

Jason Cole

List of Publications by Year in Descending Order

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

71
papers

3,502
citations

26
h-index

58
g-index

92
ext. papers

4,100
ext. citations

5.4
avg. IF

4.49
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 71 | 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 | 6.3 | 2 |
| 70 | 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 | 6.8 | 7 |
| 69 | The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091883 | 4.9 | 19 |
| 68 | 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, | 11.5 | 9 |
| 67 | Cloud Feedbacks from CanESM2 to CanESM5.0 and their influence on climate sensitivity. <i>Geoscientific Model Development</i> , 2021 , 14, 5355-5372 | 6.3 | 2 |
| 66 | An Observational Constraint on Aviation-Induced Cirrus From the COVID-19-Induced Flight Disruption.. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095882 | 4.9 | 1 |
| 65 | Effective radiative forcing and adjustments in CMIP6 models 2020 , | | 3 |
| 64 | 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 | 6.8 | 8 |
| 63 | 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 | 6.8 | 2 |
| 62 | Quantifying CanESM5 and EAMv1 sensitivities to Mt. Pinatubo volcanic forcing for the CMIP6 historical experiment. <i>Geoscientific Model Development</i> , 2020 , 13, 4831-4843 | 6.3 | 2 |
| 61 | Bias in CMIP6 models as compared to observed regional dimming and brightening. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 16023-16040 | 6.8 | 17 |
| 60 | Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9591-9618 | 6.8 | 66 |
| 59 | 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 | 4.9 | 14 |
| 58 | 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 | 6.8 | 6 |
| 57 | The Canadian Earth System Model version 5 (CanESM5.0.3) 2019 , | | 12 |
| 56 | 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 | 6.3 | 1 |
| 55 | Accounting for Several Infrared Radiation Processes in Climate Models. <i>Journal of Climate</i> , 2019 , 32, 4601-4620 | 4.4 | 5 |

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| 54 | The Canadian Earth System Model version 5 (CanESM5.0.3). <i>Geoscientific Model Development</i> , 2019 , 12, 4823-4873 | 6.3 | 250 |
| 53 | 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 | 4.4 | 40 |
| 52 | Response to marine cloud brightening in a multi-model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 621-634 | 6.8 | 22 |
| 51 | Evaluation of a high-resolution numerical weather prediction model's simulated clouds using observations from CloudSat, GOES-13 and in situ aircraft. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 1681-1694 | 6.4 | 7 |
| 50 | 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 | 4.4 | 43 |
| 49 | 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 | 4.4 | 37 |
| 48 | Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10133-10156 | 6.8 | 10 |
| 47 | 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 | 4.4 | 7 |
| 46 | The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13097-13113 | 6.8 | 11 |
| 45 | Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering 2018 , | | 1 |
| 44 | 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 | 6.8 | 13 |
| 43 | Shortwave radiative forcing and feedback to the surface by sulphate geoengineering: Analysis of the Geoengineering Model Intercomparison Project G4 scenario 2016 , | | 1 |
| 42 | A parametrization of 3-D subgrid-scale clouds for conventional GCMs: Assessment using A-Train satellite data and solar radiative transfer characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 566-597 | 7.1 | 7 |
| 41 | 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 | 4.4 | 29 |
| 40 | 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 | 6.4 | 2 |
| 39 | A quantitative assessment of precipitation associated with the ITCZ in the CMIP5 GCM simulations. <i>Climate Dynamics</i> , 2016 , 47, 1863-1880 | 4.2 | 26 |
| 38 | Robustness, uncertainties, and emergent constraints in the radiative responses of stratocumulus cloud regimes to future warming. <i>Climate Dynamics</i> , 2016 , 46, 3025-3039 | 4.2 | 26 |
| 37 | 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 | 4.9 | 40 |

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| 36 | 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 | 2.1 | 27 |
| 35 | Estimation of Errors in Two-Stream Approximations of the Solar Radiative Transfer Equation for Cloudy-Sky Conditions. <i>Journals of the Atmospheric Sciences</i> , 2015 , 72, 4053-4074 | 2.1 | 22 |
| 34 | The diurnal cycle of marine cloud feedback in climate models. <i>Climate Dynamics</i> , 2015 , 44, 1419-1436 | 4.2 | 17 |
| 33 | Assessing the quality of active-passive satellite retrievals using broad-band radiances. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1294-1305 | 6.4 | 4 |
| 32 | The impact of parametrized convection on cloud feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373, | 3 | 54 |
| 31 | 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 | 4.4 | 9 |
| 30 | 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 | 4.4 | 24 |
| 29 | 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 | 6.8 | 15 |
| 28 | Application of a Monte Carlo solar radiative transfer model in the McICA framework. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 3130-3139 | 6.4 | 4 |
| 27 | Radiative flux and forcing parameterization error in aerosol-free clear skies. <i>Geophysical Research Letters</i> , 2015 , 42, 5485-5492 | 4.9 | 46 |
| 26 | The EarthCARE Satellite: The Next Step Forward in Global Measurements of Clouds, Aerosols, Precipitation, and Radiation. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1311-1332 | 6.1 | 321 |
| 25 | A Global Climatology of Outgoing Longwave Spectral Cloud Radiative Effect and Associated Effective Cloud Properties. <i>Journal of Climate</i> , 2014 , 27, 7475-7492 | 4.4 | 14 |
| 24 | A multimodel examination of climate extremes in an idealized geoengineering experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3900-3923 | 4.4 | 60 |
| 23 | Key factors governing uncertainty in the response to sunshade geoengineering from a comparison of the GeoMIP ensemble and a perturbed parameter ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7946-7962 | 4.4 | 9 |
| 22 | Decadal Covariability of the Northern Wintertime Land Surface Temperature and Atmospheric Circulation. <i>Journal of Climate</i> , 2014 , 27, 633-651 | 4.4 | 5 |
| 21 | Solar radiation management impacts on agriculture in China: A case study in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8695-8711 | 4.4 | 42 |
| 20 | A multi-model assessment of regional climate disparities caused by solar geoengineering. <i>Environmental Research Letters</i> , 2014 , 9, 074013 | 6.2 | 77 |
| 19 | Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014 , 7, 185-189 | 6.2 | 304 |

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| 18 | Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5226-5239 | 4.4 | 18 |
| 17 | Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8320-8332 | 4.4 | 195 |
| 16 | The Canadian Fourth Generation Atmospheric Global Climate Model (CanAM4). Part I: Representation of Physical Processes. <i>Atmosphere - Ocean</i> , 2013 , 51, 104-125 | 1.5 | 260 |
| 15 | Longwave Band-By-Band Cloud Radiative Effect and Its Application in GCM Evaluation. <i>Journal of Climate</i> , 2013 , 26, 450-467 | 4.4 | 11 |
| 14 | The impact of abrupt suspension of solar radiation management (termination effect) in experiment G2 of the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9743-9752 | 4.4 | 113 |
| 13 | The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,036-11,058 | 4.4 | 161 |
| 12 | 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 |
| 11 | An energetic perspective on hydrological cycle changes in the Geoengineering Model Intercomparison Project. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,087-13,102 | 4.4 | 53 |
| 10 | 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 |
| 9 | The Continual Intercomparison of Radiation Codes: Results from Phase I. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 96 |
| 8 | Tropical and Subtropical Cloud Transitions in Weather and Climate Prediction Models: The GCSS/WGNE Pacific Cross-Section Intercomparison (GPCI). <i>Journal of Climate</i> , 2011 , 24, 5223-5256 | 4.4 | 112 |
| 7 | Assessing Simulated Clouds and Radiative Fluxes Using Properties of Clouds Whose Tops are Exposed to Space. <i>Journal of Climate</i> , 2011 , 24, 2715-2727 | 4.4 | 22 |
| 6 | Constraints on interactions between aerosols and clouds on a global scale from a combination of MODIS-CERES satellite data and climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9851-9861 | 6.8 | 15 |
| 5 | Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. II: Multilayer cloud. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009 , 135, 1003-1019 | 6.4 | 69 |
| 4 | Intercomparison of model simulations of mixed-phase clouds observed during the ARM Mixed-Phase Arctic Cloud Experiment. I: single-layer cloud. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009 , 135, 979-1002 | 6.4 | 192 |
| 3 | Full-Spectrum Correlated-k Distribution for Shortwave Atmospheric Radiative Transfer. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 2588-2601 | 2.1 | 16 |
| 2 | Response to marine cloud brightening in a multi-model ensemble | | 2 |
| 1 | Simulation of black carbon in snow and its climate impact in the Canadian Global Climate Model | | 1 |

