Andy Jones

List of Publications by Year
in descending order

54 papers	6,639 citations	109137 35 h-index	168136 53 g-index
82 all docs	82 docs citations	82 times ranked	6337 citing authors

#	Article	IF	Citations
1	The HadGEM2 family of Met Office Unified Model climate configurations. Geoscientific Model Development, 2011, 4, 723-757.	1.3	765
2	UKESM1: Description and Evaluation of the U.K. Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4513-4558.	1.3	448
3	The New Hadley Centre Climate Model (HadGEM1): Evaluation of Coupled Simulations. Journal of Climate, 2006, 19, 1327-1353.	1.2	424
4	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. Geoscientific Model Development, 2019, 12, 1909-1963.	1.3	372
5	Aerosol forcing in the Climate Model Intercomparison Project (CMIP5) simulations by HadGEM2-ES and the role of ammonium nitrate. Journal of Geophysical Research, 2011, 116, .	3.3	369
6	The Physical Properties of the Atmosphere in the New Hadley Centre Global Environmental Model (HadGEM1). Part I: Model Description and Global Climatology. Journal of Climate, 2006, 19, 1274-1301.	1.2	303
7	Asymmetric forcing from stratospheric aerosols impacts Sahelian rainfall. Nature Climate Change, 2013, 3, 660-665.	8.1	269
8	Precipitation, radiative forcing and global temperature change. Geophysical Research Letters, 2010, 37, .	1.5	259
9	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 8320-8332.	1.2	226
10	Indirect sulphate aerosol forcing in a climate model with an interactive sulphur cycle. Journal of Geophysical Research, 2001, 106, 20293-20310.	3.3	216
11	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	1.2	202
12	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	13.7	191
13	Total aerosol effect: radiative forcing or radiative flux perturbation?. Atmospheric Chemistry and Physics, 2010, 10, 3235-3246.	1.9	184
14	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. Geoscientific Model Development, 2015, 8, 3379-3392.	1.3	140
15	Solar irradiance reduction to counteract radiative forcing from a quadrupling of CO₂: climate responses simulated by four earth system models. Earth System Dynamics, 2012, 3, 63-78.	2.7	132
16	Climate impacts of geoengineering marine stratocumulus clouds. Journal of Geophysical Research, 2009, 114, .	3.3	130
17	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.	1.2	129
18	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model. Journal of Geophysical Research, 2010, 115, .	3.3	128

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19	The response of the climate system to the indirect effects of anthropogenic sulfate aerosol. Climate Dynamics, 2001, 17, 845-856.	1.7	109
20	Improved Aerosol Processes and Effective Radiative Forcing in HadGEM3 and UKESM1. Journal of Advances in Modeling Earth Systems, 2018, 10, 2786-2805.	1.3	106
21	Climate sensitivity to black carbon aerosol from fossil fuel combustion. Journal of Geophysical Research, 2004, 109, .	3.3	103
22	Aerosol forcing, climate response and climate sensitivity in the Hadley Centre climate model. Journal of Geophysical Research, 2007, 112, .	3.3	102
23	Geoengineering by stratospheric SO₂ injection: results from the Met Office HadGEM2 climate model and comparison with the Goddard Institute for Space Studies ModelE. Atmospheric Chemistry and Physics, 2010, 10, 5999-6006.	1.9	89
24	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. Geoscientific Model Development, 2020, 13, 6383-6423.	1.3	83
25	Southern Ocean albedo, inter-hemispheric energy transports and the double ITCZ: global impacts of biases in a coupled model. Climate Dynamics, 2017, 48, 2279-2295.	1.7	81
26	The importance of vertical velocity variability for estimates of the indirect aerosol effects. Atmospheric Chemistry and Physics, 2014, 14, 6369-6393.	1.9	73
27	The impact of volcanic eruptions in the period 2000â€“2013 on global mean temperature trends evaluated in the <scp>HadGEM2â€ES</scp> climate model. Atmospheric Science Letters, 2014, 15, 92-96.	0.8	63
28	A comparison of the climate impacts of geoengineering by stratospheric SO₂ injection and by brightening of marine stratocumulus cloud. Atmospheric Science Letters, 2011, 12, 176-183.	0.8	55
29	The impact of equilibrating hemispheric albedos on tropical performance in the HadGEM2â€ES coupled climate model. Geophysical Research Letters, 2016, 43, 395-403.	1.5	54
30	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.	1.2	53
31	Impacts of hemispheric solar geoengineering on tropical cyclone frequency. Nature Communications, 2017, 8, 1382.	5.8	53
32	Regional Climate Impacts of Stabilizing Global Warming at 1.5 K Using Solar Geoengineering. Earth's Future, 2018, 6, 230-251.	2.4	49
33	Marine cloud brightening â€“ as effective without clouds. Atmospheric Chemistry and Physics, 2017, 17, 13071-13087.	1.9	45
34	Identifying the sources of uncertainty in climate model simulations of solar radiation modification with the G6sulfur and G6solar Geoengineering Model Intercomparison Project (GeoMIP) simulations. Atmospheric Chemistry and Physics, 2021, 21, 10039-10063.	1.9	45
35	Climatic impacts of stratospheric geoengineering with sulfate, black carbon and titania injection. Atmospheric Chemistry and Physics, 2016, 16, 2843-2862.	1.9	41
36	Sea-spray geoengineering in the HadGEM2-ES earth-system model: radiative impact and climate response. Atmospheric Chemistry and Physics, 2012, 12, 10887-10898.	1.9	37

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37	Sea spray geoengineering experiments in the geoengineering model intercomparison project (GeoMIP): Experimental design and preliminary results. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,175.	1.2	37
38	Stratospheric aerosols from the Sarychev volcano eruption in the 2009 Arctic summer. Atmospheric Chemistry and Physics, 2013, 13, 6533-6552.	1.9	37
39	Response to marine cloud brightening in a multi-model ensemble. Atmospheric Chemistry and Physics, 2018, 18, 621-634.	1.9	37
40	Arctic cryosphere response in the Geoengineering Model Intercomparison Project G3 and G4 scenarios. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1308-1321.	1.2	36
41	Exploiting the weekly cycle as observed over Europe to analyse aerosol indirect effects in two climate models. Atmospheric Chemistry and Physics, 2009, 9, 8493-8501.	1.9	34
42	Estimating the climate impact of linear contrails using the UK Met Office climate model. Geophysical Research Letters, 2010, 37, .	1.5	32
43	A comparison of atmospheric dispersion model predictions with observations of SO₂ and sulphate aerosol from volcanic eruptions. Journal of Geophysical Research, 2012, 117, .	3.3	26
44	North Atlantic Oscillation response in GeoMIP experiments G6solar and G6sulfur: why detailed modelling is needed for understanding regional implications of solar radiation management. Atmospheric Chemistry and Physics, 2021, 21, 1287-1304.	1.9	25
45	Comparing different generations of idealized solar geoengineering simulations in the Geoengineering Model Intercomparison Project (GeoMIP). Atmospheric Chemistry and Physics, 2021, 21, 4231-4247.	1.9	22
46	Sensitivity of volcanic aerosol dispersion to meteorological conditions: A Pinatubo case study. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6892-6908.	1.2	21
47	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. Atmospheric Chemistry and Physics, 2018, 18, 13097-13113.	1.9	19
48	Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO₂. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5226-5239.	1.2	19
49	Stratospheric ozone response to sulfate aerosol and solar dimming climate interventions based on the G6 Geoengineering Model Intercomparison Project (GeoMIP) simulations. Atmospheric Chemistry and Physics, 2022, 22, 4557-4579.	1.9	19
50	Global Indirect Radiative Forcing Caused by Aerosols. , 2009, , 451-468.		18
51	The impact of stratospheric aerosol intervention on the North Atlantic and Quasi-Biennial Oscillations in the Geoengineering Model Intercomparison Project (GeoMIP) G6sulfur experiment. Atmospheric Chemistry and Physics, 2022, 22, 2999-3016.	1.9	15
52	Can reducing black carbon and methane below RCP2.6 levels keep global warming below 1.5 Â°C?. Atmospheric Science Letters, 2018, 19, e821.	0.8	12
53	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.	1.2	11
54	Assessing the consequences of including aerosol absorption in potential stratospheric aerosol injection climate intervention strategies. Atmospheric Chemistry and Physics, 2022, 22, 6135-6150.	1.9	3