# Larry Horowitz

List of Publications by Year
in descending order

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|---|---|---|---|
| 213 papers | 29,483 citations | 4960 84 h-index | 6300 158 g-index |
| 263 all docs | 263 docs citations | 263 times ranked | 18964 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Atmospheric energy transport to the Arctic 1979â€“2012. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 67, 25482. | 1.7 | 8 |
| 2 | Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. Environmental Research Letters, 2022, 17, 024014. | 5.2 | 27 |
| 3 | 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. | 7.1 | 29 |
| 4 | Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. Atmospheric Chemistry and Physics, 2022, 22, 3507-3524. | 4.9 | 10 |
| 5 | Attribution of Stratospheric and Tropospheric Ozone Changes Between 1850 and 2014 in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, . | 3.3 | 5 |
| 6 | Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874. | 4.9 | 65 |
| 7 | Assessing the Influence of COVIDâ€19 on the Shortwave Radiative Fluxes Over the East Asian Marginal Seas. Geophysical Research Letters, 2021, 48, e2020GL091699. | 4.0 | 20 |
| 8 | Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. Atmospheric Environment, 2021, 248, 118248. | 4.1 | 5 |
| 9 | Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. Atmospheric Chemistry and Physics, 2021, 21, 5015-5061. | 4.9 | 54 |
| 10 | Tropospheric ozone in CMIP6 simulations. Atmospheric Chemistry and Physics, 2021, 21, 4187-4218. | 4.9 | 89 |
| 11 | Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing. International Journal of Hydrogen Energy, 2021, 46, 13446-13460. | 7.1 | 20 |
| 12 | Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. Geophysical Research Letters, 2021, 48, e2021GL094140. | 4.0 | 7 |
| 13 | Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 1105-1126. | 4.9 | 39 |
| 14 | Large uncertainties in global hydroxyl projections tied to fate of reactive nitrogen and carbon. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 15 |
| 15 | Revisiting the Impact of Sea Salt on Climate Sensitivity. Geophysical Research Letters, 2020, 47, e2019GL085601. | 4.0 | 12 |
| 16 | Reappraisal of the Climate Impacts of Ozoneâ€Depleting Substances. Geophysical Research Letters, 2020, 47, e2020GL088295. | 4.0 | 16 |
| 17 | Summer PM<sub>2.5</sub> Pollution Extremes Caused by Wildfires Over the Western United States During 2017â€“2018. Geophysical Research Letters, 2020, 47, e2020GL089429. | 4.0 | 18 |
| 18 | Impact of volcanic aerosol hemispheric symmetry on Sahel rainfall. Climate Dynamics, 2020, 55, 1733-1758. | 3.8 | 17 |

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| 19 | Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, . | 6.8 | 44 |
| 20 | The GFDL Global Atmospheric Chemistryâ€Climate Model AM4.1: Model Description and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002032. | 3.8 | 51 |
| 21 | 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. | 3.8 | 277 |
| 22 | Ocean Ammonia Outgassing: Modulation by CO<sub>2</sub> and Anthropogenic Nitrogen Deposition. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002026. | 3.8 | 5 |
| 23 | Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032398. | 3.3 | 34 |
| 24 | Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. Geophysical Research Letters, 2020, 47, e2020GL087158. | 4.0 | 11 |
| 25 | Investigation of the global methane budget over 1980â€“2017 using GFDL-AM4.1. Atmospheric Chemistry and Physics, 2020, 20, 805-827. | 4.9 | 28 |
| 26 | Local and remote mean and extreme temperature response to regional aerosol emissions reductions. Atmospheric Chemistry and Physics, 2020, 20, 3009-3027. | 4.9 | 25 |
| 27 | Vegetation feedbacks during drought exacerbate ozone air pollution extremes in Europe. Nature Climate Change, 2020, 10, 444-451. | 18.8 | 96 |
| 28 | Stomatal conductance influences interannual variability and long-term changes in regional cumulative plant uptake of ozone. Environmental Research Letters, 2020, 15, 114059. | 5.2 | 11 |
| 29 | Characterizing sources of high surface ozone events in the southwestern US with intensive field measurements and two global models. Atmospheric Chemistry and Physics, 2020, 20, 10379-10400. | 4.9 | 15 |
| 30 | Trends in global tropospheric hydroxyl radical and methane lifetime since 1850 from AerChemMIP. Atmospheric Chemistry and Physics, 2020, 20, 12905-12920. | 4.9 | 55 |
| 31 | Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579. | 4.9 | 105 |
| 32 | Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663. | 4.9 | 30 |
| 33 | Climate Impacts From Large Volcanic Eruptions in a Highâ€Resolution Climate Model: The Importance of Forcing Structure. Geophysical Research Letters, 2019, 46, 7690-7699. | 4.0 | 28 |
| 34 | Sensitivity of Ozone Dry Deposition to Ecosystemâ€Atmosphere Interactions: A Critical Appraisal of Observations and Simulations. Global Biogeochemical Cycles, 2019, 33, 1264-1288. | 4.9 | 33 |
| 35 | Structure and Performance of GFDL's CM4.0 Climate Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 3691-3727. | 3.8 | 242 |
| 36 | Source attribution of black carbon affecting regional air quality, premature mortality and glacial deposition in 2000. Atmospheric Environment, 2019, 206, 144-155. | 4.1 | 5 |

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| 37 | Halving warming with idealized solar geoengineering moderates key climate hazards. Nature Climate Change, 2019, 9, 295-299. | 18.8 | 139 |
| 38 | Air quality impacts from the electrification of light-duty passenger vehicles in the United States. Atmospheric Environment, 2019, 208, 95-102. | 4.1 | 48 |
| 39 | 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. | 3.8 | 185 |
| 40 | 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. | 3.8 | 155 |
| 41 | Multimodel Surface Temperature Responses to Removal of U.S. Sulfur Dioxide Emissions. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2773-2796. | 3.3 | 15 |
| 42 | Equilibrium Climate Sensitivity Obtained From Multimillennial Runs of Two GFDL Climate Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1921-1941. | 3.3 | 32 |
| 43 | Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361. | 4.9 | 30 |
| 44 | Southeast Atmosphere Studies: learning from model-observation syntheses. Atmospheric Chemistry and Physics, 2018, 18, 2615-2651. | 4.9 | 36 |
| 45 | 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. | 4.9 | 25 |
| 46 | Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental sourceâ€“receptor relationships. Atmospheric Chemistry and Physics, 2018, 18, 15345-15361. | 4.9 | 3 |
| 47 | Exploring the relationship between surface PM<sub>2.5</sub> and meteorology in Northern India. Atmospheric Chemistry and Physics, 2018, 18, 10157-10175. | 4.9 | 50 |
| 48 | Connecting regional aerosol emissions reductions to local and remote precipitation responses. Atmospheric Chemistry and Physics, 2018, 18, 12461-12475. | 4.9 | 38 |
| 49 | Changes in the aerosol direct radiative forcing from 2001 to 2015: observational constraints and regional mechanisms. Atmospheric Chemistry and Physics, 2018, 18, 13265-13281. | 4.9 | 57 |
| 50 | Combining model projections with site-level observations to estimate changes in distributions and seasonality of ozone in surface air over the U.S.A.. Atmospheric Environment, 2018, 193, 302-315. | 4.1 | 9 |
| 51 | Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. Atmospheric Chemistry and Physics, 2018, 18, 8409-8438. | 4.9 | 128 |
| 52 | 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. | 7.1 | 27 |
| 53 | Soluble Fe in Aerosols Sustained by Gaseous HO<sub>2</sub> Uptake. Environmental Science and Technology Letters, 2017, 4, 98-104. | 8.7 | 22 |
| 54 | Interannual variability in ozone removal by a temperate deciduous forest. Geophysical Research Letters, 2017, 44, 542-552. | 4.0 | 56 |

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| 55 | Multimodel precipitation responses to removal of U.S. sulfur dioxide emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5024-5038. | 3.3 | 32 |
| 56 | Cobenefits of global and domestic greenhouse gas emissions for air quality and human health. Lancet, The, 2017, 389, S23. | 13.7 | 13 |
| 57 | On the Seasonality of Arctic Black Carbon. Journal of Climate, 2017, 30, 4429-4441. | 3.2 | 22 |
| 58 | Long-Lived Species Enhance Summertime Attribution of North American Ozone to Upwind Sources. Environmental Science & Technology, 2017, 51, 5017-5025. | 10.0 | 13 |
| 59 | A potential large and persistent black carbon forcing over Northern Pacific inferred from satellite observations. Scientific Reports, 2017, 7, 43429. | 3.3 | 7 |
| 60 | Impact of volcanic aerosols on stratospheric ozone recovery. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9515-9528. | 3.3 | 6 |
| 61 | Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651. | 18.8 | 177 |
| 62 | 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. | 4.0 | 30 |
| 63 | Contrasting seasonal responses of sulfate aerosols to declining SO<sub>2</sub> emissions in the Eastern U.S.: Implications for the efficacy of SO<sub>2</sub> emission controls. Geophysical Research Letters, 2017, 44, 455-464. | 4.0 | 40 |
| 64 | Global O<sub>3</sub>â€“CO correlations in a chemistry and transport model during Julyâ€“August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. Atmospheric Chemistry and Physics, 2017, 17, 8429-8452. | 4.9 | 10 |
| 65 | Global atmospheric chemistry â€“ which air matters. Atmospheric Chemistry and Physics, 2017, 17, 9081-9102. | 4.9 | 32 |
| 66 | 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. | 4.9 | 218 |
| 67 | Comparison of emissions inventories of anthropogenic air pollutants and greenhouse gases in China. Atmospheric Chemistry and Physics, 2017, 17, 6393-6421. | 4.9 | 116 |
| 68 | Review of the global models used within phase 1 of the Chemistryâ€“Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671. | 3.6 | 277 |
| 69 | 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. | 3.6 | 55 |
| 70 | 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. | 3.3 | 29 |
| 71 | Detection of trends in surface ozone in the presence of climate variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6112-6129. | 3.3 | 44 |
| 72 | 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. | 3.3 | 48 |

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| 73 | Prospects for a prolonged slowdown in global warming in the early 21st century. Nature Communications, 2016, 7, 13676. | 12.8 | 44 |
| 74 | Using beryllium-7 to assess cross-tropopause transport in global models. Atmospheric Chemistry and Physics, 2016, 16, 4641-4659. | 4.9 | 31 |
| 75 | 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. | 4.9 | 101 |
| 76 | 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. | 4.9 | 79 |
| 77 | Formaldehyde production from isoprene oxidation acrossÂNO<sub><i>x</i></sub>Âregimes. Atmospheric Chemistry and Physics, 2016, 16, 2597-2610. | 4.9 | 124 |
| 78 | Co-benefits of global and regional greenhouse gas mitigation for US air quality in 2050. Atmospheric Chemistry and Physics, 2016, 16, 9533-9548. | 4.9 | 25 |
| 79 | Effect of climate change on surface ozone over North America, Europe, and East Asia. Geophysical Research Letters, 2016, 43, 3509-3518. | 4.0 | 46 |
| 80 | Radiative forcing and climate response to projected 21st century aerosol decreases. Atmospheric Chemistry and Physics, 2015, 15, 12681-12703. | 4.9 | 80 |
| 81 | 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. | 4.9 | 50 |
| 82 | Revisiting the evidence of increasing springtime ozone mixing ratios in the free troposphere over western North America. Geophysical Research Letters, 2015, 42, 8719-8728. | 4.0 | 69 |
| 83 | 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. | 3.3 | 46 |
| 84 | Climate variability modulates western US ozone air quality in spring via deep stratospheric intrusions. Nature Communications, 2015, 6, 7105. | 12.8 | 186 |
| 85 | Constraining Transient Climate Sensitivity Using Coupled Climate Model Simulations of Volcanic Eruptions. Journal of Climate, 2014, 27, 7781-7795. | 3.2 | 30 |
| 86 | 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. | 3.3 | 31 |
| 87 | Tropospheric ozone trends at Mauna Loa Observatory tied to decadal climate variability. Nature Geoscience, 2014, 7, 136-143. | 12.9 | 151 |
| 88 | 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. | 4.1 | 98 |
| 89 | Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. Journal of Climate, 2014, 27, 6960-6977. | 3.2 | 40 |
| 90 | 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. | 3.3 | 149 |

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| 91 | Twentyâ€first century reversal of the surface ozone seasonal cycle over the northeastern United States. Geophysical Research Letters, 2014, 41, 7343-7350. | 4.0 | 44 |
| 92 | Analysis of transpacific transport of black carbon during HIPPO-3: implications for black carbon aging. Atmospheric Chemistry and Physics, 2014, 14, 6315-6327. | 4.9 | 32 |
| 93 | Impacts of 21st century climate change on global air pollution-related premature mortality. Climatic Change, 2013, 121, 239-253. | 3.6 | 91 |
| 94 | Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005. | 5.2 | 381 |
| 95 | The roles of aerosol direct and indirect effects in past and future climate change. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4521-4532. | 3.3 | 169 |
| 96 | Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. Journal of Climate, 2013, 26, 231-245. | 3.2 | 30 |
| 97 | Cloud tuning in a coupled climate model: Impact on 20th century warming. Geophysical Research Letters, 2013, 40, 2246-2251. | 4.0 | 115 |
| 98 | Response to â€œComments on â€˜Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damageâ€™ and â€˜Global crop yield reductions due to surface ozone exposure: 2. Year 2030 potential crop production losses and economic damage under two scenarios of O3 pollutionâ€™â€•. Atmospheric Environment, 2013, 71, 410-411. | 4.1 | 5 |
| 99 | Co-benefits of mitigating global greenhouse gas emissions for future air quality and human health. Nature Climate Change, 2013, 3, 885-889. | 18.8 | 505 |
| 100 | Stratospheric Ozone and Temperature Simulated from the Preindustrial Era to the Present Day. Journal of Climate, 2013, 26, 3528-3543. | 3.2 | 33 |
| 101 | Sensitivity of tropospheric oxidants to biomass burning emissions: implications for radiative forcing. Geophysical Research Letters, 2013, 40, 1241-1246. | 4.0 | 36 |
| 102 | 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. | 3.6 | 388 |
| 103 | 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. | 4.9 | 288 |
| 104 | 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. | 3.1 | 131 |
| 105 | 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. | 4.9 | 570 |
| 106 | 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. | 4.9 | 125 |
| 107 | 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. | 4.9 | 37 |
| 108 | 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 Atmos. Chem. Phys., 13, 2607â€“2634, 2013. Atmospheric Chemistry and Physics, 2013, 13, 6553-6554. | 4.9 | 3 |

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| 109 | 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. | 4.9 | 361 |
| 110 | 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. | 4.9 | 148 |
| 111 | Evaluation of factors controlling global secondary organic aerosol production from cloud processes. Atmospheric Chemistry and Physics, 2013, 13, 1913-1926. | 4.9 | 27 |
| 112 | Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. Atmospheric Chemistry and Physics, 2013, 13, 2563-2587. | 4.9 | 257 |
| 113 | Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974. | 4.9 | 395 |
| 114 | Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072. | 4.9 | 61 |
| 115 | Ozone and organic nitrates over the eastern United States: Sensitivity to isoprene chemistry. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,256. | 3.3 | 213 |
| 116 | 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. | 3.3 | 103 |
| 117 | Using synthetic tracers as a proxy for summertime PM<sub>2.5</sub> air quality over the Northeastern United States in physical climate models. Geophysical Research Letters, 2013, 40, 755-760. | 4.0 | 5 |
| 118 | Longâ€term ozone changes and associated climate impacts in CMIP5 simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5029-5060. | 3.3 | 243 |
| 119 | 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. | 3.3 | 90 |
| 120 | Climate versus emission drivers of methane lifetime against loss by tropospheric OH from 1860â€“2100. Atmospheric Chemistry and Physics, 2012, 12, 12021-12036. | 4.9 | 54 |
| 121 | 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 |
| 122 | Scenarios of methane emission reductions to 2030: abatement costs and co-benefits to ozone air quality and human mortality. Climatic Change, 2012, 114, 441-461. | 3.6 | 21 |
| 123 | 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 |
| 124 | Transport of Asian ozone pollution into surface air over the western United States in spring. Journal of Geophysical Research, 2012, 117, . | 3.3 | 218 |
| 125 | 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 |
| 126 | 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 |

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| 127 | Sensitivity of scattering and absorbing aerosol direct radiative forcing to physical climate factors. Journal of Geophysical Research, 2012, 117, . | 3.3 | 30 |
| 128 | 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 |
| 129 | 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 |
| 130 | Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663. | 38.1 | 428 |
| 131 | Surface ozone-temperature relationships in the eastern US: A monthly climatology for evaluating chemistry-climate models. Atmospheric Environment, 2012, 47, 142-153. | 4.1 | 152 |
| 132 | Evaluation of factors controlling long-range transport of black carbon to the Arctic. Journal of Geophysical Research, 2011, 116, . | 3.3 | 144 |
| 133 | The impacts of changing transport and precipitation on pollutant distributions in a future climate. Journal of Geophysical Research, 2011, 116, . | 3.3 | 47 |
| 134 | Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816. | 4.9 | 839 |
| 135 | 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. | 4.9 | 74 |
| 136 | Global crop yield reductions due to surface ozone exposure: 1. Year 2000 crop production losses and economic damage. Atmospheric Environment, 2011, 45, 2284-2296. | 4.1 | 472 |
| 137 | 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. | 4.1 | 292 |
| 138 | The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. Journal of Climate, 2011, 24, 3520-3544. | 3.2 | 288 |
| 139 | The Global Burden of Air Pollution on Mortality: Anenberg et al. Respond. Environmental Health Perspectives, 2011, 119, 158-159. | 6.0 | 9 |
| 140 | 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. | 3.2 | 887 |
| 141 | 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. | 3.2 | 105 |
| 142 | Observational constraints on the global atmospheric budget of ethanol. Atmospheric Chemistry and Physics, 2010, 10, 5361-5370. | 4.9 | 54 |
| 143 | The Global Burden of Air Pollution on Mortality: Anenberg et al. respond. Environmental Health Perspectives, 2010, 118, . | 6.0 | 1 |
| 144 | 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. | 6.0 | 604 |

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| 145 | Sensitivity of the NO<sub>y</sub> budget over the United States to anthropogenic and lightning NO<sub>x</sub> in summer. Journal of Geophysical Research, 2010, 115, . | 3.3 | 24 |
| 146 | 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. | 4.1 | 106 |
| 147 | Evaluating inter-continental transport of fine aerosols: (1) Methodology, global aerosol distribution and optical depth. Atmospheric Environment, 2009, 43, 4327-4338. | 4.1 | 59 |
| 148 | Evaluating inter-continental transport of fine aerosols:(2) Global health impact. Atmospheric Environment, 2009, 43, 4339-4347. | 4.1 | 86 |
| 149 | Simulating PM concentration during a winter episode in a subtropical valley: Sensitivity simulations and evaluation methods. Atmospheric Environment, 2009, 43, 5971-5977. | 4.1 | 12 |
| 150 | Multimodel estimates of intercontinental sourceâ€receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, . | 3.3 | 430 |
| 151 | Estimating the contribution of strong daily export events to total pollutant export from the United States in summer. Journal of Geophysical Research, 2009, 114, . | 3.3 | 13 |
| 152 | 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. | 4.9 | 45 |
| 153 | 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. | 4.9 | 35 |
| 154 | Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026. | 4.9 | 585 |
| 155 | MICS-Asia II: Impact of global emissions on regional air quality in Asia. Atmospheric Environment, 2008, 42, 3543-3561. | 4.1 | 40 |
| 156 | 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 |
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