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	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	27.8	191
2	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
3	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
4	Natural aerosols explain seasonal and spatial patterns of Southern Ocean cloud albedo. Science Advances, 2015, 1, e1500157.	10.3	144
5	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
6	Tropospheric clouds in Antarctica. Reviews of Geophysics, 2012, 50, .	23.0	124
7	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
8	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
9	Description and evaluation of aerosol in UKESM1 and HadGEM3-GC3.1 CMIP6 historical simulations. Geoscientific Model Development, 2020, 13, 6383-6423.	3.6	83
10	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
11	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
12	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
13	Large simulated radiative effects of smoke in the south-east Atlantic. Atmospheric Chemistry and Physics, 2018, 18, 15261-15289.	4.9	61
14	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
15	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
16	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
17	Predicting decadal trends in cloud droplet number concentration using reanalysis and satellite data. Atmospheric Chemistry and Physics, 2018, 18, 2035-2047.	4.9	44
18	Opportunistic experiments to constrain aerosol effective radiative forcing. Atmospheric Chemistry and Physics, 2022, 22, 641-674.	4.9	44

#	Article	IF	Citations
19	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
20	Assessment of aerosolâ€“cloudâ€“radiation correlations in satellite observations, climate models and reanalysis. Climate Dynamics, 2019, 52, 4371-4392.	3.8	35
21	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
22	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
23	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
24	Aerosol midlatitude cyclone indirect effects in observations and high-resolution simulations. Atmospheric Chemistry and Physics, 2018, 18, 5821-5846.	4.9	28
25	The value of remote marine aerosol measurements for constraining radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2020, 20, 10063-10072.	4.9	27
26	Untangling causality in midlatitude aerosolâ€“cloud adjustments. Atmospheric Chemistry and Physics, 2020, 20, 4085-4103.	4.9	25
27	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
28	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
29	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
30	The decomposition of cloudâ€“aerosol forcing in the UK Earth System Model (UKESM1). Atmospheric Chemistry and Physics, 2020, 20, 15681-15724.	4.9	7
31	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