

Jon C Petch

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,972
citations

279487

23
h-index

377514

34
g-index

38
all docs

38
docs citations

38
times ranked

2295
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertical structure and physical processes of the Madden-Julian oscillation: Exploring key model physics in climate simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4718-4748.	1.2	332
2	An intercomparison of cloud-resolving models with the Atmospheric Radiation Measurement summer 1997 Intensive Observation Period data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 593-624.	1.0	192
3	Daytime convective development over land: A model intercomparison based on LBA observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 317-344.	1.0	160
4	Intercomparison and evaluation of cumulus parametrizations under summertime midlatitude continental conditions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1095-1135.	1.0	119
5	The first Met Office Unified Model "JULES Regional Atmosphere and Land configuration, RAL1. <i>Geoscientific Model Development</i> , 2020, 13, 1999-2029.	1.3	96
6	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using "Train" satellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2762-2780.	1.2	90
7	Sensitivity studies using a cloud-resolving model simulation of the tropical west Pacific. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 2287-2306.	1.0	69
8	Sensitivity studies of developing convection in a cloud-resolving model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 345-358.	1.0	63
9	Vertical structure and physical processes of the Madden-Julian oscillation: Linking hindcast fidelity to simulated diabatic heating and moistening. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4690-4717.	1.2	63
10	CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3612-3644.	1.2	62
11	CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2888-2909.	1.2	60
12	Vertical structure and physical processes of the Madden-Julian oscillation: Synthesis and summary. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4671-4689.	1.2	58
13	Introduction to CAUSES: Description of Weather and Climate Models and Their Near-Surface Temperature Errors in 5-Day Hindcasts Near the Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2655-2683.	1.2	53
14	Two fast radiative transfer methods to improve the temporal sampling of clouds in numerical weather prediction and climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 457-468.	1.0	47
15	Drivers of the UK summer heatwave of 2018. <i>Weather</i> , 2019, 74, 390-396.	0.6	46
16	Moist convection and its upscale effects in simulations of the Indian monsoon with explicit and parametrized convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1073-1085.	1.0	41
17	TWP-ICE global atmospheric model intercomparison: Convection responsiveness and resolution impact. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
18	Modelling suppressed and active convection. Comparing a numerical weather prediction, cloud-resolving and single-column model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1087-1100.	1.0	34

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19	Evaluation of two cloud parametrization schemes using ARM and CloudNet observations. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 964-979.	1.0	33
20	A single-column model ensemble approach applied to the TWP-ICE experiment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6544-6563.	1.2	33
21	CAUSES: Diagnosis of the Summertime Warm Bias in CMIP5 Climate Models at the ARM Southern Great Plains Site. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2968-2992.	1.2	33
22	A limited area model (LAM) intercomparison study of a TWP-ICE active monsoon mesoscale convective event. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	27
23	Vertical structure and physical processes of the Madden-Julian Oscillation: Biases and uncertainties at short range. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4749-4763.	1.2	26
24	Differences in the lower troposphere in two- and three-dimensional cloud-resolving model simulations of deep convection. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1941-1946.	1.0	23
25	Using regime analysis to identify the contribution of clouds to surface temperature errors in weather and climate models. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3190-3206.	1.0	22
26	Parametrizing the horizontal inhomogeneity of ice water content using CloudSat data products. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1784-1793.	1.0	20
27	Evaluation of intercomparisons of four different types of model simulating <scp>TWP-ICE</scp>. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 826-837.	1.0	18
28	How Well Can the Met Office Unified Model Forecast Tropical Cyclones in the Western North Pacific?. Weather and Forecasting, 2018, 33, 185-201.	0.5	17
29	Analysis of prognostic cloud scheme increments in a climate model. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2061-2073.	1.0	15
30	Sensitivity of the 2018 UK summer heatwave to local sea temperatures and soil moisture. Atmospheric Science Letters, 2020, 21, e948.	0.8	15
31	The predictability of deep convection in cloud-resolving simulations over land. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3173-3187.	1.0	14
32	Reducing the spin-up of a regional NWP system without data assimilation. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 1623-1643.	1.0	12
33	Evaluating the impact of atmospheric forcing and air-sea coupling on near-coastal regional ocean prediction. Ocean Science, 2019, 15, 761-778.	1.3	9
34	Deep Convective Clouds. , 2009, , 197-216.		4
35	Cloud-controlling Factors. , 2009, , 269-290.		2
36	Vertical Structure and Diabatic Processes of the Madden-Julian Oscillation. World Scientific Series on Asia-Pacific Weather and Climate, 2017, , 161-172.	0.2	0