Larry Horowitz

List of Publications by Year
in descending order

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		5782	7234
213	29,483	84	158
papers	citations	h-index	g-index

263	263	263	21478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 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. Journal of Climate, 2011, 24, 3484-3519.	1.2	887
3	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	848
4	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	846
5	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	1.9	839
6	The New GFDL Global Atmosphere and Land Model AM2â€“LM2: Evaluation with Prescribed SST Simulations. Journal of Climate, 2004, 17, 4641-4673.	1.2	756
7	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. Journal of Geophysical Research, 2006, 111, .	3.3	743
8	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. Journal of Geophysical Research, 2000, 105, 8931-8980.	3.3	730
9	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 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. Environmental Health Perspectives, 2010, 118, 1189-1195.	2.8	604
11	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 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). Atmospheric Chemistry and Physics, 2013, 13, 2063-2090.	1.9	570
13	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
14	Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage. Atmospheric Environment, 2011, 45, 2284-2296.	1.9	472
15	Multimodel estimates of intercontinental sourceâ€receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, .	3.3	430
16	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663.	18.7	428
17	A multi-model assessment of pollution transport to the Arctic. Atmospheric Chemistry and Physics, 2008, 8, 5353-5372.	1.9	419
18	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 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. Geoscientific Model Development, 2013, 6, 179-206.	1.3	388
20	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
21	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 3063-3085.	1.9	361
22	The Global Atmospheric Environment for the Next Generation. Environmental Science & Technology, 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. Journal of Geophysical Research, 2008, 113, .	3.3	335
24	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA â€œAâ€Trainâ€• satellite observations. Journal of Geophysical Research, 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 O3 pollution. Atmospheric Environment, 2011, 45, 2297-2309.	1.9	292
26	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. Journal of Climate, 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). Atmospheric Chemistry and Physics, 2013, 13, 5277-5298.	1.9	288
28	Review of the global models used within phase 1 of the Chemistryâ€“Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671.	1.3	277
29	The GFDL Earth System Model Version 4.1 (GFDLâ€ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002015.	1.3	277
30	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 2005, 110, .	3.3	266
31	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. Atmospheric Chemistry and Physics, 2013, 13, 2563-2587.	1.9	257
32	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. Journal of Geophysical Research, 2006, 111, .	3.3	254
33	Longâ€term ozone changes and associated climate impacts in CMIP5 simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5029-5060.	1.2	243
34	Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727.	1.3	242
35	The effect of harmonized emissions on aerosol properties in global models â€“ an AeroCom experiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501.	1.9	228
36	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. Journal of Geophysical Research, 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. Journal of Geophysical Research, 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. Atmospheric Chemistry and Physics, 2017, 17, 2943-2970.	1.9	218
39	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256.	1.2	213
40	Global health benefits of mitigating ozone pollution with methane emission controls. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3988-3993.	3.3	210
41	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. Journal of Geophysical Research, 2007, 112, .	3.3	200
42	Fresh air in the 21st century?. Geophysical Research Letters, 2003, 30, .	1.5	192
43	Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. Nature Communications, 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. Journal of Advances in Modeling Earth Systems, 2018, 10, 735-769.	1.3	185
45	Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651.	8.1	177
46	Export of reactive nitrogen from North America during summertime: Sensitivity to hydrocarbon chemistry. Journal of Geophysical Research, 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. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2004, 109, .	3.3	169
49	The roles of aerosol direct and indirect effects in past and future climate change. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4521-4532.	1.2	169
50	Effects of aerosols on tropospheric oxidants: A global model study. Journal of Geophysical Research, 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. Journal of Geophysical Research, 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. Journal of Geophysical Research, 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. Journal of Advances in Modeling Earth Systems, 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. Journal of Geophysical Research, 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. Atmospheric Environment, 2012, 47, 142-153.	1.9	152
56	Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. Nature Geoscience, 2014, 7, 136-143.	5.4	151
57	Seasonal transition from NOx- to hydrocarbon-limited conditions for ozone production over the eastern United States in September. Journal of Geophysical Research, 1995, 100, 9315.	3.3	150
58	Formaldehyde, glyoxal, and methylglyoxal in air and cloudwater at a rural mountain site in central Virginia. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2012, 117, .	3.3	150
60	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
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. Atmospheric Chemistry and Physics, 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. Journal of Geophysical Research, 2006, 111, .	3.3	145
63	Evaluation of factors controlling long-range transport of black carbon to the Arctic. Journal of Geophysical Research, 2011, 116, .	3.3	144
64	Halving warming with idealized solar geoengineering moderates key climate hazards. Nature Climate Change, 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. Atmospheric Chemistry and Physics, 2006, 6, 1657-1732.	1.9	135
66	A 4-D climatology (1979â€“2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products. Atmospheric Measurement Techniques, 2013, 6, 1287-1314.	1.2	131
67	Characterizing the tropospheric ozone response to methane emission controls and the benefits to climate and air quality. Journal of Geophysical Research, 2008, 113, .	3.3	128
68	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. Atmospheric Chemistry and Physics, 2018, 18, 8409-8438.	1.9	128
69	Multi-model ensemble simulations of tropospheric NO₂ compared with GOME retrievals for the year 2000. Atmospheric Chemistry and Physics, 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). Atmospheric Chemistry and Physics, 2013, 13, 2607-2634.	1.9	125
71	Formaldehyde production from isoprene oxidation acrossÂNO_{<i>x</i>}Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610.	1.9	124
72	Comparison of emissions inventories of anthropogenic air pollutants and greenhouse gases in China. Atmospheric Chemistry and Physics, 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 presentâ€day changes in shortâ€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 regimeâ€dependent cloud simulation errors in CMIP5 models using â€œAâ€Trainâ€•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. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2007, 112, .	3.3	82
93	Strong sensitivity of late 21st century climate to projected changes in shortâ€lived air pollutants. Journal of Geophysical Research, 2008, 113, .	3.3	80
94	Radiative forcing and climate response to projected 21st century aerosol decreases. Atmospheric Chemistry and Physics, 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. Atmospheric Chemistry and Physics, 2016, 16, 1459-1477.	1.9	79
96	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. Geophysical Research Letters, 2008, 35, .	1.5	76
97	Multimodel projections of climate change from shortâ€lived emissions due to human activities. Journal of Geophysical Research, 2008, 113, .	3.3	74
98	The impact of China's vehicle emissions on regional air quality in 2000 and 2020: a scenario analysis. Atmospheric Chemistry and Physics, 2011, 11, 9465-9484.	1.9	74
99	Seasonal variation of the ozone production efficiency per unit NOxat Harvard Forest, Massachusetts. Journal of Geophysical Research, 1996, 101, 12659-12666.	3.3	71
100	Effect of sulfate aerosol on tropospheric NOxand ozone budgets: Model simulations and TOPSE evidence. Journal of Geophysical Research, 2003, 108, .	3.3	70
101	Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. Geophysical Research Letters, 2015, 42, 8719-8728.	1.5	69
102	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). Journal of Geophysical Research, 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. Journal of Geophysical Research, 2006, 111, .	3.3	68
104	Impact of meteorology and emissions on methane trends, 1990â€“2004. Geophysical Research Letters, 2006, 33, .	1.5	67
105	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
106	Photochemical oxidant formation over southern Switzerland: 2. Model results. Journal of Geophysical Research, 1997, 102, 23363-23373.	3.3	64
107	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072.	1.9	61
108	Ozone air quality and radiative forcing consequences of changes in ozone precursor emissions. Geophysical Research Letters, 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. Atmospheric Environment, 2009, 43, 4327-4338.	1.9	59
110	Global inâ€cloud production of secondary organic aerosols: Implementation of a detailed chemical mechanism in the GFDL atmospheric model AM3. Journal of Geophysical Research, 2012, 117, .	3.3	57
111	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. Atmospheric Chemistry and Physics, 2018, 18, 13265-13281.	1.9	57
112	Budget of tropospheric ozone during TOPSE from two chemical transport models. Journal of Geophysical Research, 2003, 108, .	3.3	56
113	Interannual variability in ozone removal by a temperate deciduous forest. Geophysical Research Letters, 2017, 44, 542-552.	1.5	56
114	Global impact of fossil fuel combustion on atmospheric NOx. Journal of Geophysical Research, 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. Geoscientific Model Development, 2016, 9, 1201-1218.	1.3	55
116	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. Atmospheric Chemistry and Physics, 2020, 20, 12905-12920.	1.9	55
117	Observational constraints on the global atmospheric budget of ethanol. Atmospheric Chemistry and Physics, 2010, 10, 5361-5370.	1.9	54
118	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860â€“2100. Atmospheric Chemistry and Physics, 2012, 12, 12021-12036.	1.9	54
119	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. Atmospheric Chemistry and Physics, 2021, 21, 5015-5061.	1.9	54
120	The GFDL Global Atmospheric Chemistryâ€Climate Model AM4.1: Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002032.	1.3	51
121	Use of North American and European air quality networks to evaluate global chemistryâ€“climate modeling of surface ozone. Atmospheric Chemistry and Physics, 2015, 15, 10581-10596.	1.9	50
122	Exploring the relationship between surface PM_{2.5} and meteorology in Northern India. Atmospheric Chemistry and Physics, 2018, 18, 10157-10175.	1.9	50
123	Analysis of seasonal and interannual variability in transpacific transport. Journal of Geophysical Research, 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. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9849-9861.	1.2	48
125	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. Atmospheric Environment, 2019, 208, 95-102.	1.9	48
126	The impacts of changing transport and precipitation on pollutant distributions in a future climate. Journal of Geophysical Research, 2011, 116, .	3.3	47

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127	Projecting policyâ€relevant metrics for high summertime ozone pollution events over the eastern United States due to climate and emission changes during the 21st century. Journal of Geophysical Research D: Atmospheres, 2015, 120, 784-800.	1.2	46
128	Effect of climate change on surface ozone over North America, Europe, and East Asia. Geophysical Research Letters, 2016, 43, 3509-3518.	1.5	46
129	Direct radiative forcing of anthropogenic organic aerosol. Journal of Geophysical Research, 2005, 110, .	3.3	45
130	On the sensitivity of radiative forcing from biomass burning aerosols and ozone to emission location. Geophysical Research Letters, 2007, 34, .	1.5	45
131	Source-receptor relationships between East Asian sulfur dioxide emissions and Northern Hemisphere sulfate concentrations. Atmospheric Chemistry and Physics, 2008, 8, 3721-3733.	1.9	45
132	Effect of regional precursor emission controls on long-range ozone transport â€“ Part 2: Steady-state changes in ozone air quality and impacts on human mortality. Atmospheric Chemistry and Physics, 2009, 9, 6095-6107.	1.9	45
133	Twentyâ€first century reversal of the surface ozone seasonal cycle over the northeastern United States. Geophysical Research Letters, 2014, 41, 7343-7350.	1.5	44
134	Detection of trends in surface ozone in the presence of climate variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6112-6129.	1.2	44
135	Prospects for a prolonged slowdown in global warming in the early 21st century. Nature Communications, 2016, 7, 13676.	5.8	44
136	Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	44
137	MICS-Asia II: Impact of global emissions on regional air quality in Asia. Atmospheric Environment, 2008, 42, 3543-3561.	1.9	40
138	Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. Journal of Climate, 2014, 27, 6960-6977.	1.2	40
139	Contrasting seasonal responses of sulfate aerosols to declining SO₂ emissions in the Eastern U.S.: Implications for the efficacy of SO₂ emission controls. Geophysical Research Letters, 2017, 44, 455-464.	1.5	40
140	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126.	1.9	39
141	Connecting regional aerosol emissions reductions to local and remote precipitation responses. Atmospheric Chemistry and Physics, 2018, 18, 12461-12475.	1.9	38
142	Summertime cyclones over the Great Lakes Storm Track from 1860â€“2100: variability, trends, and association with ozone pollution. Atmospheric Chemistry and Physics, 2013, 13, 565-578.	1.9	37
143	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. Geophysical Research Letters, 2013, 40, 1241-1246.	1.5	36
144	Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651.	1.9	36

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145	Threeâ€dimensional SF₆ data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. Journal of Geophysical Research, 2007, 112, .	3.3	35
146	Effect of regional precursor emission controls on long-range ozone transport â€“ Part 1: Short-term changes in ozone air quality. Atmospheric Chemistry and Physics, 2009, 9, 6077-6093.	1.9	35
147	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032398.	1.2	34
148	Stratospheric Ozone and Temperature Simulated from the Preindustrial Era to the Present Day. Journal of Climate, 2013, 26, 3528-3543.	1.2	33
149	Sensitivity of Ozone Dry Deposition to Ecosystemâ€Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. Global Biogeochemical Cycles, 2019, 33, 1264-1288.	1.9	33
150	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging. Atmospheric Chemistry and Physics, 2014, 14, 6315-6327.	1.9	32
151	Multimodel precipitation responses to removal of U.S. sulfur dioxide emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5024-5038.	1.2	32
152	Global atmospheric chemistry â€“ which air matters. Atmospheric Chemistry and Physics, 2017, 17, 9081-9102.	1.9	32
153	Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1921-1941.	1.2	32
154	Effects of transâ€Eurasian transport of air pollutants on surface ozone concentrations over Western China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,338.	1.2	31
155	Using beryllium-7 to assess cross-tropopause transport in global models. Atmospheric Chemistry and Physics, 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. Journal of Geophysical Research, 2004, 109, .	3.3	30
157	Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. Journal of Geophysical Research, 2012, 117, .	3.3	30
158	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. Journal of Climate, 2013, 26, 231-245.	1.2	30
159	Constraining Transient Climate Sensitivity Using Coupled Climate Model Simulations of Volcanic Eruptions. Journal of Climate, 2014, 27, 7781-7795.	1.2	30
160	Gasâ€aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. Geophysical Research Letters, 2017, 44, 8084-8093.	1.5	30
161	Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361.	1.9	30
162	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

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163	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
164	Tripling of western US particulate pollution from wildfires in a warming climate. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2111372119.	3.3	29
165	Climate Impacts From Large Volcanic Eruptions in a Highâ€Resolution Climate Model: The Importance of Forcing Structure. Geophysical Research Letters, 2019, 46, 7690-7699.	1.5	28
166	Investigation of the global methane budget over 1980â€“2017 using GFDL-AM4.1. Atmospheric Chemistry and Physics, 2020, 20, 805-827.	1.9	28
167	Evaluation of factors controlling global secondary organic aerosol production from cloud processes. Atmospheric Chemistry and Physics, 2013, 13, 1913-1926.	1.9	27
168	Modulation of hydroxyl variability by ENSO in the absence of external forcing. Proceedings of the National Academy of Sciences of the United States of America, 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. Environmental Research Letters, 2022, 17, 024014.	2.2	27
170	Inferring ice formation processes from globalâ€scale black carbon profiles observed in the remote atmosphere and model simulations. Journal of Geophysical Research, 2012, 117, .	3.3	25
171	Co-benefits of global and regional greenhouse gas mitigation for US air quality in 2050. Atmospheric Chemistry and Physics, 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. Atmospheric Chemistry and Physics, 2018, 18, 17963-17978.	1.9	25
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