

Dennis Hartmann

List of Publications by Year in descending order

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84
papers

9,757
citations

41344

49
h-index

56724

83
g-index

101
all docs

101
docs citations

101
times ranked

6725
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative Cooling, Latent Heating, and Cloud Ice in the Tropical Upper Troposphere. <i>Journal of Climate</i> , 2022, 35, 1643-1654.	3.2	3
2	Diurnal Differences in Tropical Maritime Anvil Cloud Evolution. <i>Journal of Climate</i> , 2022, 35, 1655-1677.	3.2	6
3	Global Radiative Convective Equilibrium With a Slab Ocean: SST Contrast, Sensitivity and Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	1
4	Congestus Mode Invigoration by Convective Aggregation in Simulations of Radiativeâ€Convective Equilibrium. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	3
5	A Lagrangian Perspective on Tropical Anvil Cloud Lifecycle in Present and Future Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033487.	3.3	14
6	Tropical Anvil Clouds: Radiative Driving Toward a Preferred State. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033107.	3.3	20
7	What Drives the Life Cycle of Tropical Anvil Clouds?. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2586-2605.	3.8	42
8	Convection and Climate: What Have We Learned from Simple Models and Simplified Settings?. <i>Current Climate Change Reports</i> , 2019, 5, 196-206.	8.6	13
9	Ocean Circulation Signatures of North Pacific Decadal Variability. <i>Geophysical Research Letters</i> , 2019, 46, 1690-1701.	4.0	19
10	Is the Net Cloud Radiative Effect Constrained to be Uniform Over the Tropical Warm Pools?. <i>Geophysical Research Letters</i> , 2019, 46, 12495-12503.	4.0	11
11	Oceanâ€Atmosphere Dynamical Coupling Fundamental to the Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2019, 32, 251-272.	3.2	74
12	Predicting decadal trends in cloud droplet number concentration using reanalysis and satellite data. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2035-2047.	4.9	44
13	Disentangling Global Warming, Multidecadal Variability, and El NiÃ±o in Pacific Temperatures. <i>Geophysical Research Letters</i> , 2018, 45, 2487-2496.	4.0	114
14	The Life Cycle and Net Radiative Effect of Tropical Anvil Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3012-3029.	3.8	32
15	Weakening of Nonlinear ENSO Under Global Warming. <i>Geophysical Research Letters</i> , 2018, 45, 8557-8567.	4.0	26
16	The Life Cycle of Anvil Clouds and the Top-of-Atmosphere Radiation Balance over the Tropical West Pacific. <i>Journal of Climate</i> , 2018, 31, 10059-10080.	3.2	28
17	Balanced Cloud Radiative Effects Across a Range of Dynamical Conditions Over the Tropical West Pacific. <i>Geophysical Research Letters</i> , 2018, 45, 11,490.	4.0	13
18	Mixed-Phase Cloud Feedbacks. , 2018, , 215-236.		7

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19	The global aerosol-cloud first indirect effect estimated using MODIS, MERRA, and AeroCom. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1779-1796.	3.3	81
20	La Niña-like Mean-State Response to Global Warming and Potential Oceanic Roles. <i>Journal of Climate</i> , 2017, 30, 4207-4225.	3.2	88
21	Nonlinear ENSO Warming Suppression (NEWS). <i>Journal of Climate</i> , 2017, 30, 4227-4251.	3.2	39
22	The balanced radiative effect of tropical anvil clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5003-5020.	3.3	47
23	The Change in Low Cloud Cover in a Warmed Climate Inferred from AIRS, MODIS, and ERA-Interim. <i>Journal of Climate</i> , 2017, 30, 3609-3620.	3.2	56
24	Cloud feedback mechanisms and their representation in global climate models. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e465.	8.1	154
25	Instantaneous Linkages between Clouds and Large-Scale Meteorology over the Southern Ocean in Observations and a Climate Model. <i>Journal of Climate</i> , 2017, 30, 9455-9474.	3.2	33
26	Classifying the tropospheric precursor patterns of sudden stratospheric warmings. <i>Geophysical Research Letters</i> , 2017, 44, 8011-8016.	4.0	28
27	The Role of Synoptic Waves in the Formation and Maintenance of the Western Hemisphere Circulation Pattern. <i>Journal of Climate</i> , 2017, 30, 10259-10274.	3.2	6
28	Observational evidence for a negative shortwave cloud feedback in middle to high latitudes. <i>Geophysical Research Letters</i> , 2016, 43, 1331-1339.	4.0	60
29	The role of cloud radiative heating within the atmosphere on the high cloud amount and top-of-atmosphere cloud radiative effect. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1391-1410.	3.8	20
30	The Role of Cloud Radiative Heating in Determining the Location of the ITCZ in Aquaplanet Simulations. <i>Journal of Climate</i> , 2016, 29, 2741-2763.	3.2	47
31	Tropical anvil clouds and climate sensitivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8897-8899.	7.1	27
32	On the relationships among cloud cover, mixed-phase partitioning, and planetary albedo in GCMs. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 650-668.	3.8	120
33	Antarctic Sea Ice Response to Weather and Climate Modes of Variability*. <i>Journal of Climate</i> , 2016, 29, 721-741.	3.2	52
34	Clouds and the Atmospheric Circulation Response to Warming. <i>Journal of Climate</i> , 2016, 29, 783-799.	3.2	94
35	Mechanisms of the Negative Shortwave Cloud Feedback in Middle to High Latitudes. <i>Journal of Climate</i> , 2016, 29, 139-157.	3.2	81
36	Connections Between Clouds, Radiation, and Midlatitude Dynamics: a Review. <i>Current Climate Change Reports</i> , 2015, 1, 94-102.	8.6	337

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37	Observations of a substantial cloudâ€aerosol indirect effect during the 2014â€2015 BÃ¡rÃ°arbungaâ€veivÃ°tn fissure eruption in Iceland. <i>Geophysical Research Letters</i> , 2015, 42, 10,409.	4.0	34
38	On the influence of poleward jet shift on shortwave cloud feedback in global climate models. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 2044-2059.	3.8	23
39	Mixedâ€phase cloud physics and Southern Ocean cloud feedback in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9539-9554.	3.3	120
40	Observational evidence of strengthening of the Brewerâ€Dobson circulation since 1980. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,214.	3.3	48
41	Pacific sea surface temperature and the winter of 2014. <i>Geophysical Research Letters</i> , 2015, 42, 1894-1902.	4.0	252
42	Natural aerosols explain seasonal and spatial patterns of Southern Ocean cloud albedo. <i>Science Advances</i> , 2015, 1, e1500157.	10.3	144
43	The Atmospheric Energy Constraint on Global-Mean Precipitation Change. <i>Journal of Climate</i> , 2014, 27, 757-768.	3.2	187
44	Observed Southern Ocean Cloud Properties and Shortwave Reflection. Part II: Phase Changes and Low Cloud Feedback*. <i>Journal of Climate</i> , 2014, 27, 8858-8868.	3.2	61
45	Observed Southern Ocean Cloud Properties and Shortwave Reflection. Part I: Calculation of SW Flux from Observed Cloud Properties*. <i>Journal of Climate</i> , 2014, 27, 8836-8857.	3.2	47
46	The response of the Southern Hemispheric eddy-driven jet to future changes in shortwave radiation in CMIP5. <i>Geophysical Research Letters</i> , 2014, 41, 3244-3250.	4.0	98
47	Does the Holtonâ€Tan Mechanism Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex?. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 1713-1733.	1.7	135
48	Computing and Partitioning Cloud Feedbacks Using Cloud Property Histograms. Part II: Attribution to Changes in Cloud Amount, Altitude, and Optical Depth. <i>Journal of Climate</i> , 2012, 25, 3736-3754.	3.2	192
49	Impact of Tropical SST on Stratospheric Planetary Waves in the Southern Hemisphere. <i>Journal of Climate</i> , 2012, 25, 5030-5046.	3.2	36
50	Computing and Partitioning Cloud Feedbacks Using Cloud Property Histograms. Part I: Cloud Radiative Kernels. <i>Journal of Climate</i> , 2012, 25, 3715-3735.	3.2	195
51	Detection of Rossby wave breaking and its response to shifts of the midlatitude jet with climate change. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	76
52	Testing the Role of Radiation in Determining Tropical Cloud-Top Temperature. <i>Journal of Climate</i> , 2012, 25, 5731-5747.	3.2	37
53	The observed sensitivity of high clouds to mean surface temperature anomalies in the tropics. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	85
54	The Influence of the Quasi-Biennial Oscillation on the Troposphere in Winter in a Hierarchy of Models. Part I: Simplified Dry GCMs. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 1273-1289.	1.7	94

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55	The Influence of the Quasi-Biennial Oscillation on the Troposphere in Winter in a Hierarchy of Models. Part II: Perpetual Winter WACCM Runs. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2026-2041.	1.7	67
56	Tropospheric Precursors of Anomalous Northern Hemisphere Stratospheric Polar Vortices. <i>Journal of Climate</i> , 2010, 23, 3282-3299.	3.2	246
57	Effect of latitude on the persistence of eddy-driven jets. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	42
58	Testing a theory for the effect of latitude on the persistence of eddy-driven jets using CMIP3 simulations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	41
59	Influence of eddy-driven jet latitude on North Atlantic jet persistence and blocking frequency in CMIP3 integrations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	49
60	Why is longwave cloud feedback positive?. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	223
61	Influence of the quasi-biennial oscillation on the North Pacific and El Niño teleconnections. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
62	A Test of the Simulation of Tropical Convective Cloudiness by a Cloud-Resolving Model. <i>Journal of Climate</i> , 2009, 22, 2834-2849.	3.2	16
63	Large-scale Controls on Cloudiness. , 2009, , 217-234.		14
64	Different ENSO teleconnections and their effects on the stratospheric polar vortex. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	214
65	Radiative and Convective Driving of Tropical High Clouds. <i>Journal of Climate</i> , 2007, 20, 5510-5526.	3.2	69
66	Testing the Fixed Anvil Temperature Hypothesis in a Cloud-Resolving Model. <i>Journal of Climate</i> , 2007, 20, 2051-2057.	3.2	79
67	Effects of the El Niño-Southern Oscillation and the Quasi-Biennial Oscillation on polar temperatures in the stratosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	182
68	Increased Occurrence of Stratospheric Sudden Warmings during El Niño as Simulated by WACCM. <i>Journal of Climate</i> , 2006, 19, 324-332.	3.2	181
69	The Effect of the MJO on the North American Monsoon*. <i>Journal of Climate</i> , 2006, 19, 333-343.	3.2	103
70	Spatial Variability of Liquid Water Path in Marine Low Cloud: The Importance of Mesoscale Cellular Convection. <i>Journal of Climate</i> , 2006, 19, 1748-1764.	3.2	306
71	Changes in the strength of the Brewer-Dobson circulation in a simple AGCM. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	70
72	Stratosphere-troposphere evolution during polar vortex intensification. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	156

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73	The Life Cycle of the Northern Hemisphere Sudden Stratospheric Warmings. <i>Journal of Climate</i> , 2004, 17, 2584-2596.	3.2	409
74	No Evidence for Iris. <i>Bulletin of the American Meteorological Society</i> , 2002, 83, 249-254.	3.3	86
75	Tropical cirrus and water vapor: an effective Earth infrared iris feedback?. <i>Atmospheric Chemistry and Physics</i> , 2002, 2, 31-37.	4.9	69
76	An important constraint on tropical cloud - climate feedback. <i>Geophysical Research Letters</i> , 2002, 29, 12-1-12-4.	4.0	337
77	The heat balance of the tropical tropopause, cirrus, and stratospheric dehydration. <i>Geophysical Research Letters</i> , 2001, 28, 1969-1972.	4.0	227
78	Tropical Convection and the Energy Balance at the Top of the Atmosphere. <i>Journal of Climate</i> , 2001, 14, 4495-4511.	3.2	210
79	A Trajectory Analysis of Tropical Upper-Tropospheric Moisture and Convection. <i>Journal of Climate</i> , 1997, 10, 2533-2547.	3.2	95
80	Large-Scale Effects on the Regulation of Tropical Sea Surface Temperature. <i>Journal of Climate</i> , 1993, 6, 2049-2062.	3.2	153
81	The Seasonal Cycle of Low Stratiform Clouds. <i>Journal of Climate</i> , 1993, 6, 1587-1606.	3.2	1,289
82	The Effect of Cloud Type on Earth's Energy Balance: Global Analysis. <i>Journal of Climate</i> , 1992, 5, 1281-1304.	3.2	588
83	Some Implications of the Mesoscale Circulations in Tropical Cloud Clusters for Large-Scale Dynamics and Climate. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 113-121.	1.7	271
84	On the Use of Earth Radiation Budget Statistics for Studies of Clouds and Climate. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 1233-1250.	1.7	192