

David H Bromwich

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,122
citations

136885

32
h-index

123376

61
g-index

65
all docs

65
docs citations

65
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	Decadal Variability of the ENSO Teleconnection to the High-Latitude South Pacific Governed by Coupling with the Southern Annular Mode*. <i>Journal of Climate</i> , 2006, 19, 979-997.	1.2	334
2	Central West Antarctica among the most rapidly warming regions on Earth. <i>Nature Geoscience</i> , 2013, 6, 139-145.	5.4	328
3	An Assessment of Precipitation Changes over Antarctica and the Southern Ocean since 1989 in Contemporary Global Reanalyses*. <i>Journal of Climate</i> , 2011, 24, 4189-4209.	1.2	241
4	A tropospheric assessment of the ERA-40, NCEP, and JRA-25 global reanalyses in the polar regions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	236
5	Advancing Polar Prediction Capabilities on Daily to Seasonal Time Scales. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1631-1647.	1.7	199
6	Development and Testing of Polar Weather Research and Forecasting (WRF) Model. Part I: Greenland Ice Sheet Meteorology*. <i>Monthly Weather Review</i> , 2008, 136, 1971-1989.	0.5	190
7	Greenland ice sheet surface mass balance 1991â€“2000: Application of Polar MM5 mesoscale model and in situ data. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	143
8	Comprehensive evaluation of polar weather research and forecasting model performance in the Antarctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 274-292.	1.2	128
9	Development and testing of Polar Weather Research and Forecasting model: 2. Arctic Ocean. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	125
10	A comparison of the regional Arctic System Reanalysis and the global ERA-Interim Reanalysis for the Arctic. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 644-658.	1.0	125
11	Tropospheric clouds in Antarctica. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	124
12	Real-Time Mesoscale Modeling Over Antarctica: The Antarctic Mesoscale Prediction System*. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 1533-1546.	1.7	121
13	Development and Testing of Polar WRF. Part III: Arctic Land*. <i>Journal of Climate</i> , 2011, 24, 26-48.	1.2	121
14	A Decade of Antarctic Science Support Through Amps. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1699-1712.	1.7	117
15	January 2016 extensive summer melt in West Antarctica favoured by strong El Niño. <i>Nature Communications</i> , 2017, 8, 15799.	5.8	116
16	A spatially calibrated model of annual accumulation rate on the Greenland Ice Sheet (1958â€“2007). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	113
17	Real-Time Forecasting for the Antarctic: An Evaluation of the Antarctic Mesoscale Prediction System (AMPS)*. <i>Monthly Weather Review</i> , 2005, 133, 579-603.	0.5	99
18	The Climate of the McMurdo, Antarctica, Region as Represented by One Year of Forecasts from the Antarctic Mesoscale Prediction System*. <i>Journal of Climate</i> , 2005, 18, 1174-1189.	1.2	98

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19	Recent variability and trends of Antarctic near-surface temperature. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	94
20	Sea Ice Enhancements to Polar WRF*. <i>Monthly Weather Review</i> , 2015, 143, 2363-2385.	0.5	69
21	Evaluation of the NCEP-NCAR and ECMWF 15- and 40-Yr Reanalyses Using Rawinsonde Data from Two Independent Arctic Field Experiments*. <i>Monthly Weather Review</i> , 2005, 133, 3562-3578.	0.5	67
22	Precipitation Changes in High Southern Latitudes from Global Reanalyses: A Cautionary Tale. <i>Surveys in Geophysics</i> , 2011, 32, 475-494.	2.1	62
23	Meteorological Drivers and Large-Scale Climate Forcing of West Antarctic Surface Melt. <i>Journal of Climate</i> , 2019, 32, 665-684.	1.2	62
24	Evaluation of Polar WRF forecasts on the Arctic System Reanalysis domain: Surface and upper air analysis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	59
25	Greenland Ice Sheet Mass Balance Reconstruction. Part I: Net Snow Accumulation (1600-2009). <i>Journal of Climate</i> , 2013, 26, 3919-3934.	1.2	49
26	Recent Near-surface Temperature Trends in the Antarctic Peninsula from Observed, Reanalysis and Regional Climate Model Data. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 477-493.	1.9	48
27	Evaluation of Polar WRF forecasts on the Arctic System Reanalysis Domain: 2. Atmospheric hydrologic cycle. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
28	Simulation of Late Summer Arctic Clouds during ASCOS with Polar WRF. <i>Monthly Weather Review</i> , 2017, 145, 521-541.	0.5	42
29	Regional climate variability driven by foehn winds in the McMurdo Dry Valleys, Antarctica. <i>International Journal of Climatology</i> , 2013, 33, 945-958.	1.5	41
30	Dynamics of the Foehn Mechanism in the McMurdo Dry Valleys of Antarctica from Polar WRF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1615-1631.	1.0	41
31	Twentieth century Antarctic air temperature and snowfall simulations by IPCC climate models. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	40
32	A Dynamical Investigation of the May 2004 McMurdo Antarctica Severe Wind Event Using AMPS*. <i>Monthly Weather Review</i> , 2008, 136, 7-26.	0.5	33
33	Climatological aspects of cyclogenesis near Ad�elie Land Antarctica. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 63, 921.	0.8	32
34	Arctic System Reanalysis improvements in topographically forced winds near Greenland. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2033-2045.	1.0	32
35	Microphysics of summer clouds in central West Antarctica simulated by the Polar Weather Research and Forecasting Model (WRF) and the Antarctic Mesoscale Prediction System (AMPS). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12431-12454.	1.9	32
36	Cloud Influence on ERA5 and AMPS Surface Downwelling Longwave Radiation Biases in West Antarctica. <i>Journal of Climate</i> , 2019, 32, 7935-7949.	1.2	30

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37	A twentieth century perspective on summer Antarctic pressure change and variability and contributions from tropical SSTs and ozone depletion. <i>Geophysical Research Letters</i> , 2017, 44, 9918-9927.	1.5	25
38	The Year of Polar Prediction in the Southern Hemisphere (YOPP-SH). <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1653-E1676.	1.7	24
39	Austral summer foehn winds over the McMurdo dry valleys of Antarctica from Polar WRF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1825-1837.	1.0	23
40	An Impact Assessment of GPS Radio Occultation Data on Prediction of a Rapidly Developing Cyclone over the Southern Ocean*. <i>Monthly Weather Review</i> , 2014, 142, 4187-4206.	0.5	21
41	Evaluation of the AMPS Boundary Layer Simulations on the Ross Ice Shelf with Tower Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 2349-2367.	0.6	21
42	A Self-Organizing-Map-Based Evaluation of the Antarctic Mesoscale Prediction System Using Observations from a 30-m Instrumented Tower on the Ross Ice Shelf, Antarctica. <i>Weather and Forecasting</i> , 2017, 32, 223-242.	0.5	19
43	Performance of Weather Forecast Models in the Rescue of Dr. Ronald Shemenski from the South Pole in April 2001*. <i>Weather and Forecasting</i> , 2003, 18, 142-160.	0.5	17
44	West Antarctic surface melt event of January 2016 facilitated by foehn warming. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 687-704.	1.0	16
45	Assimilation of GPS Radio Occultation Refractivity Data from CHAMP and SAC-C Missions over High Southern Latitudes with MM5 4DVAR. <i>Monthly Weather Review</i> , 2008, 136, 2923-2944.	0.5	15
46	Contribution of Atmospheric Circulation to Inception of the Laurentide Ice Sheet at 116 kyr BP*. <i>Journal of Climate</i> , 2009, 22, 39-57.	1.2	15
47	Global atmospheric responses to Antarctic forcing. <i>Annals of Glaciology</i> , 1998, 27, 521-527.	2.8	14
48	A pole to pole west Pacific atmospheric teleconnection during August. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 8-1.	3.3	11
49	On the role of the NAO in the recent northeastern Atlantic Arctic warming. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	11
50	Major surface melting over the Ross Ice Shelf part I: Foehn effect. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 2874-2894.	1.0	10
51	Major surface melting over the Ross Ice Shelf part II: Surface energy balance. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 2895-2916.	1.0	8
52	Reply to 'How significant is West Antarctic warming?'. <i>Nature Geoscience</i> , 2014, 7, 247-247.	5.4	7
53	Impacts of initial conditions and model configuration on simulations of polar lows near Svalbard using Polar WRF with 3DVAR. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 3806-3834.	1.0	5
54	Predicting Frigid Mixed-Phase Clouds for Pristine Coastal Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035112.	1.2	5

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55	Oceanic response to changes in the WAIS and astronomical forcing during the MIS31 superinterglacial. <i>Climate of the Past</i> , 2017, 13, 1081-1095.	1.3	4
56	Antarctic data impact experiments with Polar WRF during the YOPP-ESH summer special observing period. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 2194-2218.	1.0	3
57	Polar WRF V4.1.1 simulation and evaluation for the Antarctic and Southern Ocean. <i>Frontiers of Earth Science</i> , 2022, 16, 1005-1024.	0.9	3
58	Impact of downward longwave radiative deficits on Antarctic sea-ice extent predictability during the sea ice growth period. <i>Environmental Research Letters</i> , 2022, 17, 084008.	2.2	3
59	Atmospheric circulation anomalies due to 115 kyr BP climate forcing dominated by changes in the North Pacific Ocean. <i>Climate Dynamics</i> , 2012, 38, 815-835.	1.7	2
60	The 16th Workshop on Antarctic Meteorology and Climate and 6th Year of Polar Prediction in the Southern Hemisphere Meeting. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 536-542.	1.9	1