

Andrew Orr

List of Publications by Year in descending order

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49
papers

2,674
citations

218677

26
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

2877
citing authors

#	ARTICLE	IF	CITATIONS
1	Brief communication: Impact of common ice mask in surface mass balance estimates over the Antarctic ice sheet. <i>Cryosphere</i> , 2022, 16, 711-718.	3.9	9
2	Knowledge Priorities on Climate Change and Water in the Upper Indus Basin: A Horizon Scanning Exercise to Identify the Top 100 Research Questions in Social and Natural Sciences. <i>Earth's Future</i> , 2022, 10, .	6.3	14
3	A 20â€Year Study of Melt Processes Over Larsen C Ice Shelf Using a Highâ€Resolution Regional Atmospheric Model: 1. Model Configuration and Validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	2
4	A 20â€Year Study of Melt Processes Over Larsen C Ice Shelf Using a Highâ€Resolution Regional Atmospheric Model: 2. Drivers of Surface Melting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	1
5	Clouds and Radiation Processes in Regional Climate Models Evaluated Using Observations Over the Iceâ€free Arctic Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033904.	3.3	22
6	Meteorological impacts of a novel debrisâ€covered glacier category in a regional climate model across a Himalayan catchment. <i>Atmospheric Science Letters</i> , 2021, 22, e1018.	1.9	2
7	Is our dynamical understanding of the circulation changes associated with the Antarctic ozone hole sensitive to the choice of reanalysis dataset?. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7451-7472.	4.9	3
8	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000702.	23.0	49
9	Comparison of kilometre and subâ€kilometre scale simulations of a foehn wind event over the Larsen C Ice Shelf, Antarctic Peninsula using the Met Office Unified Model (<scp>MetUM</scp>). <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 3472-3492.	2.7	9
10	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	3.9	55
11	The Energy and Mass Balance of Peruvian Glaciers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034911.	3.3	11
12	Summertime cloud phase strongly influences surface melting on the Larsen C ice shelf, Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1575-1589.	2.7	23
13	Nonâ€additive response of the highâ€latitude Southern Hemisphere climate to aerosol forcing in a climate model with interactive chemistry. <i>Atmospheric Science Letters</i> , 2020, 21, e1004.	1.9	2
14	Confronting Arctic Troposphere, Clouds, and Surface Energy Budget Representations in Regional Climate Models With Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031783.	3.3	26
15	Polar stratospheric clouds initiated by mountain waves in a global chemistryâ€climate model: a missing piece in fully modelling polar stratospheric ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12483-12497.	4.9	8
16	Lateral meltwater transfer across an Antarctic ice shelf. <i>Cryosphere</i> , 2020, 14, 2313-2330.	3.9	26
17	Bias Correction of Highâ€Resolution Regional Climate Model Precipitation Output Gives the Best Estimates of Precipitation in Himalayan Catchments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 14220-14239.	3.3	30
18	Summer Drivers of Atmospheric Variability Affecting Ice Shelf Thinning in the Amundsen Sea Embayment, West Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 4124-4133.	4.0	32

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19	A climatology of polar stratospheric cloud composition between 2002 and 2012 based on MIPAS/Envisat observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5089-5113.	4.9	38
20	Dynamical Drivers of the Local Wind Regime in a Himalayan Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,186.	3.3	16
21	The Springtime Influence of Natural Tropical Pacific Variability on the Surface Climate of the Ross Ice Shelf, West Antarctica: Implications for Ice Shelf Thinning. <i>Scientific Reports</i> , 2018, 8, 11983.	3.3	8
22	Intense Winter Surface Melt on an Antarctic Ice Shelf. <i>Geophysical Research Letters</i> , 2018, 45, 7615-7623.	4.0	65
23	Atmosphere-ocean-ice interactions in the Amundsen Sea Embayment, West Antarctica. <i>Reviews of Geophysics</i> , 2017, 55, 235-276.	23.0	92
24	Sensitivity of simulated summer monsoonal precipitation in Langtang Valley, Himalaya, to cloud microphysics schemes in WRF. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6298-6318.	3.3	49
25	The impacts of El Niño on the observed sea ice budget of West Antarctica. <i>Geophysical Research Letters</i> , 2017, 44, 6200-6208.	4.0	27
26	The Impact of Fresh Winds on Surface Energy Balance During the 2010-2011 Melt Season Over Larsen C Ice Shelf, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,062.	3.3	39
27	Does Strong Tropospheric Forcing Cause Large-Amplitude Mesospheric Gravity Waves? A DEEPWAVE Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,422.	3.3	33
28	Observations and fine-scale model simulations of gravity waves over Davis, East Antarctica (69°S). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,422.	3.3	20
29	A decadal satellite record of gravity wave activity in the lower stratosphere to study polar stratospheric cloud formation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2901-2920.	4.9	48
30	Evaluation of four global reanalysis products using in situ observations in the Amundsen Sea Embayment, Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6240-6257.	3.3	70
31	An assessment of the Polar Weather Research and Forecasting (WRF) model representation of near-surface meteorological variables over West Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1532-1548.	3.3	26
32	Foehn warming distributions in nonlinear and linear flow regimes: a focus on the Antarctic Peninsula. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 618-631.	2.7	63
33	Future circulation changes off West Antarctica: Sensitivity of the Amundsen Sea Low to projected anthropogenic forcing. <i>Geophysical Research Letters</i> , 2016, 43, 367-376.	4.0	59
34	Foehn jets over the Larsen C Ice Shelf, Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 698-713.	2.7	81
35	Validation of the summertime surface energy budget of Larsen C Ice Shelf (Antarctica) as represented in three high-resolution atmospheric models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1335-1347.	3.3	59
36	Inclusion of mountain-wave-induced cooling for the formation of PSCs over the Antarctic Peninsula in a chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1071-1086.	4.9	27

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37	Met Office Unified Model high-resolution simulations of a strong wind event in Antarctica. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2287-2297.	2.7	46
38	The Influence of the Amundsen-Bellingshausen Seas Low on the Climate of West Antarctica and Its Representation in Coupled Climate Model Simulations. Journal of Climate, 2013, 26, 6633-6648.	3.2	222
39	The Amundsen Sea low. International Journal of Climatology, 2013, 33, 1818-1829.	3.5	203
40	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. Geophysical Research Letters, 2009, 36, .	4.0	410
41	Strong wind events in the Antarctic. Journal of Geophysical Research, 2009, 114, .	3.3	55
42	Characteristics of Summer Airflow over the Antarctic Peninsula in Response to Recent Strengthening of Westerly Circumpolar Winds. Journals of the Atmospheric Sciences, 2008, 65, 1396-1413.	1.7	84
43	The Relationship between the Southern Hemisphere Annular Mode and Antarctic Peninsula Summer Temperatures: Analysis of a High-Resolution Model Climatology. Journal of Climate, 2008, 21, 1649-1668.	3.2	56
44	The Impact of a Changing Southern Hemisphere Annular Mode on Antarctic Peninsula Summer Temperatures. Journal of Climate, 2006, 19, 5388-5404.	3.2	295
45	Coriolis effects on wind jets and cloudiness along coasts. Weather, 2005, 60, 291-299.	0.7	21
46	Characteristics of Stable Flows over Southern Greenland. Pure and Applied Geophysics, 2005, 162, 1747-1778.	1.9	10
47	Effects Of Changing Surface Heat Flux On Atmospheric Boundary-Layer Flow Over Flat Terrain. Boundary-Layer Meteorology, 2005, 116, 331-361.	2.3	27
48	A "low-level" explanation for the recent large warming trend over the western Antarctic Peninsula involving blocked winds and changes in zonal circulation. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	57
49	Coriolis effects in mesoscale flows with sharp changes in surface conditions. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2703-2731.	2.7	38