

Jason Cole

List of Publications by Citations

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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	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
70	Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014 , 7, 185-189	1.89	304
69	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
68	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
67	The Canadian Earth System Model version 5 (CanESM5.0.3). <i>Geoscientific Model Development</i> , 2019 , 12, 4823-4873	6.3	250
66	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
65	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
64	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
63	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
62	Tropical and Subtropical Cloud Transitions in Weather and Climate Prediction Models: The GCCS/WGNE Pacific Cross-Section Intercomparison (GPCI). <i>Journal of Climate</i> , 2011 , 24, 5223-5256	4.4	112
61	The Continual Intercomparison of Radiation Codes: Results from Phase I. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		96
60	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
59	A multi-model assessment of regional climate disparities caused by solar geoengineering. <i>Environmental Research Letters</i> , 2014 , 9, 074013	6.2	77
58	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
57	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9591-9618	6.8	66
56	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
55	The impact of parametrized convection on cloud feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	54

54	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
53	Radiative flux and forcing parameterization error in aerosol-free clear skies. <i>Geophysical Research Letters</i> , 2015 , 42, 5485-5492	4.9	46
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	Response to marine cloud brightening in a multi-model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 621-634	6.8	22
40	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
39	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
38	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
37	The diurnal cycle of marine cloud feedback in climate models. <i>Climate Dynamics</i> , 2015 , 44, 1419-1436	4.2	17

36	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
35	Full-Spectrum Correlated-k Distribution for Shortwave Atmospheric Radiative Transfer. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 2588-2601	2.1	16
34	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
33	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
32	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
31	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
30	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
29	The Canadian Earth System Model version 5 (CanESM5.0.3) 2019 ,		12
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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

18	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
17	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
16	Accounting for Several Infrared Radiation Processes in Climate Models. <i>Journal of Climate</i> , 2019 , 32, 4601-4620	4.4	5
15	Decadal Covariability of the Northern Wintertime Land Surface Temperature and Atmospheric Circulation. <i>Journal of Climate</i> , 2014 , 27, 633-651	4.4	5
14	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
13	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
12	Effective radiative forcing and adjustments in CMIP6 models 2020 ,		3
11	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
10	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
9	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
8	Response to marine cloud brightening in a multi-model ensemble		2
7	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
6	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
5	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
4	Shortwave radiative forcing and feedback to the surface by sulphate geoengineering: Analysis of the Geoengineering Model Intercomparison Project G4 scenario 2016 ,		1
3	Simulation of black carbon in snow and its climate impact in the Canadian Global Climate Model		1
2	Extreme temperature and precipitation response to solar dimming and stratospheric aerosol geoengineering 2018 ,		1
1	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

