

Andrew Gettelman

List of Publications by Year in descending order

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Version: 2024-02-01

194
papers

20,462
citations

12322

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12258

133
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237
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237
docs citations

237
times ranked

12224
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | To assess marine cloud brightening's technical feasibility, we need to know what to study and when to stop. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 14 |
| 2 | Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674. | 1.9 | 44 |
| 3 | Conservation of Dry Air, Water, and Energy in CAM and Its Potential Impact on Tropical Rainfall. Journal of Climate, 2022, 35, 2895-2917. | 1.2 | 2 |
| 4 | Exploring dimethyl sulfide (DMS) oxidation and implications for global aerosol radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 1549-1573. | 1.9 | 33 |
| 5 | The future of Earth system prediction: Advances in model-data fusion. Science Advances, 2022, 8, eabn3488. | 4.7 | 35 |
| 6 | LGM Paleoclimate Constraints Inform Cloud Parameterizations and Equilibrium Climate Sensitivity in CESM2. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 1.3 | 26 |
| 7 | Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. Geoscientific Model Development, 2022, 15, 2881-2916. | 1.3 | 17 |
| 8 | Thank You to Our 2021 Peer Reviewers. Reviews of Geophysics, 2022, 60, . | 9.0 | 0 |
| 9 | The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. Atmospheric Environment, 2021, 244, 117834. | 1.9 | 491 |
| 10 | Climate Impacts of COVID-19 Induced Emission Changes. Geophysical Research Letters, 2021, 48, e2020GL091805. | 1.5 | 38 |
| 11 | Evaluation of Cloud and Precipitation Simulations in CAM6 and AM4 Using Observations Over the Southern Ocean. Earth and Space Science, 2021, 8, e2020EA001241. | 1.1 | 10 |
| 12 | Machine Learning the Warm Rain Process. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002268. | 1.3 | 35 |
| 13 | Thank You to Our Peer Reviewers for 2020. Reviews of Geophysics, 2021, 59, e2021RG000741. | 9.0 | 0 |
| 14 | Influences of Recent Particle Formation on Southern Ocean Aerosol Variability and Low Cloud Properties. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033529. | 1.2 | 32 |
| 15 | Observations of Clouds, Aerosols, Precipitation, and Surface Radiation over the Southern Ocean: An Overview of CAPRICORN, MARCUS, MICRE, and SOCRATES. Bulletin of the American Meteorological Society, 2021, 102, E894-E928. | 1.7 | 103 |
| 16 | The climate impact of COVID-19-induced contrail changes. Atmospheric Chemistry and Physics, 2021, 21, 9405-9416. | 1.9 | 16 |
| 17 | Confronting Future Models with Future Satellite Observations of Clouds and Aerosols. Bulletin of the American Meteorological Society, 2021, 102, E1557-E1562. | 1.7 | 3 |
| 18 | Evaluation of the CAM6 Climate Model Using Cloud Observations at McMurdo Station, Antarctica. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034653. | 1.2 | 5 |

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| 19 | Ten new insights in climate science 2021: a horizon scan. <i>Global Sustainability</i> , 2021, 4, . | 1.6 | 26 |
| 20 | Ice and Supercooled Liquid Water Distributions Over the Southern Ocean Based on In Situ Observations and Climate Model Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, . | 1.2 | 9 |
| 21 | Toward a Consistent Definition between Satellite and Model Clear-Sky Radiative Fluxes. <i>Journal of Climate</i> , 2020, 33, 61-75. | 1.2 | 22 |
| 22 | Evaluation of Modeled Precipitation in Oceanic Extratropical Cyclones Using IMERG. <i>Journal of Climate</i> , 2020, 33, 95-113. | 1.2 | 10 |
| 23 | Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000660. | 9.0 | 424 |
| 24 | Convective Transition Statistics over Tropical Oceans for Climate Model Diagnostics: GCM Evaluation. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 379-403. | 0.6 | 22 |
| 25 | Characteristics of Future Warmer Base States in CESM2. <i>Earth and Space Science</i> , 2020, 7, e2020EA001296. | 1.1 | 14 |
| 26 | How Well Do Large-scale Eddy Simulations and Global Climate Models Represent Observed Boundary Layer Structures and Low Clouds Over the Summertime Southern Ocean?. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002205. | 1.3 | 26 |
| 27 | Simulating Observations of Southern Ocean Clouds and Implications for Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032619. | 1.2 | 42 |
| 28 | Arctic and Antarctic Sea Ice Mean State in the Community Earth System Model Version 2 and the Influence of Atmospheric Chemistry. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015934. | 1.0 | 29 |
| 29 | An Evaluation of the Large-scale Atmospheric Circulation and Its Variability in CESM2 and Other CMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032835. | 1.2 | 55 |
| 30 | Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150-year, and Longer Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088852. | 1.5 | 16 |
| 31 | CO ₂ Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002120. | 1.3 | 25 |
| 32 | The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916. | 1.3 | 935 |
| 33 | Impact of Cloud Physics on the Greenland Ice Sheet Near-Surface Climate: A Study With the Community Atmosphere Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031470. | 1.2 | 16 |
| 34 | The Brewer-Dobson Circulation During the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086271. | 1.5 | 17 |
| 35 | Surprising similarities in model and observational aerosol radiative forcing estimates. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 613-623. | 1.9 | 39 |
| 36 | The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882. | 1.3 | 189 |

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| 37 | Exploring Impacts of Size-Dependent Evaporation and Entrainment in a Global Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031817. | 1.2 | 4 |
| 38 | New Generation of Climate Models Track Recent Unprecedented Changes in Earth's Radiation Budget Observed by CERES. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086705. | 1.5 | 39 |
| 39 | Contributions of the Liquid and Ice Phases to Global Surface Precipitation: Observations and Global Climate Modeling. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2629-2648. | 0.6 | 34 |
| 40 | Using A-Train Observations to Evaluate East Pacific Cloud Occurrence and Radiative Effects in the Community Atmosphere Model. <i>Journal of Climate</i> , 2020, 33, 6187-6203. | 1.2 | 6 |
| 41 | On the Covariability of Cloud and Rain Water as a Function of Length Scale. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 2295-2308. | 0.6 | 7 |
| 42 | The Impact of Rimed Ice Hydrometeors on Global and Regional Climate. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1543-1562. | 1.3 | 17 |
| 43 | High Climate Sensitivity in the Community Earth System Model Version 2 (CESM2). <i>Geophysical Research Letters</i> , 2019, 46, 8329-8337. | 1.5 | 249 |
| 44 | CAM6 simulation of mean and extreme precipitation over Asia: sensitivity to upgraded physical parameterizations and higher horizontal resolution. <i>Geoscientific Model Development</i> , 2019, 12, 3773-3793. | 1.3 | 28 |
| 45 | The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403. | 1.2 | 261 |
| 46 | Using A-Train Observations to Evaluate Cloud Occurrence and Radiative Effects in the Community Atmosphere Model during the Southeast Asia Summer Monsoon. <i>Journal of Climate</i> , 2019, 32, 4145-4165. | 1.2 | 13 |
| 47 | Cloud Microphysics Across Scales for Weather and Climate. <i>Springer Atmospheric Sciences</i> , 2019, , 71-94. | 0.4 | 2 |
| 48 | Constraining the aerosol influence on cloud liquid water path. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5331-5347. | 1.9 | 104 |
| 49 | Process-Oriented Evaluation of Climate and Weather Forecasting Models. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1665-1686. | 1.7 | 36 |
| 50 | Cloud, Aerosol, and Boundary Layer Structure across the Northeast Pacific Stratocumulus-Cumulus Transition as Observed during CSET. <i>Monthly Weather Review</i> , 2019, 147, 2083-2103. | 0.5 | 17 |
| 51 | 100 Years of Earth System Model Development. <i>Meteorological Monographs</i> , 2019, 59, 12.1-12.66. | 5.0 | 48 |
| 52 | The Single Column Atmosphere Model Version 6 (SCAM6): Not a Scam but a Tool for Model Evaluation and Development. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1381-1401. | 1.3 | 36 |
| 53 | Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4323-4351. | 1.3 | 87 |
| 54 | Investigating the Impact of Mixed Precision on Correctness for a Large Climate Code. , 2019, , . | | 1 |

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| 55 | Simulated differences in 21st century aridity due to different scenarios of greenhouse gases and aerosols. <i>Climatic Change</i> , 2018, 146, 407-422. | 1.7 | 76 |
| 56 | Projections of future tropical cyclone damage with a high-resolution global climate model. <i>Climatic Change</i> , 2018, 146, 575-585. | 1.7 | 55 |
| 57 | The Benefits of Reduced Anthropogenic Climate change (BRACE): a synthesis. <i>Climatic Change</i> , 2018, 146, 287-301. | 1.7 | 27 |
| 58 | Low-Cloud Feedback in CAM5-CLUBB: Physical Mechanisms and Parameter Sensitivity Analysis. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2844-2864. | 1.3 | 15 |
| 59 | Comment on "Surface Air Relative Humidities Spuriously Exceeding 100% in CMIP5 Model Output and Their Impact on Future Projections" by K. Ruosteenoja et al. (2017). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8724-8727. | 1.2 | 2 |
| 60 | Volcanic Radiative Forcing From 1979 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12491-12508. | 1.2 | 87 |
| 61 | Regional Climate Simulations With the Community Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1245-1265. | 1.3 | 41 |
| 62 | The path to CAM6: coupled simulations with CAM5.4 and CAM5.5. <i>Geoscientific Model Development</i> , 2018, 11, 235-255. | 1.3 | 66 |
| 63 | An introduction to the special issue on the Benefits of Reduced Anthropogenic Climate change (BRACE). <i>Climatic Change</i> , 2018, 146, 277-285. | 1.7 | 4 |
| 64 | NCAR Release of CAM5-SE in CESM2.0: A Reformulation of the Spectral Element Dynamical Core in Dry-Mass Vertical Coordinates With Comprehensive Treatment of Condensates and Energy. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1537-1570. | 1.3 | 91 |
| 65 | Improvements in Global Climate Model Microphysics Using a Consistent Representation of Ice Particle Properties. <i>Journal of Climate</i> , 2017, 30, 609-629. | 1.2 | 26 |
| 66 | Constraining the instantaneous aerosol influence on cloud albedo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4899-4904. | 3.3 | 77 |
| 67 | Strong constraints on aerosol-cloud interactions from volcanic eruptions. <i>Nature</i> , 2017, 546, 485-491. | 13.7 | 191 |
| 68 | Subnational violent conflict forecasts for sub-Saharan Africa, 2015-65, using climate-sensitive models. <i>Journal of Peace Research</i> , 2017, 54, 175-192. | 1.5 | 82 |
| 69 | Dependence of the Ice Water Content and Snowfall Rate on Temperature, Globally: Comparison of in Situ Observations, Satellite Active Remote Sensing Retrievals, and Global Climate Model Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 189-215. | 0.6 | 25 |
| 70 | Why and How to Write a High-Impact Review Paper: Lessons From Eight Years of Editorial Board Service to <i>Reviews of Geophysics</i> . <i>Reviews of Geophysics</i> , 2017, 55, 860-863. | 9.0 | 1 |
| 71 | An intercomparative study of the effects of aircraft emissions on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8325-8344. | 1.2 | 21 |
| 72 | Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,061. | 1.2 | 128 |

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| 73 | The Art and Science of Climate Model Tuning. Bulletin of the American Meteorological Society, 2017, 98, 589-602. | 1.7 | 343 |
| 74 | A cloudy planetary boundary layer oscillation arising from the coupling of turbulence with precipitation in climate simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 1973-1993. | 1.3 | 12 |
| 75 | A single ice approach using varying ice particle properties in global climate model microphysics. Journal of Advances in Modeling Earth Systems, 2017, 9, 2138-2157. | 1.3 | 21 |
| 76 | Direct comparisons of ice cloud macro- and microphysical properties simulated by the Community Atmosphere Model version 5 with HIPPO aircraft observations. Atmospheric Chemistry and Physics, 2017, 17, 4731-4749. | 1.9 | 13 |
| 77 | Simulated responses of terrestrial aridity to black carbon and sulfate aerosols. Journal of Geophysical Research D: Atmospheres, 2016, 121, 785-794. | 1.2 | 19 |
| 78 | Changes in terrestrial aridity for the period 850â€“2080 from the Community Earth System Model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2857-2873. | 1.2 | 35 |
| 79 | Processes Responsible for Cloud Feedback. Current Climate Change Reports, 2016, 2, 179-189. | 2.8 | 81 |
| 80 | Climate Feedback Variance and the Interaction of Aerosol Forcing and Feedbacks. Journal of Climate, 2016, 29, 6659-6675. | 1.2 | 26 |
| 81 | On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. Atmospheric Chemistry and Physics, 2016, 16, 2765-2783. | 1.9 | 67 |
| 82 | Simulated 2050 aviation radiative forcing from contrails and aerosols. Atmospheric Chemistry and Physics, 2016, 16, 7317-7333. | 1.9 | 17 |
| 83 | Assessment of marine boundary layer cloud simulations in the CAM with CLUBB and updated microphysics scheme based on ARM observations from the Azores. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8472-8492. | 1.2 | 20 |
| 84 | Impact of Aviation on Climate: FAAâ€™s Aviation Climate Change Research Initiative (ACCRI) Phase II. Bulletin of the American Meteorological Society, 2016, 97, 561-583. | 1.7 | 93 |
| 85 | Global volcanic aerosol properties derived from emissions, 1990â€“2014, using CESM1(WACCM). Journal of Geophysical Research D: Atmospheres, 2016, 121, 2332-2348. | 1.2 | 175 |
| 86 | Challenges in constraining anthropogenic aerosol effects on cloud radiative forcing using present-day spatiotemporal variability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5804-5811. | 3.3 | 120 |
| 87 | Simulated climatology and evolution of aridity in the 21st century. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5795-5815. | 1.2 | 47 |
| 88 | Parametric behaviors of <sc>CLUBB</sc> in simulations of low clouds in the <sc>C</sc>ommunity <sc>A</sc>tmosphere <sc>M</sc>odel (<sc>CAM</sc>). Journal of Advances in Modeling Earth Systems, 2015, 7, 1005-1025. | 1.3 | 32 |
| 89 | Putting the clouds back in aerosolâ€“cloud interactions. Atmospheric Chemistry and Physics, 2015, 15, 12397-12411. | 1.9 | 57 |
| 90 | Structural diagnostics of the tropopause inversion layer and its evolution. Journal of Geophysical Research D: Atmospheres, 2015, 120, 46-62. | 1.2 | 25 |

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| 91 | Impact of aerosol radiative effects on 2000â€“2010 surface temperatures. <i>Climate Dynamics</i> , 2015, 45, 2165-2179. | 1.7 | 24 |
| 92 | Icelandic volcanic emissions and climate. <i>Nature Geoscience</i> , 2015, 8, 243-243. | 5.4 | 24 |
| 93 | Advanced Two-Moment Bulk Microphysics for Global Models. Part II: Global Model Solutions and Aerosolâ€“Cloud Interactions*. <i>Journal of Climate</i> , 2015, 28, 1288-1307. | 1.2 | 177 |
| 94 | Evaluating the Diurnal Cycle of Upper-Tropospheric Ice Clouds in Climate Models Using SMILES Observations. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1022-1044. | 0.6 | 35 |
| 95 | Advanced Two-Moment Bulk Microphysics for Global Models. Part I: Off-Line Tests and Comparison with Other Schemes. <i>Journal of Climate</i> , 2015, 28, 1268-1287. | 1.2 | 267 |
| 96 | Arctic Radiative Fluxes: Present-Day Biases and Future Projections in CMIP5 Models. <i>Journal of Climate</i> , 2015, 28, 6019-6038. | 1.2 | 42 |
| 97 | A unified parameterization of clouds and turbulence using CLUBB and subcolumns in the Community Atmosphere Model. <i>Geoscientific Model Development</i> , 2015, 8, 3801-3821. | 1.3 | 39 |
| 98 | Development of two-moment cloud microphysics for liquid and ice within the NASA Goddard Earth Observing System Model (GEOS-5). <i>Geoscientific Model Development</i> , 2014, 7, 1733-1766. | 1.3 | 78 |
| 99 | Contributions of Clouds, Surface Albedos, and Mixed-Phase Ice Nucleation Schemes to Arctic Radiation Biases in CAM5. <i>Journal of Climate</i> , 2014, 27, 5174-5197. | 1.2 | 50 |
| 100 | Impact of Antarctic mixed-phase clouds on climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18156-18161. | 3.3 | 54 |
| 101 | The effect of horizontal resolution on simulation quality in the <scp>C</scp>ommunity <scp>A</scp>tmospheric <scp>M</scp>odel, <scp>CAM</scp>5.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 980-997. | 1.3 | 233 |
| 102 | Exploratory High-Resolution Climate Simulations using the Community Atmosphere Model (CAM). <i>Journal of Climate</i> , 2014, 27, 3073-3099. | 1.2 | 184 |
| 103 | Processes controlling Southern Ocean shortwave climate feedbacks in CESM. <i>Geophysical Research Letters</i> , 2014, 41, 616-622. | 1.5 | 58 |
| 104 | Comparison of ice cloud properties simulated by the Community Atmosphere Model (CAM5) with in-situ observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10103-10118. | 1.9 | 29 |
| 105 | Diagnosing the average spatio-temporal impact of convective systems â€“ Part 2: A model intercomparison using satellite data. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8701-8721. | 1.9 | 3 |
| 106 | Corrigendum to "Microphysical Process Rates and Global Aerosol-Cloud Interactions" published in <i>Atmos. Chem. Phys.</i> , 13, 9855â€“9867, 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9099-9103. | 1.9 | 4 |
| 107 | Climate model genealogy: Generation CMIP5 and how we got there. <i>Geophysical Research Letters</i> , 2013, 40, 1194-1199. | 1.5 | 670 |
| 108 | Microphysical implications of cloudâ€“precipitation covariance derived from satellite remote sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6521-6533. | 1.2 | 74 |

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| 109 | Climate Change Projections in CESM1(CAM5) Compared to CCSM4. Journal of Climate, 2013, 26, 6287-6308. | 1.2 | 243 |
| 110 | Higher-Order Turbulence Closure and Its Impact on Climate Simulations in the Community Atmosphere Model. Journal of Climate, 2013, 26, 9655-9676. | 1.2 | 165 |
| 111 | Spatial Decomposition of Climate Feedbacks in the Community Earth System Model. Journal of Climate, 2013, 26, 3544-3561. | 1.2 | 17 |
| 112 | Simulated radiative forcing from contrails and contrail cirrus. Atmospheric Chemistry and Physics, 2013, 13, 12525-12536. | 1.9 | 42 |
| 113 | Microphysical process rates and global aerosol-cloud interactions. Atmospheric Chemistry and Physics, 2013, 13, 9855-9867. | 1.9 | 66 |
| 114 | The climate impact of aviation aerosols. Geophysical Research Letters, 2013, 40, 2785-2789. | 1.5 | 88 |
| 115 | Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using retrain-satellite observations and reanalysis data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2762-2780. | 1.2 | 90 |
| 116 | Coordinating Observational Campaigns to Study the Tropical Tropopause Layer. Eos, 2013, 94, 91-91. | 0.1 | 0 |
| 117 | Improved cirrus simulations in a general circulation model using CARMA sectional microphysics. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,679. | 1.2 | 20 |
| 118 | Exposing Global Cloud Biases in the Community Atmosphere Model (CAM) Using Satellite Observations and Their Corresponding Instrument Simulators. Journal of Climate, 2012, 25, 5190-5207. | 1.2 | 251 |
| 119 | The Influence of Local Feedbacks and Northward Heat Transport on the Equilibrium Arctic Climate Response to Increased Greenhouse Gas Forcing. Journal of Climate, 2012, 25, 5433-5450. | 1.2 | 133 |
| 120 | The Evolution of Climate Sensitivity and Climate Feedbacks in the Community Atmosphere Model. Journal of Climate, 2012, 25, 1453-1469. | 1.2 | 140 |
| 121 | Climate variability and conflict risk in East Africa, 1990-2009. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18344-18349. | 3.3 | 237 |
| 122 | A community diagnostic tool for chemistry climate model validation. Geoscientific Model Development, 2012, 5, 1061-1073. | 1.3 | 12 |
| 123 | Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739. | 1.3 | 807 |
| 124 | Unified parameterization of the planetary boundary layer and shallow convection with a higher-order turbulence closure in the Community Atmosphere Model: single-column experiments. Geoscientific Model Development, 2012, 5, 1407-1423. | 1.3 | 61 |
| 125 | Sensitivity studies of dust ice nuclei effect on cirrus clouds with the Community Atmosphere Model CAM5. Atmospheric Chemistry and Physics, 2012, 12, 12061-12079. | 1.9 | 83 |
| 126 | Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA retrain-satellite observations. Journal of Geophysical Research, 2012, 117, . | 3.3 | 316 |

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| 127 | Wave activity in the tropical tropopause layer in seven reanalysis and four chemistry climate model data sets. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 20 |
| 128 | Global contrail coverage simulated by CAM5 with the inventory of 2006 global aircraft emissions. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, . | 1.3 | 14 |
| 129 | Climate impacts of ice nucleation. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 118 |
| 130 | Climate change projections and stratosphere-troposphere interaction. <i>Climate Dynamics</i> , 2012, 38, 2089-2097. | 1.7 | 137 |
| 131 | Record of tropical interannual variability of temperature and water vapor from a combined AIRS-MLS data set. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 39 |
| 132 | THE EXTRATROPICAL UPPER TROPOSPHERE AND LOWER STRATOSPHERE. <i>Reviews of Geophysics</i> , 2011, 49, . | 9.0 | 284 |
| 133 | A modeling study of the effects of aerosols on clouds and precipitation over East Asia. <i>Theoretical and Applied Climatology</i> , 2011, 106, 343-354. | 1.3 | 61 |
| 134 | The Boundary Layer Response to Recent Arctic Sea Ice Loss and Implications for High-Latitude Climate Feedbacks. <i>Journal of Climate</i> , 2011, 24, 428-447. | 1.2 | 60 |
| 135 | Temperature and Water Vapor Variance Scaling in Global Models: Comparisons to Satellite and Aircraft Data. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2156-2168. | 0.6 | 57 |
| 136 | The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9473-9486. | 1.9 | 25 |
| 137 | Two-moment bulk stratiform cloud microphysics in the GFDL AM3 GCM: description, evaluation, and sensitivity tests. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8037-8064. | 1.9 | 87 |
| 138 | Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9451-9472. | 1.9 | 215 |
| 139 | Chemistry-Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010, 23, 5349-5374. | 1.2 | 280 |
| 140 | Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 171 |
| 141 | Review of the formulation of present-generation stratospheric chemistry-climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 150 |
| 142 | Stratosphere-troposphere coupling and annular mode variability in chemistry-climate models. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 107 |
| 143 | Global simulations of ice nucleation and ice supersaturation with an improved cloud scheme in the Community Atmosphere Model. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 361 |
| 144 | Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 62 |

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| 145 | Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 67 |
| 146 | The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. <i>Journal of Climate</i> , 2009, 22, 429-445. | 1.2 | 68 |
| 147 | Cloudy and clear-sky relative humidity in the upper troposphere observed by the A-train. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 36 |
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