

Steven C Hardiman

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

7,284
citations

81900

39
h-index

114465

63
g-index

80
all docs

80
docs citations

80
times ranked

7675
citing authors

#	ARTICLE	IF	CITATIONS
1	The Life Cycle and Variability of Antarctic Weak Polar Vortex Events. <i>Journal of Climate</i> , 2022, 35, 2075-2092.	3.2	4
2	Robust but weak winter atmospheric circulation response to future Arctic sea ice loss. <i>Nature Communications</i> , 2022, 13, 727.	12.8	67
3	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	4.9	24
4	Predictability of European Winters 2017/2018 and 2018/2019: Contrasting influences from the Tropics and stratosphere. <i>Atmospheric Science Letters</i> , 2021, 22, e1009.	1.9	14
5	The Brewer–Dobson circulation in CMIP6. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13571-13591.	4.9	25
6	Predictability of European winter 2019/20: Indian Ocean dipole impacts on the <scp>NAO</scp>. <i>Atmospheric Science Letters</i> , 2020, 21, e1005.	1.9	40
7	Historical Simulations With HadGEM3–GC3.1 for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001995.	3.8	84
8	Implementation of U.K. Earth System Models for CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001946.	3.8	83
9	Subseasonal Vacillations in the Winter Stratosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087766.	4.0	8
10	What chance of a sudden stratospheric warming in the southern hemisphere?. <i>Environmental Research Letters</i> , 2020, 15, 104038.	5.2	18
11	Earth System Model Evaluation Tool (ESMValTool) v2.0 – an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2020, 13, 3383-3438.	3.6	69
12	The Impact of Prescribed Ozone in Climate Projections Run With HadGEM3–GC3.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3443-3453.	3.8	20
13	Skilful Real–Time Seasonal Forecasts of the Dry Northern European Summer 2018. <i>Geophysical Research Letters</i> , 2019, 46, 12368-12376.	4.0	16
14	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.	3.6	372
15	The Impact of Strong El Niño and La Niña Events on the North Atlantic. <i>Geophysical Research Letters</i> , 2019, 46, 2874-2883.	4.0	56
16	Predictability of European winter 2016/2017. <i>Atmospheric Science Letters</i> , 2018, 19, e868.	1.9	10
17	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors. <i>Nature Communications</i> , 2018, 9, 3625.	12.8	109
18	No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11277-11287.	4.9	41

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19	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. <i>Environmental Research Letters</i> , 2018, 13, 054024.	5.2	38
20	The asymmetric response of Yangtze river basin summer rainfall to El Niño/La Niña. <i>Environmental Research Letters</i> , 2018, 13, 024015.	5.2	27
21	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	4.9	128
22	The influence of dynamical variability on the observed Brewer-Dobson circulation trend. <i>Geophysical Research Letters</i> , 2017, 44, 2885-2892.	4.0	16
23	Atmospheric Response to Arctic and Antarctic Sea Ice: The Importance of Ocean-Atmosphere Coupling and the Background State. <i>Journal of Climate</i> , 2017, 30, 4547-4565.	3.2	110
24	Deriving Global OH Abundance and Atmospheric Lifetimes for Long-Lived Gases: A Search for CH ₃ CCl ₃ Alternatives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,914.	3.3	26
25	The Met Office HadGEM3-ES chemistry-climate model: evaluation of stratospheric dynamics and its impact on ozone. <i>Geoscientific Model Development</i> , 2017, 10, 1209-1232.	3.6	34
26	Review of the global models used within phase 1 of the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2017, 10, 639-671.	3.6	277
27	The Met Office Unified Model Global Atmosphere 6.0/6.1 and JULES Global Land 6.0/6.1 configurations. <i>Geoscientific Model Development</i> , 2017, 10, 1487-1520.	3.6	401
28	Stratospheric influence on tropospheric jet streams, storm tracks and surface weather. <i>Nature Geoscience</i> , 2015, 8, 433-440.	12.9	515
29	Defining Sudden Stratospheric Warmings. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1913-1928.	3.3	327
30	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. <i>Journal of Climate</i> , 2015, 28, 6516-6535.	3.2	47
31	Possible impacts of a future grand solar minimum on climate: Stratospheric and global circulation changes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9043-9058.	3.3	41
32	The Met Office Unified Model Global Atmosphere 4.0 and JULES Global Land 4.0 configurations. <i>Geoscientific Model Development</i> , 2014, 7, 361-386.	3.6	154
33	Skillful Seasonal Prediction of the Southern Annular Mode and Antarctic Ozone. <i>Journal of Climate</i> , 2014, 27, 7462-7474.	3.2	53
34	The morphology of the Brewer-Dobson circulation and its response to climate change in CMIP5 simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1958-1965.	2.7	57
35	Northern winter climate change: Assessment of uncertainty in CMIP5 projections related to stratosphere-troposphere coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7979-7998.	3.3	131
36	Multimodel estimates of atmospheric lifetimes of long-lived ozone-depleting substances: Present and future. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2555-2573.	3.3	42

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37	On the lack of stratospheric dynamical variability in low-top versions of the CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2494-2505.	3.3	268
38	Stratospheric Variability in Twentieth-Century CMIP5 Simulations of the Met Office Climate Model: High Top versus Low Top. <i>Journal of Climate</i> , 2013, 26, 1595-1606.	3.2	54
39	Impacts of climate change, ozone recovery, and increasing methane on surface ozone and the tropospheric oxidizing capacity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1028-1041.	3.3	55
40	A lagged response to the 11 year solar cycle in observed winter Atlantic/European weather patterns. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,405.	3.3	154
41	The Effect of Climate Change on the Variability of the Northern Hemisphere Stratospheric Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 2608-2618.	1.7	43
42	The nature of Arctic polar vortices in chemistry-climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1681-1691.	2.7	14
43	The Brewer-Dobson circulation inferred from ERA-Interim. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 878-888.	2.7	98
44	Climate change projections and stratosphere-troposphere interaction. <i>Climate Dynamics</i> , 2012, 38, 2089-2097.	3.8	137
45	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
46	Improved predictability of the troposphere using stratospheric final warmings. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	70
47	The HadGEM2-ES implementation of CMIP5 centennial simulations. <i>Geoscientific Model Development</i> , 2011, 4, 543-570.	3.6	803
48	The HadGEM2 family of Met Office Unified Model climate configurations. <i>Geoscientific Model Development</i> , 2011, 4, 723-757.	3.6	765
49	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9451-9472.	4.9	215
50	Decline and recovery of total column ozone using a multimodel time series analysis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	74
51	The Climatology of the Middle Atmosphere in a Vertically Extended Version of the Met Office's Climate Model. Part I: Mean State. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 1509-1525.	1.7	34
52	Using Different Formulations of the Transformed Eulerian Mean Equations and Eliassen-Palm Diagnostics in General Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 1983-1995.	1.7	19
53	Sensitivity of GCM tropical middle atmosphere variability and climate to ozone and parameterized gravity wave changes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
54	Chemistry-climate model simulations of spring Antarctic ozone. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51

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55	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	171
56	Review of the formulation of presentâ€‘generation stratospheric chemistryâ€‘climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
57	Stratosphereâ€‘troposphere coupling and annular mode variability in chemistryâ€‘climate models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	107
58	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	66
59	The Dynamical Response to Snow Cover Perturbations in a Large Ensemble of Atmospheric GCM Integrations. <i>Journal of Climate</i> , 2009, 22, 1208-1222.	3.2	113
60	Dynamical sensitivity of the stratospheric circulation and downward influence of upper level perturbations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	21
61	Investigating the ability of general circulation models to capture the effects of Eurasian snow cover on winter climate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	80
62	A note on forced versus internal variability of the stratosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	19