Andrew N. Ross

List of Publications by Year
in descending order

50 papers	1,096 citations	430874 18 h-index	434195 31 g-index
50 all docs	50 docs citations	50 times ranked	1370 citing authors

#	Article	IF	Citations
1	Surface ablation and its drivers along a westâ€“east transect of the Southern Patagonia Icefield. Journal of Glaciology, 2022, 68, 305-318.	2.2	2
2	Characterising the shape, size, and orientation of cloudâ€feeding coherent boundaryâ€layer structures. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 499-519.	2.7	5
3	Airflow modelling predicts seabird breeding habitat across islands. Ecography, 2022, 2022, 05733.	4.5	3
4	Understanding mechanisms for trends in Sahelian squall lines: Roles of thermodynamics and shear. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 983-1006.	2.7	5
5	Stratospheric gravity waves over the mountainous island of South Georgia: testing a high-resolution dynamical model with 3-D satellite observations and radiosondes. Atmospheric Chemistry and Physics, 2021, 21, 7695-7722.	4.9	7
6	Is a more physical representation of aerosol activation needed for simulations of fog?. Atmospheric Chemistry and Physics, 2021, 21, 7271-7292.	4.9	10
7	Projected increases in surface melt and ice loss for the Northern and Southern Patagonian Icefields. Scientific Reports, 2021, 11, 16847.	3.3	10
8	The impact of weak environmental steering flow on tropical cyclone track predictability. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4122-4142.	2.7	2
9	Boundary-Layer Flow Over Complex Topography. Boundary-Layer Meteorology, 2020, 177, 247-313.	2.3	58
10	Sampling Errors in Observed Gravity Wave Momentum Fluxes from Vertical and Tilted Profiles. Atmosphere, 2020, 11, 57.	2.3	2
11	Glacial Aerodynamic Roughness Estimates: Uncertainty, Sensitivity, and Precision in Field Measurements. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005167.	2.8	9
12	The influence of fÃ¶hn winds on annual and seasonal surface melt on the Larsen C Ice Shelf, Antarctica. Cryosphere, 2020, 14, 4165-4180.	3.9	14
13	How important are aerosolâ€“fog interactions for the successful modelling of nocturnal radiation fog?. Weather, 2019, 74, 237-243.	0.7	21
14	Assessing Snow Accumulation Patterns and Changes on the Patagonian Icefields. Frontiers in Environmental Science, 2019, 7, .	3.3	15
15	A caseâ€study of coldâ€air pool evolution in hilly terrain using field measurements from COLPEX. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1290-1306.	2.7	4
16	Air Temperature Characteristics, Distribution, and Impact on Modeled Ablation for the South Patagonia Icefield. Journal of Geophysical Research D: Atmospheres, 2019, 124, 907-925.	3.3	22
17	Wind prevents cliff-breeding birds from accessing nests through loss of flight control. ELife, 2019, 8, .	6.0	21
18	The spatial distribution and temporal variability of fÃ¶hn winds over the Larsen C ice shelf, Antarctica. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 1169-1178.	2.7	37

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19	Current Challenges in Orographic Flow Dynamics: Turbulent Exchange Due to Low-Level Gravity-Wave Processes. Atmosphere, 2018, 9, 361.	2.3	21
20	A short climatological study of cold air pools and drainage flows in small valleys. Weather, 2018, 73, 256-262.	0.7	10
21	The South Georgia Wave Experiment: A Means for Improved Analysis of Gravity Waves and Low-Level Wind Impacts Generated from Mountainous Islands. Bulletin of the American Meteorological Society, 2018, 99, 1027-1040.	3.3	13
22	Evaluating morphological estimates of the aerodynamic roughness of debris covered glacier ice. Earth Surface Processes and Landforms, 2017, 42, 2541-2553.	2.5	17
23	Does highâ€resolution modelling improve the spatial analysis of fÃ¶hn flow over the Larsen C Ice Shelf?. Weather, 2017, 72, 192-196.	0.7	20
24	Moving in a moving medium: new perspectives on flight. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150382.	4.0	25
25	Modelling Canopy Flows over Complex Terrain. Boundary-Layer Meteorology, 2016, 161, 417-437.	2.3	16
26	A process-based evaluation of dust-emitting winds in the CMIP5 simulation of HadGEM2-ES. Climate Dynamics, 2016, 46, 1107-1130.	3.8	23
27	Firstâ€order turbulence closure for modelling complex canopy flows. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2907-2916.	2.7	45
28	Field Observations of Canopy Flows over Complex Terrain. Boundary-Layer Meteorology, 2015, 156, 231-251.	2.3	20
29	The Impact of Source Distribution on Scalar Transport over Forested Hills. Boundary-Layer Meteorology, 2015, 156, 211-230.	2.3	14
30	A new continuous planar fit method for calculating fluxes in complex, forested terrain. Atmospheric Science Letters, 2015, 16, 445-452.	1.9	11
31	Assessment of valley cold pools and clouds in a very high-resolution numerical weather prediction model. Geoscientific Model Development, 2015, 8, 3105-3117.	3.6	16
32	Performance of the cutâ€cell method of representing orography in idealized simulations. Atmospheric Science Letters, 2014, 15, 44-49.	1.9	17
33	Coldâ€pool formation in a narrow valley. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 699-714.	2.7	41
34	Flow Over Partially Forested Ridges. Boundary-Layer Meteorology, 2013, 146, 375-392.	2.3	18
35	Simulating Spatial Dynamics and Processes in a Retail Gasoline Market: An Agentâ€Based Modeling Approach. Transactions in GIS, 2013, 17, 661-682.	2.3	6
36	GEWEX Cloud System Study (GCSS) cirrus cloud working group: development of an observation-based case study for model evaluation. Geoscientific Model Development, 2012, 5, 829-843.	3.6	5

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37	Boundaryâ€layer flow within and above a forest canopy of variable density. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1259-1272.	2.7	17
38	Scalar Transport over Forested Hills. Boundary-Layer Meteorology, 2011, 141, 179-199.	2.3	26
39	COLPEX: Field and Numerical Studies over a Region of Small Hills. Bulletin of the American Meteorological Society, 2011, 92, 1636-1650.	3.3	68
40	Large-eddy Simulations of Flow Over Forested Ridges. Boundary-Layer Meteorology, 2008, 128, 59-76.	2.3	39
41	The impact of mountain wakes on the drag exerted on downstream mountains. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 677-687.	2.7	4
42	Wind direction effects on orographic drag. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 689-701.	2.7	14
43	Observations of mesoscale and boundary-layer scale circulations affecting dust transport and uplift over the Sahara. Atmospheric Chemistry and Physics, 2008, 8, 6979-6993.	4.9	83
44	Gap flows: Results from the Mesoscale Alpine Programme. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 881-896.	2.7	76
45	Axisymmetric gravity currents on a cone. Journal of Fluid Mechanics, 2006, 565, 227.	3.4	22
46	Neutral turbulent flow over forested hills. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 1841-1862.	2.7	55
47	Simple Models of the Role of Surface Fluxes in Convective Cold Pool Evolution. Journals of the Atmospheric Sciences, 2004, 61, 1582-1595.	1.7	37
48	A comparison of wind-tunnel experiments and numerical simulations of neutral and stratified flow over a hill. Boundary-Layer Meteorology, 2004, 113, 427-459.	2.3	5
49	Numerical simulations of stably stratified flow through a mountain pass. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 97-115.	2.7	15
50	A study of three-dimensional gravity currents on a uniform slope. Journal of Fluid Mechanics, 2002, 453, 239-261.	3.4	50