Daniel Grosvenor

List of Publications by Year
in descending order

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31 papers	2,071 citations	257450 24 h-index	434195 31 g-index
60 all docs	60 docs citations	60 times ranked	2880 citing authors

#	Article	IF	Citations
1	Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674.	4.9	44
2	Evaluating the Lagrangian Evolution of Subtropical Low Clouds in GCMs Using Observations: Mean Evolution, Time Scales, and Responses to Predictors. Journals of the Atmospheric Sciences, 2021, 78, 353-372.	1.7	1
3	The Evaluation of the North Atlantic Climate System in UKESM1 Historical Simulations for CMIP6. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002126.	3.8	8
4	The hemispheric contrast in cloud microphysical properties constrains aerosol forcing. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18998-19006.	7.1	51
5	The value of remote marine aerosol measurements for constraining radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2020, 20, 10063-10072.	4.9	27
6	Development of aerosol activation in the double-moment Unified Model and evaluation with CLARIFY measurements. Atmospheric Chemistry and Physics, 2020, 20, 10997-11024.	4.9	7
7	Untangling causality in midlatitude aerosolâ€“cloud adjustments. Atmospheric Chemistry and Physics, 2020, 20, 4085-4103.	4.9	25
8	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. Geoscientific Model Development, 2020, 13, 6383-6423.	3.6	83
9	The decomposition of cloudâ€“aerosol forcing in the UK Earth System Model (UKESM1). Atmospheric Chemistry and Physics, 2020, 20, 15681-15724.	4.9	7
10	Assessment of aerosolâ€“cloudâ€“radiation correlations in satellite observations, climate models and reanalysis. Climate Dynamics, 2019, 52, 4371-4392.	3.8	35
11	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
12	Predicting decadal trends in cloud droplet number concentration using reanalysis and satellite data. Atmospheric Chemistry and Physics, 2018, 18, 2035-2047.	4.9	44
13	Improved Aerosol Processes and Effective Radiative Forcing in HadGEM3 and UKESM1. Journal of Advances in Modeling Earth Systems, 2018, 10, 2786-2805.	3.8	106
14	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. Reviews of Geophysics, 2018, 56, 409-453.	23.0	185
15	Parameterizing cloud top effective radii from satellite retrieved values, accounting for vertical photon transport: quantification and correction of the resulting bias in droplet concentration and liquid water path retrievals. Atmospheric Measurement Techniques, 2018, 11, 4273-4289.	3.1	10
16	Recent multivariate changes in the North Atlantic climate system, with a focus on 2005â€“2016. International Journal of Climatology, 2018, 38, 5050-5076.	3.5	34
17	Large simulated radiative effects of smoke in the south-east Atlantic. Atmospheric Chemistry and Physics, 2018, 18, 15261-15289.	4.9	61
18	Aerosol midlatitude cyclone indirect effects in observations and high-resolution simulations. Atmospheric Chemistry and Physics, 2018, 18, 5821-5846.	4.9	28

#	Article	IF	Citations
19	The global aerosolâ€cloud first indirect effect estimated using MODIS, MERRA, and AeroCom. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1779-1796.	3.3	81
20	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	27.8	191
21	The relative importance of macrophysical and cloud albedo changes for aerosol-induced radiative effects in closed-cell stratocumulus: insight from the modelling of a case study. Atmospheric Chemistry and Physics, 2017, 17, 5155-5183.	4.9	51
22	Mixedâ€phase cloud physics and Southern Ocean cloud feedback in climate models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9539-9554.	3.3	120
23	Natural aerosols explain seasonal and spatial patterns of Southern Ocean cloud albedo. Science Advances, 2015, 1, e1500157.	10.3	144
24	Observed Southern Ocean Cloud Properties and Shortwave Reflection. Part II: Phase Changes and Low Cloud Feedback*. Journal of Climate, 2014, 27, 8858-8868.	3.2	61
25	Observed Southern Ocean Cloud Properties and Shortwave Reflection. Part I: Calculation of SW Flux from Observed Cloud Properties*. Journal of Climate, 2014, 27, 8836-8857.	3.2	47
26	The effect of solar zenith angle on MODIS cloud optical and microphysical retrievals within marine liquid water clouds. Atmospheric Chemistry and Physics, 2014, 14, 7291-7321.	4.9	139
27	Downslope fÃ¶hn winds over the Antarctic Peninsula and their effect on the Larsen ice shelves. Atmospheric Chemistry and Physics, 2014, 14, 9481-9509.	4.9	33
28	Long-term measurements of cloud droplet concentrations and aerosolâ€“cloud interactions in continental boundary layer clouds. Tellus, Series B: Chemical and Physical Meteorology, 2013, 65, 20138.	1.6	30
29	In-situ aircraft observations of ice concentrations within clouds over the Antarctic Peninsula and Larsen Ice Shelf. Atmospheric Chemistry and Physics, 2012, 12, 11275-11294.	4.9	39
30	Tropospheric clouds in Antarctica. Reviews of Geophysics, 2012, 50, .	23.0	124
31	A study of the effect of overshooting deep convection on the water content of the TTL and lower stratosphere from Cloud Resolving Model simulations. Atmospheric Chemistry and Physics, 2007, 7, 4977-5002.	4.9	77