

Jason Cole

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,821
citations

159585

30
h-index

106344

65
g-index

92
all docs

92
docs citations

92
times ranked

5456
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Effects of forcing differences and initial conditions on inter-model agreement in the VolMIP volc-pinatubo-full experiment. <i>Geoscientific Model Development</i> , 2022, 15, 2265-2292. | 3.6 | 22 |
| 2 | Comparing different generations of idealized solar geoengineering simulations in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4231-4247. | 4.9 | 22 |
| 3 | The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091883. | 4.0 | 43 |
| 4 | Significant impact of forcing uncertainty in a large ensemble of climate model simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 46 |
| 5 | Cloud Feedbacks from CanESM2 to CanESM5.0 and their influence on climate sensitivity. <i>Geoscientific Model Development</i> , 2021, 14, 5355-5372. | 3.6 | 10 |
| 6 | An Observational Constraint on Aviation-Induced Cirrus From the COVID-19-Induced Flight Disruption. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095882. | 4.0 | 8 |
| 7 | Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8381-8404. | 4.9 | 18 |
| 8 | Simulation of convective moistening of the extratropical lower stratosphere using a numerical weather prediction model. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2143-2159. | 4.9 | 14 |
| 9 | Modelling the relationship between liquid water content and cloud droplet number concentration observed in low clouds in the summer Arctic and its radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 29-43. | 4.9 | 5 |
| 10 | 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. | 4.0 | 39 |
| 11 | Bias in CMIP6 models as compared to observed regional dimming and brightening. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 16023-16040. | 4.9 | 25 |
| 12 | Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9591-9618. | 4.9 | 149 |
| 13 | Quantifying CanESM5 and EAMv1 sensitivities to Mt. Pinatubo volcanic forcing for the CMIP6 historical experiment. <i>Geoscientific Model Development</i> , 2020, 13, 4831-4843. | 3.6 | 9 |
| 14 | Accounting for Several Infrared Radiation Processes in Climate Models. <i>Journal of Climate</i> , 2019, 32, 4601-4620. | 3.2 | 5 |
| 15 | Convective response to large-scale forcing in the tropical western Pacific simulated by spCAM5 and CanAM4.3. <i>Geoscientific Model Development</i> , 2019, 12, 2107-2117. | 3.6 | 1 |
| 16 | The Canadian Earth System Model version 5 (CanESM5.0.3). <i>Geoscientific Model Development</i> , 2019, 12, 4823-4873. | 3.6 | 581 |
| 17 | CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3612-3644. | 3.3 | 62 |
| 18 | Response to marine cloud brightening in a multi-model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 621-634. | 4.9 | 37 |

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|----|---|-----|-----------|
| 19 | Introduction to CAUSES: Description of Weather and Climate Models and Their Near-Surface Temperature Errors in 5-Day Hindcasts Near the Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2655-2683. | 3.3 | 53 |
| 20 | Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10133-10156. | 4.9 | 25 |
| 21 | How Well Are Clouds Simulated over Greenland in Climate Models? Consequences for the Surface Cloud Radiative Effect over the Ice Sheet. <i>Journal of Climate</i> , 2018, 31, 9293-9312. | 3.2 | 12 |
| 22 | The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13097-13113. | 4.9 | 19 |
| 23 | Evaluation of a high-resolution numerical weather prediction model's simulated clouds using observations from CloudSat, GOES-13 and <i>in situ</i> aircraft. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1681-1694. | 2.7 | 11 |
| 24 | CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2888-2909. | 3.3 | 60 |
| 25 | Shortwave radiative forcing, rapid adjustment, and feedback to the surface by sulfate geoengineering: analysis of the Geoengineering Model Intercomparison Project G4 scenario. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3339-3356. | 4.9 | 21 |
| 26 | The impact of equilibrating hemispheric albedos on tropical performance in the HadGEM2-ES coupled climate model. <i>Geophysical Research Letters</i> , 2016, 43, 395-403. | 4.0 | 54 |
| 27 | A parametrization of 3-km subgrid-scale clouds for conventional GCMs: Assessment using Train satellite data and solar radiative transfer characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 566-597. | 3.8 | 11 |
| 28 | Investigating the spread in surface albedo for snow-covered forests in CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1104-1119. | 3.3 | 43 |
| 29 | A comparison of two representations of subgrid-scale cloud structure in a global model: radiative effects as a function of cloud characteristics. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2551-2561. | 2.7 | 2 |
| 30 | A quantitative assessment of precipitation associated with the ITCZ in the CMIP5 GCM simulations. <i>Climate Dynamics</i> , 2016, 47, 1863-1880. | 3.8 | 33 |
| 31 | Robustness, uncertainties, and emergent constraints in the radiative responses of stratocumulus cloud regimes to future warming. <i>Climate Dynamics</i> , 2016, 46, 3025-3039. | 3.8 | 31 |
| 32 | Assessing the quality of active-passive satellite retrievals using broadband radiances. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1294-1305. | 2.7 | 7 |
| 33 | The impact of parametrized convection on cloud feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140414. | 3.4 | 63 |
| 34 | Evaluation of CMIP5 upper troposphere and lower stratosphere geopotential height with GPS radio occultation observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1678-1689. | 3.3 | 10 |
| 35 | Vertical structure and physical processes of the Madden-Julian Oscillation: Biases and uncertainties at short range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4749-4763. | 3.3 | 26 |
| 36 | Simulation of black carbon in snow and its climate impact in the Canadian Global Climate Model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10887-10904. | 4.9 | 21 |

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|----|---|------|-----------|
| 37 | Application of a Monte Carlo solar radiative transfer model in the McICA framework. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3130-3139. | 2.7 | 4 |
| 38 | Radiative flux and forcing parameterization error in aerosol-free clear skies. Geophysical Research Letters, 2015, 42, 5485-5492. | 4.0 | 57 |
| 39 | The EarthCARE Satellite: The Next Step Forward in Global Measurements of Clouds, Aerosols, Precipitation, and Radiation. Bulletin of the American Meteorological Society, 2015, 96, 1311-1332. | 3.3 | 443 |
| 40 | Evaluating the Diurnal Cycle of Upper-Tropospheric Ice Clouds in Climate Models Using SMILES Observations. Journals of the Atmospheric Sciences, 2015, 72, 1022-1044. | 1.7 | 35 |
| 41 | Estimation of Errors in Two-Stream Approximations of the Solar Radiative Transfer Equation for Cloudy-Sky Conditions. Journals of the Atmospheric Sciences, 2015, 72, 4053-4074. | 1.7 | 25 |
| 42 | The diurnal cycle of marine cloud feedback in climate models. Climate Dynamics, 2015, 44, 1419-1436. | 3.8 | 18 |
| 43 | Key factors governing uncertainty in the response to sunshade geoengineering from a comparison of the GeoMIP ensemble and a perturbed parameter ensemble. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7946-7962. | 3.3 | 11 |
| 44 | Decadal Covariability of the Northern Wintertime Land Surface Temperature and Atmospheric Circulation. Journal of Climate, 2014, 27, 633-651. | 3.2 | 5 |
| 45 | Solar radiation management impacts on agriculture in China: A case study in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2014, 119, 8695-8711. | 3.3 | 53 |
| 46 | A multi-model assessment of regional climate disparities caused by solar geoengineering. Environmental Research Letters, 2014, 9, 074013. | 5.2 | 101 |
| 47 | Volcanic contribution to decadal changes in tropospheric temperature. Nature Geoscience, 2014, 7, 185-189. | 12.9 | 364 |
| 48 | A Global Climatology of Outgoing Longwave Spectral Cloud Radiative Effect and Associated Effective Cloud Properties. Journal of Climate, 2014, 27, 7475-7492. | 3.2 | 17 |
| 49 | A multimodel examination of climate extremes in an idealized geoengineering experiment. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3900-3923. | 3.3 | 75 |
| 50 | Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO ₂ . Journal of Geophysical Research D: Atmospheres, 2014, 119, 5226-5239. | 3.3 | 19 |
| 51 | Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 8320-8332. | 3.3 | 226 |
| 52 | The Canadian Fourth Generation Atmospheric Global Climate Model (CanAM4). Part I: Representation of Physical Processes. Atmosphere - Ocean, 2013, 51, 104-125. | 1.6 | 304 |
| 53 | Longwave Band-By-Band Cloud Radiative Effect and Its Application in GCM Evaluation. Journal of Climate, 2013, 26, 450-467. | 3.2 | 14 |
| 54 | The impact of abrupt suspension of solar radiation management (termination effect) in experiment G2 of the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 9743-9752. | 3.3 | 129 |

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|----|--|-----|-----------|
| 55 | The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036. | 3.3 | 202 |
| 56 | Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using Train satellite observations and reanalysis data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2762-2780. | 3.3 | 90 |
| 57 | An energetic perspective on hydrological cycle changes in the Geoengineering Model Intercomparison Project. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,087. | 3.3 | 63 |
| 58 | Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA Train satellite observations. Journal of Geophysical Research, 2012, 117, . | 3.3 | 316 |
| 59 | The Continual Intercomparison of Radiation Codes: Results from Phase I. Journal of Geophysical Research, 2012, 117, . | 3.3 | 112 |
| 60 | Tropical and Subtropical Cloud Transitions in Weather and Climate Prediction Models: The GCSS/WGNE Pacific Cross-Section Intercomparison (GPCI). Journal of Climate, 2011, 24, 5223-5256. | 3.2 | 134 |
| 61 | Assessing Simulated Clouds and Radiative Fluxes Using Properties of Clouds Whose Tops are Exposed to Space. Journal of Climate, 2011, 24, 2715-2727. | 3.2 | 24 |
| 62 | Constraints on interactions between aerosols and clouds on a global scale from a combination of MODIS-CERES satellite data and climate simulations. Atmospheric Chemistry and Physics, 2010, 10, 9851-9861. | 4.9 | 18 |
| 63 | Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. II: Multilayer cloud. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1003-1019. | 2.7 | 84 |
| 64 | Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. I: single-layer cloud. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 979-1002. | 2.7 | 224 |
| 65 | Full-Spectrum Correlated-k Distribution for Shortwave Atmospheric Radiative Transfer. Journals of the Atmospheric Sciences, 2004, 61, 2588-2601. | 1.7 | 18 |