

Larry Horowitz

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5213142/larry-horowitz-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

244
papers

23,820
citations

80
h-index

151
g-index

263
ext. papers

26,760
ext. citations

7
avg, IF

6.35
L-index

#	Paper	IF	Citations
244	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
243	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
242	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	0
241	Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. <i>Atmospheric Environment</i> , 2021 , 248, 118248	5.3	2
240	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
239	Tropospheric ozone in CMIP6 simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4187-4218	6.8	27
238	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	6.7	3
237	Effective radiative forcing from emissions of reactive gases and aerosols in a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 853-874	6.8	18
236	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	4.9	8
235	Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094140	4.9	0
234	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1105-1126	6.8	10
233	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
232	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
231	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032398	4.4	19
230	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087158	4.9	4
229	Evaluating stratospheric ozone and water vapor changes in CMIP6 models from 1850-2100 2020 ,		8
228	Historical and future changes in air pollutants from CMIP6 models 2020 ,		6

227	Investigation of the global methane budget over 1980-2017 using GFDL-AM4.1. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 805-827	6.8	14
226	Local and remote mean and extreme temperature response to regional aerosol emissions reductions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3009-3027	6.8	8
225	Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. <i>Nature Climate Change</i> , 2020 , 10, 444-451	21.4	40
224	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	6.8	8
223	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
222	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14547-14579	6.8	38
221	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
220	Stomatal conductance influences interannual variability and long-term changes in regional cumulative plant uptake of ozone. <i>Environmental Research Letters</i> , 2020 , 15, 114059	6.2	3
219	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085601	4.9	9
218	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088295	4.9	9
217	Summer PM2.5 Pollution Extremes Caused by Wildfires Over the Western United States During 2017-2018. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089429	4.9	11
216	Impact of volcanic aerosol hemispheric symmetry on Sahel rainfall. <i>Climate Dynamics</i> , 2020 , 55, 1733-1758	4.2	6
215	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020 , 3,	8	18
214	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
213	Investigation of the global methane budget over 1980-2017 using GFDL-AM4.1 2019 ,		1
212	Source attribution of black carbon affecting regional air quality, premature mortality and glacial deposition in 2000. <i>Atmospheric Environment</i> , 2019 , 206, 144-155	5.3	3
211	Halving warming with idealized solar geoengineering moderates key climate hazards. <i>Nature Climate Change</i> , 2019 , 9, 295-299	21.4	87
210	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

209	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	4.9	15
208	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
207	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
206	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
205	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
204	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
203	Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1921-1941	4.4	24
202	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
201	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2615-2651	6.8	31
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.. <i>Atmospheric Environment</i> , 2018 , 193, 302-315	5.3	7
199	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8409-8438	6.8	81
198	Estimates of Ozone Return Dates from Chemistry-Climate Model Initiative Simulations 2018 ,		1
197	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	11.5	15
196	Chapter 13 : Air Quality. Impacts, Risks, and Adaptation in the United States: The Fourth National Climate Assessment, Volume II 2018 ,		3
195	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
194	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental source-receptor relationships. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15345-15361	6.8	2
193	Exploring the relationship between surface PM _{2.5} and meteorology in Northern India 2018 ,		1
192	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

191	Connecting regional aerosol emissions reductions to local and remote precipitation responses. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12461-12475	6.8	21
190	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
189	Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms 2018 ,		1
188	Soluble Fe in Aerosols Sustained by Gaseous HO ₂ Uptake. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 98-104	11	15
187	Interannual variability in ozone removal by a temperate deciduous forest. <i>Geophysical Research Letters</i> , 2017 , 44, 542-552	4.9	41
186	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
185	Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. <i>Lancet, The</i> , 2017 , 389, S23	4.0	11
184	On the Seasonality of Arctic Black Carbon. <i>Journal of Climate</i> , 2017 , 30, 4429-4441	4.4	14
183	Long-Lived Species Enhance Summertime Attribution of North American Ozone to Upwind Sources. <i>Environmental Science & Technology</i> , 2017 , 51, 5017-5025	10.3	8
182	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
181	Impact of volcanic aerosols on stratospheric ozone recovery. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9515-9528	4.4	3
180	FUTURE GLOBAL MORTALITY FROM CHANGES IN AIR POLLUTION ATTRIBUTABLE TO CLIMATE CHANGE. <i>Nature Climate Change</i> , 2017 , 7, 647-651	21.4	114
179	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	4.9	23
178	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	4.9	34
177	Global O-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	6.8	9
176	Global atmospheric chemistry ¶which air matters. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9081-9102	6.8	22
175	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	6.8	157
174	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

173	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
172	Using beryllium-7 to assess cross-tropopause transport in global models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4641-4659	6.8	24
171	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
170	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
169	Formaldehyde production from isoprene oxidation across NO regimes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2597-2610	6.8	88
168	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
167	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
166	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
165	Review of the global models used within the Chemistry-Climate Model Initiative (CCMI) 2016 ,		4
164	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble 2016 ,		1
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	4.4	26
162	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
161	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	4.4	38
160	Prospects for a prolonged slowdown in global warming in the early 21st century. <i>Nature Communications</i> , 2016 , 7, 13676	17.4	33
159	Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. <i>Nature Communications</i> , 2015 , 6, 7105	17.4	151
158	Radiative forcing and climate response to projected 21st century aerosol decreases. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12681-12703	6.8	55
157	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	6.8	35
156	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

155	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
154	Atmospheric energy transport to the Arctic 1979–2012. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2015 , 67, 25482	2	7
153	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
152	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
151	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
150	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
149	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
148	Constraining Transient Climate Sensitivity Using Coupled Climate Model Simulations of Volcanic Eruptions. <i>Journal of Climate</i> , 2014 , 27, 7781-7795	4.4	25
147	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
146	Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. <i>Nature Geoscience</i> , 2014 , 7, 136-143	18.3	118
145	Impacts of 21st century climate change on global air pollution-related premature mortality. <i>Climatic Change</i> , 2013 , 121, 239-253	4.5	71
144	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
143	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
142	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. <i>Journal of Climate</i> , 2013 , 26, 231-245	4.4	28
141	Cloud tuning in a coupled climate model: Impact on 20th century warming. <i>Geophysical Research Letters</i> , 2013 , 40, 2246-2251	4.9	102
140	Response to Comments on Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage and 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> , 2013 , 71, 410-411	5.3	3
139	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
138	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

137	Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. <i>Geophysical Research Letters</i> , 2013 , 40, 1241-1246	4.9	33
136	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
135	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
134	A 4-D climatology (1979–2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1287-1314	4	109
133	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
132	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
131	Summertime cyclones over the Great Lakes Storm Track from 1860–1900: variability, trends, and association with ozone pollution. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 565-578	6.8	31
130	Corrigendum to “Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)” published in <i>Atmos. Chem. Phys.</i> , 13, 2607–2634, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6553-6554	6.8	3
129	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
128	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
127	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
126	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
125	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2939-2974	6.8	324
124	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
123	Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,256-11,268	4.4	182
122	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
121	Using synthetic tracers as a proxy for summertime PM _{2.5} air quality over the Northeastern United States in physical climate models. <i>Geophysical Research Letters</i> , 2013 , 40, 755-760	4.9	3
120	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	200

119	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using A-Train satellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2762-2780	4.4	78
118	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
117	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
116	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
115	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
114	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
113	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
112	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
111	Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. <i>Journal of Geophysical Research</i> , 2012 , 117,		29
110	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
109	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
108	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012 , 41, 6663-83	58.5	334
107	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics 2012 ,		6
106	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
105	Evaluation of factors controlling long-range transport of black carbon to the Arctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		131
104	The impacts of changing transport and precipitation on pollutant distributions in a future climate. <i>Journal of Geophysical Research</i> , 2011 , 116,		42
103	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7781-7816	6.8	662
102	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

101	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
100	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
99	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. <i>Journal of Climate</i> , 2011 , 24, 3520-3544	4.4	236
98	The Global Burden of Air Pollution on Mortality: Anenberg et al. Respond. <i>Environmental Health Perspectives</i> , 2011 , 119, 158-159	8.4	8
97	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
96	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
95	The Global Burden of Air Pollution on Mortality: Anenberg et al. respond. <i>Environmental Health Perspectives</i> , 2010 , 118,	8.4	1
94	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
93	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
92	Observational constraints on the global atmospheric budget of ethanol. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5361-5370	6.8	48
91	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, 2814-2822	5.3	95
90	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
89	Evaluating inter-continental transport of fine aerosols:(2) Global health impact. <i>Atmospheric Environment</i> , 2009 , 43, 4339-4347	5.3	76
88	Simulating PM concentration during a winter episode in a subtropical valley: Sensitivity simulations and evaluation methods. <i>Atmospheric Environment</i> , 2009 , 43, 5971-5977	5.3	8
87	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. <i>Journal of Geophysical Research</i> , 2009 , 114,		378
86	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
85	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
84	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

83	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9001-9026	6.8	510
82	MICS-Asia II: Impact of global emissions on regional air quality in Asia. <i>Atmospheric Environment</i> , 2008 , 42, 3543-3561	5.3	37
81	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
80	Multimodel projections of climate change from short-lived emissions due to human activities. <i>Journal of Geophysical Research</i> , 2008 , 113,		65
79	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
78	Strong sensitivity of late 21st century climate to projected changes in short-lived air pollutants. <i>Journal of Geophysical Research</i> , 2008 , 113,		76
77	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
76	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	69
75	A multi-model assessment of pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5353-5372	6.8	365
74	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
73	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
72	Ozone air quality and radiative forcing consequences of changes in ozone precursor emissions. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	53
71	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
70	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
69	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
68	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
67	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
66	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

65	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
64	The effect of harmonized emissions on aerosol properties in global models in an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4489-4501	6.8	205
63	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
62	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
61	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
60	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , 2006 , 111,		625
59	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
58	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
57	Impact of meteorology and emissions on methane trends, 1990-2004. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	62
56	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , 2006 , 111,		220
55	The global atmospheric environment for the next generation. <i>Environmental Science & Technology</i> , 2006 , 40, 3586-94	10.3	298
54	An AeroCom initial assessment of optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1815-1834	6.8	575
53	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
52	Multi-model ensemble simulations of tropospheric NO ₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2943-2979	6.8	118
51	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
50	Analysis of seasonal and interannual variability in transpacific transport. <i>Journal of Geophysical Research</i> , 2005 , 110,		37
49	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
48	Direct radiative forcing of anthropogenic organic aerosol. <i>Journal of Geophysical Research</i> , 2005 , 110,		41

47	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
46	Net radiative forcing due to changes in regional emissions of tropospheric ozone precursors. <i>Journal of Geophysical Research</i> , 2005 , 110,		84
45	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
44	The New GFDL Global Atmosphere and Land Model AM2-2M2: Evaluation with Prescribed SST Simulations. <i>Journal of Climate</i> , 2004 , 17, 4641-4673	4.4	695
43	Impact of air pollution on wet deposition of mineral dust aerosols. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	81
42	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
41	Impact of Asian emissions on observations at Trinidad Head, California, during ITCT 2K2. <i>Journal of Geophysical Research</i> , 2004 , 109,		73
40	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
39	Effect of sulfate aerosol on tropospheric NO _x and ozone budgets: Model simulations and TOPSE evidence. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
38	Fresh air in the 21st century?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	152
37	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
36	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
35	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
34	Effects of aerosols on tropospheric oxidants: A global model study. <i>Journal of Geophysical Research</i> , 2001 , 106, 22931-22964		146
33	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. <i>Journal of Geophysical Research</i> , 2000 , 105, 8931-8980		641
32	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
31	Global impact of fossil fuel combustion on atmospheric NO _x . <i>Journal of Geophysical Research</i> , 1999 , 104, 23823-23840		46
30	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

29	Export of reactive nitrogen from North America during summertime: Sensitivity to hydrocarbon chemistry. <i>Journal of Geophysical Research</i> , 1998 , 103, 13451-13476	164
28	Photochemical oxidant formation over southern Switzerland: 2. Model results. <i>Journal of Geophysical Research</i> , 1997 , 102, 23363-23373	61
27	Results from the Intergovernmental Panel on Climatic Change Photochemical Model Intercomparison (PhotoComp). <i>Journal of Geophysical Research</i> , 1997 , 102, 5979-5991	53
26	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	64
25	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	123
24	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
23	Observational constraints on the global atmospheric budget of ethanol	5
22	The impact of China's vehicle emissions on regional air quality in 2000 and 2020: a scenario analysis	3
21	Climate versus emission drivers of methane lifetime from 1860-2100	5
20	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)	8
19	Evaluation of preindustrial to present-day black carbon and its albedo forcing from ACCMIP (Atmospheric Chemistry and Climate Model Intercomparison Project)	12
18	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations	10
17	Observational constraints on ozone radiative forcing from the Atmospheric Chemistry Climate Model Intercomparison Project (ACCMIP)	7
16	Evaluation of factors controlling global secondary organic aerosol production from cloud processes	1
15	Preindustrial to present day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)	5
14	Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging	2
13	Use of North American and European air quality networks to evaluate global chemistry-climate modeling of surface ozone	3
12	Sensitivity of nitrate aerosols to ammonia emissions and to nitrate chemistry: implications for present and future nitrate optical depth	3

11	Using beryllium-7 to assess cross-tropopause transport in global models	2
10	Formaldehyde production from isoprene oxidation across NO _x regimes	6
9	Radiative forcing and climate response to projected 21st century aerosol decreases	6
8	Global ozone and air quality: a multi-model assessment of risks to human health and crops	40
7	Source-receptor relationships between East Asian sulfur dioxide emissions and Northern Hemisphere sulfate concentrations	6
6	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
5	Air Quality Modeling with WRF-Chem v3.5 in East and South Asia: sensitivity to emissions and evaluation of simulated air quality	2
4	A multi-model assessment of pollution transport to the Arctic	1
3	Effect of regional precursor emission controls on long-range ozone transport [Part 1: short-term changes in ozone air quality]	1
2	Air pollution and associated human mortality: the role of air pollutant emissions, climate change and methane concentration increases during the industrial period	1
1	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics	1