, 27, 6960-6977.	1.2	40
139	Contrasting seasonal responses of sulfate aerosols to declining SO ₂ emissions in the Eastern U.S.: Implications for the efficacy of SO ₂ emission controls. <i>Geophysical Research Letters</i> , 2017, 44, 455-464.	1.5	40
140	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1105-1126.	1.9	39
141	Connecting regional aerosol emissions reductions to local and remote precipitation responses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12461-12475.	1.9	38
142	Summertime cyclones over the Great Lakes Storm Track from 1860–2100: variability, trends, and association with ozone pollution. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 565-578.	1.9	37
143	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013, 40, 1241-1246.	1.5	36
144	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2615-2651.	1.9	36

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145	Three-dimensional SF ₆ data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	35
146	Effect of regional precursor emission controls on long-range ozone transport – Part 1: Short-term changes in ozone air quality. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6077-6093.	1.9	35
147	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032398.	1.2	34
148	Stratospheric Ozone and Temperature Simulated from the Preindustrial Era to the Present Day. <i>Journal of Climate</i> , 2013, 26, 3528-3543.	1.2	33
149	Sensitivity of Ozone Dry Deposition to Ecosystem-Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1264-1288.	1.9	33
150	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6315-6327.	1.9	32
151	Multimodel precipitation responses to removal of U.S. sulfur dioxide emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5024-5038.	1.2	32
152	Global atmospheric chemistry – which air matters. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9081-9102.	1.9	32
153	Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1921-1941.	1.2	32
154	Effects of trans-Eurasian transport of air pollutants on surface ozone concentrations over Western China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,338.	1.2	31
155	Using beryllium-7 to assess cross-tropopause transport in global models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4641-4659.	1.9	31
156	Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the U.S. West Coast during spring 2002. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30
157	Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
158	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. <i>Journal of Climate</i> , 2013, 26, 231-245.	1.2	30
159	Constraining Transient Climate Sensitivity Using Coupled Climate Model Simulations of Volcanic Eruptions. <i>Journal of Climate</i> , 2014, 27, 7781-7795.	1.2	30
160	Gas-aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. <i>Geophysical Research Letters</i> , 2017, 44, 8084-8093.	1.5	30
161	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2341-2361.	1.9	30
162	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9641-9663.	1.9	30

#	ARTICLE	IF	CITATIONS
163	Seasonal cycles of O ₃ in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 538-557.	1.2	29
164	Tripling of western US particulate pollution from wildfires in a warming climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2111372119.	3.3	29
165	Climate Impacts From Large Volcanic Eruptions in a High-Resolution Climate Model: The Importance of Forcing Structure. <i>Geophysical Research Letters</i> , 2019, 46, 7690-7699.	1.5	28
166	Investigation of the global methane budget over 1980–2017 using GFDL-AM4.1. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 805-827.	1.9	28
167	Evaluation of factors controlling global secondary organic aerosol production from cloud processes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1913-1926.	1.9	27
168	Modulation of hydroxyl variability by ENSO in the absence of external forcing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8931-8936.	3.3	27
169	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. <i>Environmental Research Letters</i> , 2022, 17, 024014.	2.2	27
170	Inferring ice formation processes from global-scale black carbon profiles observed in the remote atmosphere and model simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
171	Co-benefits of global and regional greenhouse gas mitigation for US air quality in 2050. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9533-9548.	1.9	25
172	Representing sub-grid scale variations in nitrogen deposition associated with land use in a global Earth system model: implications for present and future nitrogen deposition fluxes over North America. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17963-17978.	1.9	25
173	Local and remote mean and extreme temperature response to regional aerosol emissions reductions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 3009-3027.	1.9	25
174	Sensitivity of the NO _x budget over the United States to anthropogenic and lightning NO _x in summer. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
175	Geophysical Fluid Dynamics Laboratory general circulation model investigation of the indirect radiative effects of anthropogenic sulfate aerosol. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	23
176	Soluble Fe in Aerosols Sustained by Gaseous HO ₂ Uptake. <i>Environmental Science and Technology Letters</i> , 2017, 4, 98-104.	3.9	22
177	On the Seasonality of Arctic Black Carbon. <i>Journal of Climate</i> , 2017, 30, 4429-4441.	1.2	22
178	Scenarios of methane emission reductions to 2030: abatement costs and co-benefits to ozone air quality and human mortality. <i>Climatic Change</i> , 2012, 114, 441-461.	1.7	21
179	Assessing the Influence of COVID-19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091699.	1.5	20
180	Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13446-13460.	3.8	20

#	ARTICLE	IF	CITATIONS
181	Summer PM _{2.5} Pollution Extremes Caused by Wildfires Over the Western United States During 2017–2018. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089429.	1.5	18
182	A direct carbon budgeting approach to infer carbon sources and sinks. Design and synthetic application to complement the NACP observation network. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 366-375.	0.8	17
183	Impact of volcanic aerosol hemispheric symmetry on Sahel rainfall. <i>Climate Dynamics</i> , 2020, 55, 1733-1758.	1.7	17
184	Transport of radon-222 and methyl iodide by deep convection in the GFDL Global Atmospheric Model AM2. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
185	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088295.	1.5	16
186	Multimodel Surface Temperature Responses to Removal of U.S. Sulfur Dioxide Emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2773-2796.	1.2	15
187	Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10379-10400.	1.9	15
188	Large uncertainties in global hydroxyl projections tied to fate of reactive nitrogen and carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
189	Improving regional ozone modeling through systematic evaluation of errors using the aircraft observations during the International Consortium for Atmospheric Research on Transport and Transformation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
190	Estimating the contribution of strong daily export events to total pollutant export from the United States in summer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	13
191	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. <i>Lancet, The</i> , 2017, 389, S23.	6.3	13
192	Long-Lived Species Enhance Summertime Attribution of North American Ozone to Upwind Sources. <i>Environmental Science & Technology</i> , 2017, 51, 5017-5025.	4.6	13
193	Simulating PM concentration during a winter episode in a subtropical valley: Sensitivity simulations and evaluation methods. <i>Atmospheric Environment</i> , 2009, 43, 5971-5977.	1.9	12
194	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085601.	1.5	12
195	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087158.	1.5	11
196	Stomatal conductance influences interannual variability and long-term changes in regional cumulative plant uptake of ozone. <i>Environmental Research Letters</i> , 2020, 15, 114059.	2.2	11
197	Global O ₃ –CO correlations in a chemistry and transport model during July–August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8429-8452.	1.9	10
198	Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3507-3524.	1.9	10

#	ARTICLE	IF	CITATIONS
199	The Global Burden of Air Pollution on Mortality: Anenberg et al. Respond. Environmental Health Perspectives, 2011, 119, 158-159.	2.8	9
200	Combining model projections with site-level observations to estimate changes in distributions and seasonality of ozone in surface air over the U.S.A.. Atmospheric Environment, 2018, 193, 302-315.	1.9	9
201	Atmospheric energy transport to the Arctic 1979â€“2012. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 67, 25482.	0.8	8
202	A potential large and persistent black carbon forcing over Northern Pacific inferred from satellite observations. Scientific Reports, 2017, 7, 43429.	1.6	7
203	Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. Geophysical Research Letters, 2021, 48, e2021GL094140.	1.5	7
204	Impact of volcanic aerosols on stratospheric ozone recovery. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9515-9528.	1.2	6
205	Response to â€œComments on â€˜Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damageâ€™ and â€˜Global crop yield reductions due to surface ozone exposure: 2. Year 2030 potential crop production losses and economic damage under two scenarios of O3 pollutionâ€™â€. Atmospheric Environment, 2013, 71, 410-411.	1.9	5
206	Using synthetic tracers as a proxy for summertime PM _{2.5} air quality over the Northeastern United States in physical climate models. Geophysical Research Letters, 2013, 40, 755-760.	1.5	5
207	Source attribution of black carbon affecting regional air quality, premature mortality and glacial deposition in 2000. Atmospheric Environment, 2019, 206, 144-155.	1.9	5
208	Ocean Ammonia Outgassing: Modulation by CO ₂ and Anthropogenic Nitrogen Deposition. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002026.	1.3	5
209	Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. Atmospheric Environment, 2021, 248, 118248.	1.9	5
210	Attribution of Stratospheric and Tropospheric Ozone Changes Between 1850 and 2014 in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	5
211	Corrigendum to â€˜Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)" published in Atmos. Chem. Phys., 13, 2607â€“2634, 2013. Atmospheric Chemistry and Physics, 2013, 13, 6553-6554.	1.9	3
212	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental sourceâ€“receptor relationships. Atmospheric Chemistry and Physics, 2018, 18, 15345-15361.	1.9	3
213	The Global Burden of Air Pollution on Mortality: Anenberg et al. respond. Environmental Health Perspectives, 2010, 118, .	2.8	1