

Andrew Orr

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,674
citations

218381

26
h-index

197535

49
g-index

53
all docs

53
docs citations

53
times ranked

2877
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	410
2	The Impact of a Changing Southern Hemisphere Annular Mode on Antarctic Peninsula Summer Temperatures. <i>Journal of Climate</i> , 2006, 19, 5388-5404.	1.2	295
3	The Influence of the Amundsen-Bellingshausen Seas Low on the Climate of West Antarctica and Its Representation in Coupled Climate Model Simulations. <i>Journal of Climate</i> , 2013, 26, 6633-6648.	1.2	222
4	The Amundsen Sea low. <i>International Journal of Climatology</i> , 2013, 33, 1818-1829.	1.5	203
5	Atmosphere-ocean-ice interactions in the Amundsen Sea Embayment, West Antarctica. <i>Reviews of Geophysics</i> , 2017, 55, 235-276.	9.0	92
6	Characteristics of Summer Airflow over the Antarctic Peninsula in Response to Recent Strengthening of Westerly Circumpolar Winds. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1396-1413.	0.6	84
7	Foehn jets over the Larsen C Ice Shelf, Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 698-713.	1.0	81
8	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.	1.2	70
9	Intense Winter Surface Melt on an Antarctic Ice Shelf. <i>Geophysical Research Letters</i> , 2018, 45, 7615-7623.	1.5	65
10	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.	1.0	63
11	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.	1.2	59
12	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.	1.5	59
13	A "low-level" explanation for the recent large warming trend over the western Antarctic Peninsula involving blocked winds and changes in zonal circulation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	57
14	The Relationship between the Southern Hemisphere Annular Mode and Antarctic Peninsula Summer Temperatures: Analysis of a High-Resolution Model Climatology. <i>Journal of Climate</i> , 2008, 21, 1649-1668.	1.2	56
15	Strong wind events in the Antarctic. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
16	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	1.5	55
17	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.	1.2	49
18	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000702.	9.0	49

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19	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.	1.9	48
20	Met Office Unified Model high-resolution simulations of a strong wind event in Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2287-2297.	1.0	46
21	The Impact of Föhn 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.	1.2	39
22	Coriolis effects in mesoscale flows with sharp changes in surface conditions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2703-2731.	1.0	38
23	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.	1.9	38
24	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.	1.2	33
25	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.	1.5	32
26	Bias Correction of High-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.	1.2	30
27	Effects Of Changing Surface Heat Flux On Atmospheric Boundary-Layer Flow Over Flat Terrain. <i>Boundary-Layer Meteorology</i> , 2005, 116, 331-361.	1.2	27
28	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.	1.9	27
29	The impacts of El Niño on the observed sea ice budget of West Antarctica. <i>Geophysical Research Letters</i> , 2017, 44, 6200-6208.	1.5	27
30	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.	1.2	26
31	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.	1.2	26
32	Lateral meltwater transfer across an Antarctic ice shelf. <i>Cryosphere</i> , 2020, 14, 2313-2330.	1.5	26
33	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.	1.0	23
34	Clouds and Radiation Processes in Regional Climate Models Evaluated Using Observations Over the Ice-free Arctic Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033904.	1.2	22
35	Coriolis effects on wind jets and cloudiness along coasts. <i>Weather</i> , 2005, 60, 291-299.	0.6	21
36	Observations and fine-scale model simulations of gravity waves over Davis, East Antarctica (69°S). <i>Tellus</i> , 2010, 62, 120-130.	1.2	20

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37	Dynamical Drivers of the Local Wind Regime in a Himalayan Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,186.	1.2	16
38	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, .	2.4	14
39	The Energy and Mass Balance of Peruvian Glaciers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034911.	1.2	11
40	Characteristics of Stable Flows over Southern Greenland. <i>Pure and Applied Geophysics</i> , 2005, 162, 1747-1778.	0.8	10
41	Comparison of kilometre and sub-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.	1.0	9
42	Brief communication: Impact of common ice mask in surface mass balance estimates over the Antarctic ice sheet. <i>Cryosphere</i> , 2022, 16, 711-718.	1.5	9
43	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.	1.6	8
44	Polar stratospheric clouds initiated by mountain waves in a global chemistry-climate model: a missing piece in fully modelling polar stratospheric ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12483-12497.	1.9	8
45	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.	1.9	3
46	Non-additive response of the high-latitude Southern Hemisphere climate to aerosol forcing in a climate model with interactive chemistry. <i>Atmospheric Science Letters</i> , 2020, 21, e1004.	0.8	2
47	Meteorological impacts of a novel debris-covered glacier category in a regional climate model across a Himalayan catchment. <i>Atmospheric Science Letters</i> , 2021, 22, e1018.	0.8	2
48	A 20-Year Study of Melt Processes Over Larsen C Ice Shelf Using a High-Resolution Regional Atmospheric Model: 1. Model Configuration and Validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	2
49	A 20-Year Study of Melt Processes Over Larsen C Ice Shelf Using a High-Resolution Regional Atmospheric Model: 2. Drivers of Surface Melting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	1