

Paul A O'gorman

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

7,227
citations

109321

35
h-index

161849

54
g-index

60
all docs

60
docs citations

60
times ranked

6924
citing authors

#	ARTICLE	IF	CITATIONS
1	Summer-Winter Contrast in the Response of Precipitation Extremes to Climate Change Over Northern Hemisphere Land. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
2	Elements of the Dynamical Response to Climate Change over the Mediterranean. <i>Journal of Climate</i> , 2021, 34, 1135-1146.	3.2	9
3	Response of extreme precipitation to uniform surface warming in quasi-global aquaplanet simulations at high resolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190543.	3.4	11
4	Towards advancing scientific knowledge of climate change impacts on short-duration rainfall extremes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190542.	3.4	56
5	Use of Neural Networks for Stable, Accurate and Physically Consistent Parameterization of Subgrid Atmospheric Processes With Good Performance at Reduced Precision. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091363.	4.0	50
6	Weakening of the Extratropical Storm Tracks in Solar Geoengineering Scenarios. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087348.	4.0	12
7	Importance of Laplacian of Low-Level Warming for the Response of Precipitation to Climate Change over Tropical Oceans. <i>Journal of Climate</i> , 2020, 33, 4403-4417.	3.2	17
8	Stable machine-learning parameterization of subgrid processes for climate modeling at a range of resolutions. <i>Nature Communications</i> , 2020, 11, 3295.	12.8	103
9	Response of Vertical Velocities in Extratropical Precipitation Extremes to Climate Change. <i>Journal of Climate</i> , 2020, 33, 7125-7139.	3.2	26
10	Changing available energy for extratropical cyclones and associated convection in Northern Hemisphere summer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4105-4110.	7.1	16
11	Trends in continental temperature and humidity directly linked to ocean warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4863-4868.	7.1	184
12	Increase in the skewness of extratropical vertical velocities with climate warming: fully nonlinear simulations versus moist baroclinic instability. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 208-217.	2.7	17
13	Using Machine Learning to Parameterize Moist Convection: Potential for Modeling of Climate, Climate Change, and Extreme Events. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2548-2563.	3.8	219
14	Climate research must sharpen its view. <i>Nature Climate Change</i> , 2017, 7, 89-91.	18.8	80
15	Moist Formulations of the Eliassen-Palm Flux and Their Connection to the Surface Westerlies. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 513-530.	1.7	18
16	Twenty-First-Century Changes in U.S. Regional Heavy Precipitation Frequency Based on Resolved Atmospheric Patterns. <i>Journal of Climate</i> , 2017, 30, 2501-2521.	3.2	12
17	Changing duration and spatial extent of midlatitude precipitation extremes across different climates. <i>Geophysical Research Letters</i> , 2017, 44, 5863-5871.	4.0	44
18	Accurate computation of moist available potential energy with the Munkres algorithm. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 288-292.	2.7	14

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19	Storm track processes and the opposing influences of climate change. <i>Nature Geoscience</i> , 2016, 9, 656-664.	12.9	370
20	Understanding Decreases in Land Relative Humidity with Global Warming: Conceptual Model and GCM Simulations. <i>Journal of Climate</i> , 2016, 29, 9045-9061.	3.2	174
21	Scaling of the entropy budget with surface temperature in radiative-convective equilibrium. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1132-1150.	3.8	11
22	Percentile indices for assessing changes in heavy precipitation events. <i>Climatic Change</i> , 2016, 137, 201-216.	3.6	197
23	More extreme precipitation in the world's dry and wet regions. <i>Nature Climate Change</i> , 2016, 6, 508-513.	18.8	1,043
24	Extratropical Cyclones in Idealized Simulations of Changed Climates. <i>Journal of Climate</i> , 2015, 28, 9373-9392.	3.2	55
25	Increases in moist-convective updraught velocities with warming in radiative-convective equilibrium. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2828-2838.	2.7	56
26	Precipitation Extremes Under Climate Change. <i>Current Climate Change Reports</i> , 2015, 1, 49-59.	8.6	480
27	The Response of Precipitation Minus Evapotranspiration to Climate Warming: Why the "Wet-Get-Wetter, Dry-Get-Drier" Scaling Does Not Hold over Land*. <i>Journal of Climate</i> , 2015, 28, 8078-8092.	3.2	237
28	Effective stability in a moist baroclinic wave. <i>Atmospheric Science Letters</i> , 2015, 16, 56-62.	1.9	14
29	Influence of microphysics on the scaling of precipitation extremes with temperature. <i>Geophysical Research Letters</i> , 2014, 41, 6037-6044.	4.0	86
30	Contrasting responses of mean and extreme snowfall to climate change. <i>Nature</i> , 2014, 512, 416-418.	27.8	171
31	Climate at high-obliquity. <i>Icarus</i> , 2014, 243, 236-248.	2.5	76
32	Land-Ocean Warming Contrast over a Wide Range of Climates: Convective Quasi-Equilibrium Theory and Idealized Simulations. <i>Journal of Climate</i> , 2013, 26, 4000-4016.	3.2	103
33	Link between land-ocean warming contrast and surface relative humidities in simulations with coupled climate models. <i>Geophysical Research Letters</i> , 2013, 40, 5223-5227.	4.0	101
34	Vertical structure of warming consistent with an upward shift in the middle and upper troposphere. <i>Geophysical Research Letters</i> , 2013, 40, 1838-1842.	4.0	30
35	Influence of entrainment on the thermal stratification in simulations of radiative-convective equilibrium. <i>Geophysical Research Letters</i> , 2013, 40, 4398-4403.	4.0	110
36	Upward Shift of the Atmospheric General Circulation under Global Warming: Theory and Simulations. <i>Journal of Climate</i> , 2012, 25, 8259-8276.	3.2	72

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37	Sensitivity of tropical precipitation extremes to climate change. <i>Nature Geoscience</i> , 2012, 5, 697-700.	12.9	249
38	Energetic Constraints on Precipitation Under Climate Change. <i>Surveys in Geophysics</i> , 2012, 33, 585-608.	4.6	196
39	The Relative Humidity in an Isentropic Advection-Condensation Model: Limited Poleward Influence and Properties of Subtropical Minima. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 3079-3093.	1.7	13
40	Intensification of Precipitation Extremes with Warming in a Cloud-Resolving Model. <i>Journal of Climate</i> , 2011, 24, 2784-2800.	3.2	181
41	The Effective Static Stability Experienced by Eddies in a Moist Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 75-90.	1.7	84
42	Energetic Constraints on Precipitation Under Climate Change. <i>Space Sciences Series of ISSI</i> , 2011, , 253-276.	0.0	1
43	Understanding the varied response of the extratropical storm tracks to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19176-19180.	7.1	125
44	Relative humidity changes in a warmer climate. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	185
45	WATER VAPOR AND THE DYNAMICS OF CLIMATE CHANGES. <i>Reviews of Geophysics</i> , 2010, 48, .	23.0	358
46	Scaling of Precipitation Extremes over a Wide Range of Climates Simulated with an Idealized GCM. <i>Journal of Climate</i> , 2009, 22, 5676-5685.	3.2	172
47	The physical basis for increases in precipitation extremes in simulations of 21st-century climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14773-14777.	7.1	853
48	Energy of Midlatitude Transient Eddies in Idealized Simulations of Changed Climates. <i>Journal of Climate</i> , 2008, 21, 5797-5806.	3.2	100
49	Moist Convection and the Thermal Stratification of the Extratropical Troposphere. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3571-3583.	1.7	45
50	The Hydrological Cycle over a Wide Range of Climates Simulated with an Idealized GCM. <i>Journal of Climate</i> , 2008, 21, 3815-3832.	3.2	240
51	Weather-Layer Dynamics of Baroclinic Eddies and Multiple Jets in an Idealized General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 524-535.	1.7	24
52	A Climatology of Tropospheric Zonal-Mean Water Vapor Fields and Fluxes in Isentropic Coordinates. <i>Journal of Climate</i> , 2006, 19, 5918-5933.	3.2	57
53	Stochastic Models for the Kinematics of Moisture Transport and Condensation in Homogeneous Turbulent Flows. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2992-3005.	1.7	28
54	Effect of Schmidt number on the velocity-scalar cospectrum in isotropic turbulence with a mean scalar gradient. <i>Journal of Fluid Mechanics</i> , 2005, 532, 111-140.	3.4	30

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55	Tropical precipitation clusters as islands on a rough waterâ€vapor topography. Quarterly Journal of the Royal Meteorological Society, 0, , .	2.7	0