

Cyril J Morcrette

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,887
citations

279487

23
h-index

182168

51
g-index

61
all docs

61
docs citations

61
times ranked

3476
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	401
2	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
3	The Met Office Unified Model Global Atmosphere 3.0/3.1 and JULES Global Land 3.0/3.1 configurations. <i>Geoscientific Model Development</i> , 2011, 4, 919-941.	1.3	250
4	PC2: A prognostic cloud fraction and condensation scheme. I: Scheme description. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 2093-2107.	1.0	246
5	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.	1.3	154
6	The Convective Storm Initiation Project. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 1939-1956.	1.7	110
7	A Pan-African Convection-Permitting Regional Climate Simulation with the Met Office Unified Model: CP4-Africa. <i>Journal of Climate</i> , 2018, 31, 3485-3508.	1.2	102
8	Spatial variability of liquid cloud and rain: observations and microphysical effects. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 583-594.	1.0	101
9	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
10	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
11	PC2: A prognostic cloud fraction and condensation scheme. II: Climate model simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 2109-2125.	1.0	73
12	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
13	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
14	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
15	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. <i>Journal of Climate</i> , 2015, 28, 6516-6535.	1.2	47
16	A Physically Based Subgrid Parameterization for the Production and Maintenance of Mixed-Phase Clouds in a General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 279-291.	0.6	44
17	Evaluating the Diurnal Cycle of Upper-Tropospheric Ice Clouds in Climate Models Using SMILES Observations. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1022-1044.	0.6	35
18	Evaluation of two cloud parametrization schemes using ARM and CloudNet observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 964-979.	1.0	33

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19	CAUSES: Diagnosis of the Summertime Warm Bias in CMIP5 Climate Models at the ARM Southern Great Plains Site. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2968-2992.	1.2	33
20	Improvements to a prognostic cloud scheme through changes to its cloud erosion parametrization. <i>Atmospheric Science Letters</i> , 2012, 13, 95-102.	0.8	30
21	A "warm path" for Gulf Stream-troposphere interactions. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 69, 1299397.	0.8	29
22	Finding plausible and diverse variants of a climate model. Part 1: establishing the relationship between errors at weather and climate time scales. <i>Climate Dynamics</i> , 2019, 53, 989-1022.	1.7	29
23	A regime-dependent parametrization of subgrid-scale cloud water content variability. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1975-1986.	1.0	27
24	The increased prevalence of <i>Vibrio</i> species and the first reporting of <i>Vibrio jasicida</i> and <i>Vibrio rotiferianus</i> at UK shellfish sites. <i>Water Research</i> , 2022, 211, 117942.	5.3	26
25	Combination of Mesoscale and Synoptic Mechanisms for Triggering an Isolated Thunderstorm: Observational Case Study of CSIP IOP 1. <i>Monthly Weather Review</i> , 2007, 135, 3728-3749.	0.5	24
26	Parametrization of area cloud fraction. <i>Atmospheric Science Letters</i> , 2010, 11, 283-289.	0.8	23
27	Using regime analysis to identify the contribution of clouds to surface temperature errors in weather and climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 3190-3206.	1.0	22
28	The increase of spatial data resolution for the detection of the initiation of convection. A case study from CSIP. <i>Meteorologische Zeitschrift</i> , 2010, 19, 179-198.	0.5	17
29	Secondary initiation of multiple bands of cumulonimbus over southern Britain. I: An observational case-study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1021-1051.	1.0	16
30	Convective inhibition beneath an upper-level PV anomaly. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 371-383.	1.0	15
31	The Surprising Role of Orography in the Initiation of an Isolated Thunderstorm in Southern England. <i>Monthly Weather Review</i> , 2009, 137, 3026-3046.	0.5	15
32	Analysis of prognostic cloud scheme increments in a climate model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 2061-2073.	1.0	15
33	Towards retrieving critical relative humidity from ground-based remote sensing observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2867-2881.	1.0	15
34	Variable cirrus shading during CSIP IOP 5. I: Effects on the initiation of convection. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1643-1660.	1.0	13
35	Determination of global Earth outgoing radiation at high temporal resolution using a theoretical constellation of satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1114-1131.	1.2	13
36	Combining distribution-based neural networks to predict weather forecast probabilities. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 4337-4357.	1.0	13

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37	Variable cirrus shading during CSIP IOP 5. II: Effects on the convective boundary layer. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1661-1675.	1.0	12
38	Evaluating statistical cloud schemes: What can we gain from ground-based remote sensing?. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,507.	1.2	12
39	Modulation of precipitation by conditional symmetric instability release. Atmospheric Research, 2017, 185, 186-201.	1.8	12
40	Insights into the diurnal cycle of global Earth outgoing radiation using a numerical weather prediction model. Atmospheric Chemistry and Physics, 2018, 18, 5129-5145.	1.9	12
41	Evaluation of CMIP5 upper troposphere and lower stratosphere geopotential height with GPS radio occultation observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1678-1689.	1.2	10
42	Development and Evaluation of In-Flight Icing Index Forecast for Aviation. Weather and Forecasting, 2019, 34, 731-750.	0.5	10
43	A Bimodal Diagnostic Cloud Fraction Parameterization. Part I: Motivating Analysis and Scheme Description. Monthly Weather Review, 2021, 149, 841-857.	0.5	10
44	The evolution of an MCS over southern England. Part 1: Observations. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 439-457.	1.0	9
45	Formation and release of symmetric instability following Delta-M adjustment. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1073-1089.	1.0	8
46	The evolution of an MCS over southern England. Part 2: Model simulations and sensitivity to microphysics. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 458-479.	1.0	8
47	Convection forced by a descending dry layer and low-level moist convergence. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 61, 250.	0.8	6
48	Prognostic cloud scheme increment diagnostics: a novel addition to the case study tool kit. Atmospheric Science Letters, 2012, 13, 200-207.	0.8	6
49	A Bimodal Diagnostic Cloud Fraction Parameterization. Part II: Evaluation and Resolution Sensitivity. Monthly Weather Review, 2021, 149, 859-878.	0.5	4
50	Toward a New UV Index Diagnostic in the Met Office's Forecast Model. Journal of Advances in Modeling Earth Systems, 2017, 9, 2654-2671.	1.3	3
51	Sensitivity of Cloud Radiative Effects to Cloud Fraction Parametrizations in Tropical, Mid-Latitude and Arctic Kilometre-Scale Simulations. Quarterly Journal of the Royal Meteorological Society, 0, , .	1.0	2
52	Using machine learning to find cloud base height: a didactic challenge. Weather, 2022, 77, 391-395.	0.6	1
53	Modification of the thermodynamic variability closure in the Met Office Unified Model prognostic cloud scheme. Atmospheric Science Letters, 2021, 22, e1021.	0.8	0