Larry Horowitz

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244 23,820 80 151 g-index

263 26,760 7 6.35 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
244	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006 , 19, 643-674	4.4	1313
243	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	4.4	768
242	A global simulation of tropospheric ozone and related tracers: Description and evaluation of MOZART, version 2. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		741
241	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	731
240	The New GFDL Global Atmosphere and Land Model AM2IIM2: Evaluation with Prescribed SST Simulations. <i>Journal of Climate</i> , 2004 , 17, 4641-4673	4.4	695
239	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7781-7816	6.8	662
238	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. <i>Journal of Geophysical Research</i> , 2000 , 105, 8931-8980		641
237	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006 , 111,		625
236	An AeroCom initial assessment lbptical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1815-1834	6.8	575
235	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9001-9026	6.8	510
234	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, 1189-95	8.4	469
233	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2063-2090	6.8	420
232	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. Journal of Geophysical Research, 2009 , 114,		378
231	Co-benefits of Global Greenhouse Gas Mitigation for Future Air Quality and Human Health. <i>Nature Climate Change</i> , 2013 , 3, 885-889	21.4	374
230	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	5.3	370
229	A multi-model assessment of pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5353-5372	6.8	365
228	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663-83	58.5	334

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227	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2939-2974	6.8	324
226	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013 , 6, 179-206	6.3	304
225	The global atmospheric environment for the next generation. <i>Environmental Science & Environmental Sci</i>	10.3	298
224	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		291
223	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA A-Train satellite observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		282
222	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013 , 8, 034005	6.2	279
221	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3063-3085	6.8	273
220	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. <i>Atmospheric Environment</i> , 2011 , 45, 2297-2309	5.3	238
219	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. Journal of Climate, 2011 , 24, 3520-3544	4.4	236
218	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5277-5298	6.8	234
217	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005 , 110,		221
216	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006 , 111,		220
215	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	6.3	211
214	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2563-2587	6.8	209
213	The effect of harmonized emissions on aerosol properties in global models (an AeroComexperiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501)	6.8	205
212	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	2 00
211	Transport of Asian ozone pollution into surface air over the western United States in spring. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		196
210	Springtime high surface ozone events over the western United States: Quantifying the role of stratospheric intrusions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		191

209	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256-11,268	4.4	182
208	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, 3988-93	11.5	175
207	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. Journal of Geophysical Research, 2007, 112,		174
206	Export of reactive nitrogen from North America during summertime: Sensitivity to hydrocarbon chemistry. <i>Journal of Geophysical Research</i> , 1998 , 103, 13451-13476		164
205	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-	29 7 0	157
204	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	152
203	Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. <i>Nature Communications</i> , 2015 , 6, 7105	17.4	151
202	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,		148
201	Effects of aerosols on tropospheric oxidants: A global model study. <i>Journal of Geophysical Research</i> , 2001 , 106, 22931-22964		146
200	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		142
199	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, n/a-n/a		137
198	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		137
197	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,		136
196	Evaluation of factors controlling long-range transport of black carbon to the Arctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		131
195	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,		131
194	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, n/a-n/a		129
193	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3691-3727	7.1	128
192	Surface ozone-temperature relationships in the eastern US: A monthly climatology for evaluating chemistry-climate models. <i>Atmospheric Environment</i> , 2012 , 47, 142-153	5.3	126

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191	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	4.4	125
190	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5719-5736	4.4	124
189	Seasonal transition from NOx- to hydrocarbon-limited conditions for ozone production over the eastern United States in September. <i>Journal of Geophysical Research</i> , 1995 , 100, 9315		123
188	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	7.1	122
187	Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. <i>Nature Geoscience</i> , 2014 , 7, 136-143	18.3	118
186	Multi-model ensemble simulations of tropospheric NO₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2943-2979	6.8	118
185	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	6.8	115
184	FUTURE GLOBAL MORTALITY FROM CHANGES IN AIR POLLUTION ATTRIBUTABLE TO CLIMATE CHANGE. <i>Nature Climate Change</i> , 2017 , 7, 647-651	21.4	114
183	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2607-2634	6.8	111
182	A 4-D climatology (1979\(\textit{0}009\)) 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, \(\textit{2013}\), 6, 1287-1314	4	109
181	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,		107
180	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	6.8	106
179	Cloud tuning in a coupled climate model: Impact on 20th century warming. <i>Geophysical Research Letters</i> , 2013 , 40, 2246-2251	4.9	102
178	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	7.1	100
177	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		99
176	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	7.1	97
175	Sensitivity of the Aerosol Indirect Effect to Subgrid Variability in the Cloud Parameterization of the GFDL Atmosphere General Circulation Model AM3. <i>Journal of Climate</i> , 2011 , 24, 3145-3160	4.4	97
174	Present and potential future contributions of sulfate, black and organic carbon aerosols from China to global air quality, premature mortality and radiative forcing. <i>Atmospheric Environment</i> , 2009 , 43, 281	14 ⁵ 2 ³ 822	95

173	Impact of preindustrial to present-day changes in short-lived pollutant emissions on atmospheric composition and climate forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8086-8110	4.4	91
172	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
171	Formaldehyde production from isoprene oxidation across NO regimes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2597-2610	6.8	88
170	Halving warming with idealized solar geoengineering moderates key climate hazards. <i>Nature Climate Change</i> , 2019 , 9, 295-299	21.4	87
169	Net radiative forcing due to changes in regional emissions of tropospheric ozone precursors. Journal of Geophysical Research, 2005 , 110,		84
168	Seasonal characteristics of tropospheric ozone production and mixing ratios over East Asia: A global three-dimensional chemical transport model analysis. <i>Journal of Geophysical Research</i> , 2000 , 105, 17895-17910		84
167	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8409-8438	6.8	81
166	Impact of air pollution on wet deposition of mineral dust aerosols. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	81
165	Modeling the Interactions between Aerosols and Liquid Water Clouds with a Self-Consistent Cloud Scheme in a General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 1189-1209	2.1	80
164	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using A-TrainBatellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2762-2780) ^{4.4}	78
163	Comparison of emissions inventories of anthropogenic air pollutants and greenhouse gases in China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6393-6421	6.8	77
162	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. <i>Journal of Geophysical Research</i> , 2008 , 113,		77
161	Evaluating inter-continental transport of fine aerosols:(2) Global health impact. <i>Atmospheric Environment</i> , 2009 , 43, 4339-4347	5.3	76
160	Strong sensitivity of late 21st century climate to projected changes in short-lived air pollutants. Journal of Geophysical Research, 2008, 113,		76
159	Estimating North American background ozone in U.S. surface air with two independent global models: Variability, uncertainties, and recommendations. <i>Atmospheric Environment</i> , 2014 , 96, 284-300	5.3	75
158	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , 2004 , 109,		73
157	Impacts of 21st century climate change on global air pollution-related premature mortality. <i>Climatic Change</i> , 2013 , 121, 239-253	4.5	71
156	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	69

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155	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,		68	
154	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	4.9	66	
153	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	6.8	66	
152	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9847-9862	6.8	65	
151	Multimodel projections of climate change from short-lived emissions due to human activities. Journal of Geophysical Research, 2008, 113,		65	
150	Seasonal variation of the ozone production efficiency per unit NOx at Harvard Forest, Massachusetts. <i>Journal of Geophysical Research</i> , 1996 , 101, 12659-12666		64	
149	Impact of meteorology and emissions on methane trends, 1990\(\textbf{0}004\). <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	62	
148	Photochemical oxidant formation over southern Switzerland: 2. Model results. <i>Journal of Geophysical Research</i> , 1997 , 102, 23363-23373		61	
147	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,		61	
146	Effect of sulfate aerosol on tropospheric NOx and ozone budgets: Model simulations and TOPSE evidence. <i>Journal of Geophysical Research</i> , 2003 , 108,		61	
145	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	6.8	55	
144	Radiative forcing and climate response to projected 21st century aerosol decreases. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12681-12703	6.8	55	
143	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). <i>Journal of Geophysical Research</i> , 1997 , 102, 5979-5991		53	
142	Ozone air quality and radiative forcing consequences of changes in ozone precursor emissions. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	53	
141	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, n/a-n/a		52	
140	Evaluating inter-continental transport of fine aerosols: (1) Methodology, global aerosol distribution and optical depth. <i>Atmospheric Environment</i> , 2009 , 43, 4327-4338	5.3	52	
139	Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860 100. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 12021-12036	6.8	52	
138	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5361-5370	6.8	48	

137	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
136	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4057-4072	6.8	46
135	Global impact of fossil fuel combustion on atmospheric NO x. <i>Journal of Geophysical Research</i> , 1999 , 104, 23823-23840		46
134	Twenty-first century reversal of the surface ozone seasonal cycle over the northeastern United States. <i>Geophysical Research Letters</i> , 2014 , 41, 7343-7350	4.9	42
133	The impacts of changing transport and precipitation on pollutant distributions in a future climate. <i>Journal of Geophysical Research</i> , 2011 , 116,		42
132	Source-receptor relationships between East Asian sulfur dioxide emissions and Northern Hemisphere sulfate concentrations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3721-3733	6.8	42
131	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	6.3	42
130	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017 , 44, 542-552	4.9	41
129	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	4.4	41
128	Direct radiative forcing of anthropogenic organic aerosol. <i>Journal of Geophysical Research</i> , 2005 , 110,		41
127	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. <i>Nature Climate Change</i> , 2020 , 10, 444-451	21.4	40
126	Global ozone and air quality: a multi-model assessment of risks to human health and crops		40
125	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	6.8	39
124	On the sensitivity of radiative forcing from biomass burning aerosols and ozone to emission location. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	39
123	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	6.8	39
122	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14547-14579	6.8	38
121		6.8 4·4	38

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119	Analysis of seasonal and interannual variability in transpacific transport. <i>Journal of Geophysical Research</i> , 2005 , 110,		37
118	Use of North American and European air quality networks to evaluate global chemistryllimate modeling of surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10581-10596	6.8	35
117	Contrasting seasonal responses of sulfate aerosols to declining SO2 emissions in the Eastern U.S.: Implications for the efficacy of SO2 emission controls. <i>Geophysical Research Letters</i> , 2017 , 44, 455-464	4.9	34
116	Exploring the relationship between surface PM_{2.5} and meteorology in Northern India. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10157-10175	6.8	34
115	Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. <i>Journal of Climate</i> , 2014 , 27, 6960-6977	4.4	33
114	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013 , 40, 1241-1246	4.9	33
113	Prospects for a prolonged slowdown in global warming in the early 21st century. <i>Nature Communications</i> , 2016 , 7, 13676	17.4	33
112	Detection of trends in surface ozone in the presence of climate variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6112-6129	4.4	32
111	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2615-2651	6.8	31
110	Effect of climate change on surface ozone over North America, Europe, and East Asia. <i>Geophysical Research Letters</i> , 2016 , 43, 3509-3518	4.9	31
109	Summertime cyclones over the Great Lakes Storm Track from 1860🛭 100: variability, trends, and association with ozone pollution. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 565-578	6.8	31
108	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	6.8	30
107	Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. Journal of Geophysical Research, 2012, 117,		29
106	Stratospheric Ozone and Temperature Simulated from the Preindustrial Era to the Present Day. <i>Journal of Climate</i> , 2013 , 26, 3528-3543	4.4	29
105	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	6.8	28
104	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. <i>Journal of Climate</i> , 2013 , 26, 231-245	4.4	28
103	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, 12,338-12,354	4.4	27
102	Three-dimensional SF6 data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		27

101	Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218	6.8	27
100	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,		26
99	Seasonal cycles of O3 in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 538-557	4.4	26
98	Constraining Transient Climate Sensitivity Using Coupled Climate Model Simulations of Volcanic Eruptions. <i>Journal of Climate</i> , 2014 , 27, 7781-7795	4.4	25
97	Evaluation of factors controlling global secondary organic aerosol production from cloud processes. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1913-1926	6.8	25
96	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002032	7.1	25
95	Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. Journal of Geophysical Research D: Atmospheres, 2018 , 123, 1921-1941	4.4	24
94	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	6.8	24
93	Using beryllium-7 to assess cross-tropopause transport in global models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4641-4659	6.8	24
92	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, n/a-n/a		24
91	Multimodel precipitation responses to removal of U.S. sulfur dioxide emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 5024-5038	4.4	23
90	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. Geophysical Research Letters, 2017, 44, 8084-8093	4.9	23
89	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,		23
88	Air quality impacts from the electrification of light-duty passenger vehicles in the United States. <i>Atmospheric Environment</i> , 2019 , 208, 95-102	5.3	22
87	Global atmospheric chemistry which air matters. Atmospheric Chemistry and Physics, 2017, 17, 9081-910	25 .8	22
86	Sensitivity of the NOy budget over the United States to anthropogenic and lightning NOx in summer. <i>Journal of Geophysical Research</i> , 2010 , 115,		22
85	Co-benefits of global and regional greenhouse gas mitigation on U.S. air quality in 2050. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9533-9548	6.8	21
84	Connecting regional aerosol emissions reductions to local and remote precipitation responses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12461-12475	6.8	21

(2007-2019)

83	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	5.9	20
82	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032398	4.4	19
81	Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12905-12920	6.8	19
80	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020 , 3,	8	18
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78	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	6.8	18
77	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	4.5	17
76	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5015-5061	6.8	16
75	Soluble Fe in Aerosols Sustained by Gaseous HO2 Uptake. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 98-104	11	15
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72	On the Seasonality of Arctic Black Carbon. <i>Journal of Climate</i> , 2017 , 30, 4429-4441	4.4	14
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70	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	3.3	14
69	Multimodel Surface Temperature Responses to Removal of U.S. Sulfur Dioxide Emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 2773-2796	4.4	13
68	Evaluation of preindustrial to present-day black carbon and its albedo forcing from ACCMIP (Atmospheric Chemistry and Climate Model Intercomparison Project)		12
67	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. <i>Lancet, The,</i> 2017 , 389, S23	40	11
66	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,		11

65	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,		11
64	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	6.8	11
63	Summer PM2.5 Pollution Extremes Caused by Wildfires Over the Western United States During 2017 2018. <i>Geophysical Research Letters</i> , 2020 , 47, e2020 GL089429	4.9	11
62	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,		10
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60	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1105-1126	6.8	10
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51	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		8
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46	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL	.04856	01 ₇	
45	Historical and future changes in air pollutants from CMIP6 models 2020,		6	
44	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics 2012 ,		6	
43	Formaldehyde production from isoprene oxidation across NO _{<i>x</i>} regimes		6	
42	Radiative forcing and climate response to projected 21st century aerosol decreases		6	
41	Source-receptor relationships between East Asian sulfur dioxide emissions and Northern Hemisphere sulfate concentrations		6	
40	Impact of volcanic aerosol hemispheric symmetry on Sahel rainfall. Climate Dynamics, 2020 , 55, 1733-17	5β2	6	
39	Observational constraints on the global atmospheric budget of ethanol		5	
38	Climate versus emission drivers of methane lifetime from 1860 2 100		5	
37	Preindustrial to present day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		5	
36	A potential large and persistent black carbon forcing over Northern Pacific inferred from satellite observations. <i>Scientific Reports</i> , 2017 , 7, 43429	4.9	4	
35	Ocean Ammonia Outgassing: Modulation by CO2 and Anthropogenic Nitrogen Deposition. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002026	7.1	4	
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32	Impact of volcanic aerosols on stratospheric ozone recovery. <i>Journal of Geophysical Research D:</i> Atmospheres, 2017 , 122, 9515-9528	4.4	3	
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30	Response to Comments on Colobal crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage and Colobal crop yield reductions due to surface ozone exposure: 2. Year 2030 potential crop production losses and economic damage	5.3	3	

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27	The impact of China's vehicle emissions on regional air quality in 2000 and 2020: a scenario analysis		3
26	Use of North American and European air quality networks to evaluate global chemistry-climate modeling of surface ozone		3
25	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth		3
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21	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	6.2	2
20	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging		2
19	Using beryllium-7 to assess cross-tropopause transport in global models		2
18	Air Quality Modeling with WRF-Chem v3.5 in East and South Asia: sensitivity to emissions and evaluation of simulated air quality		2
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16	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental sourcelleceptor relationships. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15345-15361	6.8	2
15	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Char	acteri	st <u>i</u> cs
14	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	11.5	2
13	Investigation of the global methane budget over 1980\(\textbf{Q} 017 \) using GFDL-AM4.1 2019 ,		1
12	Estimates of Ozone Return Dates from Chemistry-Climate Model Initiative Simulations 2018,		1

LIST OF PUBLICATIONS

11	The Global Burden of Air Pollution on Mortality: Anenberg et al. respond. <i>Environmental Health Perspectives</i> , 2010 , 118,	8.4	1
10	Evaluation of factors controlling global secondary organic aerosol production from cloud processes		1
9	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		1
8	A multi-model assessment of pollution transport to the Arctic		1
7	Effect of regional precursor emission controls on long-range ozone transport lPart 1: short-term changes in ozone air quality		1
6	Air pollution and associated human mortality: the role of air pollutant emissions, climate change and methane concentration increases during the industrial period		1
5	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble 2016 ,		1
4	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India 2018,		1
3	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms 2018 ,		1
2	Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094140	4.9	O
1	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	6.8	О