Kalli J Furtado

List of Publications by Year
in descending order

24 papers	1,180 citations	623734 14 h-index	642732 23 g-index
38 all docs	38 docs citations	38 times ranked	2418 citing authors

#	Article	IF	Citations
1	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. Geoscientific Model Development, 2019, 12, 1909-1963.	3.6	372
2	Strong control of Southern Ocean cloud reflectivity by ice-nucleating particles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2687-2692.	7.1	156
3	Increasing precipitation variability on daily-to-multiyear time scales in a warmer world. Science Advances, 2021, 7, .	10.3	111
4	Critical Southern Ocean climate model biases traced to atmospheric model cloud errors. Nature Communications, 2018, 9, 3625.	12.8	109
5	A Coupled Cloud Physicsâ€“Radiation Parameterization of the Bulk Optical Properties of Cirrus and Its Impact on the Met Office Unified Model Global Atmosphere 5.0 Configuration. Journal of Climate, 2014, 27, 7725-7752.	3.2	52
6	Processes Controlling Tropical Tropopause Temperature and Stratospheric Water Vapor in Climate Models. Journal of Climate, 2015, 28, 6516-6535.	3.2	47
7	A selfâ€consistent scattering model for cirrus. II: The high and low frequencies. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1039-1057.	2.7	46
8	Prediction of heavy precipitation in the eastern China flooding events of 2016: Added value of convectionâ€permitting simulations. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3300-3319.	2.7	28
9	The Role of Ice Microphysics Parametrizations in Determining the Prevalence of Supercooled Liquid Water in High-Resolution Simulations of a Southern Ocean Midlatitude Cyclone. Journals of the Atmospheric Sciences, 2017, 74, 2001-2021.	1.7	27
10	The Impact of Two Coupled Cirrus Microphysicsâ€“Radiation Parameterizations on the Temperature and Specific Humidity Biases in the Tropical Tropopause Layer in a Climate Model. Journal of Climate, 2016, 29, 5299-5316.	3.2	26
11	Cloud Microphysical Factors Affecting Simulations of Deep Convection During the Presummer Rainy Season in Southern China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,477.	3.3	21
12	On the relationship between the scattering phase function of cirrus and the atmospheric state. Atmospheric Chemistry and Physics, 2015, 15, 1105-1127.	4.9	18
13	Derivation and thermodynamics of a lattice Boltzmann model with soluble amphiphilic surfactant. Physical Review E, 2010, 81, 066704.	2.1	16
14	How Well Can a Climate Model Simulate an Extreme Precipitation Event: A Case Study Using the Transpose-AMIP Experiment. Journal of Climate, 2018, 31, 6543-6556.	3.2	16
15	Clusterâ€Based Evaluation of Model Compensating Errors: A Case Study of Cloud Radiative Effect in the Southern Ocean. Geophysical Research Letters, 2019, 46, 3446-3453.	4.0	15
16	The effects of cloudâ€“aerosol interaction complexity on simulations of presummer rainfall over southern China. Atmospheric Chemistry and Physics, 2020, 20, 5093-5110.	4.9	14
17	The role of anthropogenic aerosols in the anomalous cooling from 1960 to 1990 in the CMIP6 Earth system models. Atmospheric Chemistry and Physics, 2021, 21, 18609-18627.	4.9	14
18	Science and prediction of monsoon heavy rainfall. Science Bulletin, 2019, 64, 1557-1561.	9.0	12

#	Article	IF	Citations
19	The impact of performance filtering on climate feedbacks in a perturbed parameter ensemble. Climate Dynamics, 2020, 55, 521-551.	3.8	10
20	Improving the Southern Ocean cloud albedo biases in a general circulation model. Atmospheric Chemistry and Physics, 2020, 20, 7741-7751.	4.9	10
21	Effects of anthropogenic and sea salt aerosols on a heavy rainfall event during the early-summer rainy season over coastal Southern China. Atmospheric Research, 2022, 265, 105923.	4.1	9
22	How Biased Is Aircraft Cloud Sampling?. Journal of Atmospheric and Oceanic Technology, 2016, 33, 185-189.	1.3	5
23	Subgrid Representation of Mixed-Phase Clouds in a General Circulation Model. , 2018, , 185-214.		0
24	A strong statistical link between aerosol indirect effects and the self-similarity of rainfall distributions. Atmospheric Chemistry and Physics, 2022, 22, 3391-3407.	4.9	0