

Andy Jones

List of Publications by Year in descending order

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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 impact of stratospheric aerosol intervention on the North Atlantic and Quasi-Biennial Oscillations in the Geoengineering Model Intercomparison Project (GeoMIP) G6sulfur experiment. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2999-3016.	1.9	15
2	Stratospheric ozone response to sulfate aerosol and solar dimming climate interventions based on the G6 Geoengineering Model Intercomparison Project (GeoMIP) simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4557-4579.	1.9	19
3	Assessing the consequences of including aerosol absorption in potential stratospheric aerosol injection climate intervention strategies. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 6135-6150.	1.9	3
4	North Atlantic Oscillation response in GeoMIP experiments G6solar and G6sulfur: why detailed modelling is needed for understanding regional implications of solar radiation management. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1287-1304.	1.9	25
5	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.	1.9	22
6	Identifying the sources of uncertainty in climate model simulations of solar radiation modification with the G6sulfur and G6solar Geoengineering Model Intercomparison Project (GeoMIP) simulations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10039-10063.	1.9	45
7	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. <i>Geoscientific Model Development</i> , 2020, 13, 6383-6423.	1.3	83
8	UKESM1: Description and Evaluation of the U.K. Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4513-4558.	1.3	448
9	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. <i>Geoscientific Model Development</i> , 2019, 12, 1909-1963.	1.3	372
10	Response to marine cloud brightening in a multi-model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 621-634.	1.9	37
11	Can reducing black carbon and methane below RCP2.6 levels keep global warming below 1.5 °C?. <i>Atmospheric Science Letters</i> , 2018, 19, e821.	0.8	12
12	Improved Aerosol Processes and Effective Radiative Forcing in HadGEM3 and UKESM1. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2786-2805.	1.3	106
13	Regional Climate Impacts of Stabilizing Global Warming at 1.5 K Using Solar Geoengineering. <i>Earth's Future</i> , 2018, 6, 230-251.	2.4	49
14	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13097-13113.	1.9	19
15	Strong constraints on aerosol–cloud interactions from volcanic eruptions. <i>Nature</i> , 2017, 546, 485-491.	13.7	191
16	Southern Ocean albedo, inter-hemispheric energy transports and the double ITCZ: global impacts of biases in a coupled model. <i>Climate Dynamics</i> , 2017, 48, 2279-2295.	1.7	81
17	Impacts of hemispheric solar geoengineering on tropical cyclone frequency. <i>Nature Communications</i> , 2017, 8, 1382.	5.8	53
18	Marine cloud brightening “as effective without clouds. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13071-13087.	1.9	45

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19	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.	1.5	54
20	Sensitivity of volcanic aerosol dispersion to meteorological conditions: A Pinatubo case study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6892-6908.	1.2	21
21	Climatic impacts of stratospheric geoengineering with sulfate, black carbon and titania injection. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2843-2862.	1.9	41
22	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. <i>Geoscientific Model Development</i> , 2015, 8, 3379-3392.	1.3	140
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.	1.2	11
24	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.	1.2	53
25	The impact of volcanic eruptions in the period 2000-2013 on global mean temperature trends evaluated in the HadGEM2-ES climate model. <i>Atmospheric Science Letters</i> , 2014, 15, 92-96.	0.8	63
26	Arctic cryosphere response in the Geoengineering Model Intercomparison Project G3 and G4 scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 1308-1321.	1.2	36
27	The importance of vertical velocity variability for estimates of the indirect aerosol effects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6369-6393.	1.9	73
28	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.	1.2	19
29	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8320-8332.	1.2	226
30	Asymmetric forcing from stratospheric aerosols impacts Sahelian rainfall. <i>Nature Climate Change</i> , 2013, 3, 660-665.	8.1	269
31	Sea spray geoengineering experiments in the geoengineering model intercomparison project (GeoMIP): Experimental design and preliminary results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,175.	1.2	37
32	Stratospheric aerosols from the Sarychev volcano eruption in the 2009 Arctic summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6533-6552.	1.9	37
33	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.	1.2	129
34	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,036.	1.2	202
35	Solar irradiance reduction to counteract radiative forcing from a quadrupling of CO ₂ : climate responses simulated by four earth system models. <i>Earth System Dynamics</i> , 2012, 3, 63-78.	2.7	132
36	Sea-spray geoengineering in the HadGEM2-ES earth-system model: radiative impact and climate response. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10887-10898.	1.9	37

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37	A comparison of atmospheric dispersion model predictions with observations of SO ₂ and sulphate aerosol from volcanic eruptions. Journal of Geophysical Research, 2012, 117, .	3.3	26
38	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
39	A comparison of the climate impacts of geoengineering by stratospheric SO ₂ injection and by brightening of marine stratocumulus cloud. Atmospheric Science Letters, 2011, 12, 176-183.	0.8	55
40	The HadGEM2 family of Met Office Unified Model climate configurations. Geoscientific Model Development, 2011, 4, 723-757.	1.3	765
41	Total aerosol effect: radiative forcing or radiative flux perturbation?. Atmospheric Chemistry and Physics, 2010, 10, 3235-3246.	1.9	184
42	Geoengineering by stratospheric SO ₂ 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
43	Precipitation, radiative forcing and global temperature change. Geophysical Research Letters, 2010, 37, .	1.5	259
44	Estimating the climate impact of linear contrails using the UK Met Office climate model. Geophysical Research Letters, 2010, 37, .	1.5	32
45	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model. Journal of Geophysical Research, 2010, 115, .	3.3	128
46	Climate impacts of geoengineering marine stratocumulus clouds. Journal of Geophysical Research, 2009, 114, .	3.3	130
47	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
48	Global Indirect Radiative Forcing Caused by Aerosols. , 2009, , 451-468.		18
49	Aerosol forcing, climate response and climate sensitivity in the Hadley Centre climate model. Journal of Geophysical Research, 2007, 112, .	3.3	102
50	The New Hadley Centre Climate Model (HadGEM1): Evaluation of Coupled Simulations. Journal of Climate, 2006, 19, 1327-1353.	1.2	424
51	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
52	Climate sensitivity to black carbon aerosol from fossil fuel combustion. Journal of Geophysical Research, 2004, 109, .	3.3	103
53	Indirect sulphate aerosol forcing in a climate model with an interactive sulphur cycle. Journal of Geophysical Research, 2001, 106, 20293-20310.	3.3	216
54	The response of the climate system to the indirect effects of anthropogenic sulfate aerosol. Climate Dynamics, 2001, 17, 845-856.	1.7	109