

Andrew N. Ross

List of Publications by Year in descending order

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Version: 2024-02-01

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	Observations of mesoscale and boundary-layer scale circulations affecting dust transport and uplift over the Sahara. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6979-6993.	4.9	83
2	Gap flows: Results from the Mesoscale Alpine Programme. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 881-896.	2.7	76
3	COLPEX: Field and Numerical Studies over a Region of Small Hills. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 1636-1650.	3.3	68
4	Boundary-Layer Flow Over Complex Topography. <i>Boundary-Layer Meteorology</i> , 2020, 177, 247-313.	2.3	58
5	Neutral turbulent flow over forested hills. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 1841-1862.	2.7	55
6	A study of three-dimensional gravity currents on a uniform slope. <i>Journal of Fluid Mechanics</i> , 2002, 453, 239-261.	3.4	50
7	First-order turbulence closure for modelling complex canopy flows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2907-2916.	2.7	45
8	Cold-pool formation in a narrow valley. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 699-714.	2.7	41
9	Large-eddy Simulations of Flow Over Forested Ridges. <i>Boundary-Layer Meteorology</i> , 2008, 128, 59-76.	2.3	39
10	Simple Models of the Role of Surface Fluxes in Convective Cold Pool Evolution. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1582-1595.	1.7	37
11	The spatial distribution and temporal variability of förhj winds over the Larsen C ice shelf, Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1169-1178.	2.7	37
12	Scalar Transport over Forested Hills. <i>Boundary-Layer Meteorology</i> , 2011, 141, 179-199.	2.3	26
13	Moving in a moving medium: new perspectives on flight. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150382.	4.0	25
14	A process-based evaluation of dust-emitting winds in the CMIP5 simulation of HadGEM2-ES. <i>Climate Dynamics</i> , 2016, 46, 1107-1130.	3.8	23
15	Axisymmetric gravity currents on a cone. <i>Journal of Fluid Mechanics</i> , 2006, 565, 227.	3.4	22
16	Air Temperature Characteristics, Distribution, and Impact on Modeled Ablation for the South Patagonia Icefield. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 907-925.	3.3	22
17	Current Challenges in Orographic Flow Dynamics: Turbulent Exchange Due to Low-Level Gravity-Wave Processes. <i>Atmosphere</i> , 2018, 9, 361.	2.3	21
18	How important are aerosol-fog interactions for the successful modelling of nocturnal radiation fog?. <i>Weather</i> , 2019, 74, 237-243.	0.7	21

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19	Wind prevents cliff-breeding birds from accessing nests through loss of flight control. <i>ELife</i> , 2019, 8, .	6.0	21
20	Field Observations of Canopy Flows over Complex Terrain. <i>Boundary-Layer Meteorology</i> , 2015, 156, 231-251.	2.3	20
21	Does high-resolution modelling improve the spatial analysis of fjord flow over the Larsen C Ice Shelf?. <i>Weather</i> , 2017, 72, 192-196.	0.7	20
22	Flow Over Partially Forested Ridges. <i>Boundary-Layer Meteorology</i> , 2013, 146, 375-392.	2.3	18
23	Boundary-layer flow within and above a forest canopy of variable density. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1259-1272.	2.7	17
24	Performance of the cut-cell method of representing orography in idealized simulations. <i>Atmospheric Science Letters</i> , 2014, 15, 44-49.	1.9	17
25	Evaluating morphological estimates of the aerodynamic roughness of debris covered glacier ice. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2541-2553.	2.5	17
26	Modelling Canopy Flows over Complex Terrain. <i>Boundary-Layer Meteorology</i> , 2016, 161, 417-437.	2.3	16
27	Assessment of valley cold pools and clouds in a very high-resolution numerical weather prediction model. <i>Geoscientific Model Development</i> , 2015, 8, 3105-3117.	3.6	16
28	Numerical simulations of stably stratified flow through a mountain pass. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 97-115.	2.7	15
29	Assessing Snow Accumulation Patterns and Changes on the Patagonian Icefields. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	15
30	Wind direction effects on orographic drag. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 689-701.	2.7	14
31	The Impact of Source Distribution on Scalar Transport over Forested Hills. <i>Boundary-Layer Meteorology</i> , 2015, 156, 211-230.	2.3	14
32	The influence of fjord winds on annual and seasonal surface melt on the Larsen C Ice Shelf, Antarctica. <i>Cryosphere</i> , 2020, 14, 4165-4180.	3.9	14
33	The South Georgia Wave Experiment: A Means for Improved Analysis of Gravity Waves and Low-Level Wind Impacts Generated from Mountainous Islands. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1027-1040.	3.3	13
34	A new continuous planar fit method for calculating fluxes in complex, forested terrain. <i>Atmospheric Science Letters</i> , 2015, 16, 445-452.	1.9	11
35	A short climatological study of cold air pools and drainage flows in small valleys. <i>Weather</i> , 2018, 73, 256-262.	0.7	10
36	Is a more physical representation of aerosol activation needed for simulations of fog?. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7271-7292.	4.9	10

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37	Projected increases in surface melt and ice loss for the Northern and Southern Patagonian Icefields. <i>Scientific Reports</i> , 2021, 11, 16847.	3.3	10
38	Glacial Aerodynamic Roughness Estimates: Uncertainty, Sensitivity, and Precision in Field Measurements. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005167.	2.8	9
39	Stratospheric gravity waves over the mountainous island of South Georgia: testing a high-resolution dynamical model with 3-D satellite observations and radiosondes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7695-7722.	4.9	7
40	Simulating Spatial Dynamics and Processes in a Retail Gasoline Market: An Agent-Based Modeling Approach. <i>Transactions in GIS</i> , 2013, 17, 661-682.	2.3	6
41	GEWEX Cloud System Study (GCSS) cirrus cloud working group: development of an observation-based case study for model evaluation. <i>Geoscientific Model Development</i> , 2012, 5, 829-843.	3.6	5
42	Understanding mechanisms for trends in Sahelian squall lines: Roles of thermodynamics and shear. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 983-1006.	2.7	5
43	Characterising the shape, size, and orientation of cloud-feeding coherent boundary-layer structures. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 499-519.	2.7	5
44	A comparison of wind-tunnel experiments and numerical simulations of neutral and stratified flow over a hill. <i>Boundary-Layer Meteorology</i> , 2004, 113, 427-459.	2.3	5
45	The impact of mountain wakes on the drag exerted on downstream mountains. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 677-687.	2.7	4
46	A case-study of cold-air pool evolution in hilly terrain using field measurements from COLPEX. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1290-1306.	2.7	4
47	Airflow modelling predicts seabird breeding habitat across islands. <i>Ecography</i> , 2022, 2022, 05733.	4.5	3
48	Sampling Errors in Observed Gravity Wave Momentum Fluxes from Vertical and Tilted Profiles. <i>Atmosphere</i> , 2020, 11, 57.	2.3	2
49	Surface ablation and its drivers along a west-east transect of the Southern Patagonia Icefield. <i>Journal of Glaciology</i> , 2022, 68, 305-318.	2.2	2
50	The impact of weak environmental steering flow on tropical cyclone track predictability. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 4122-4142.	2.7	2