

Brooke Medley

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,780
citations

331670

21
h-index

434195

31
g-index

47
all docs

47
docs citations

47
times ranked

2963
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine Ice Sheet Collapse Potentially Under Way for the Thwaites Glacier Basin, West Antarctica. <i>Science</i> , 2014, 344, 735-738.	12.6	651
2	Modelling the climate and surface mass balance of polar ice sheets using RACMO2 – Part 2: Antarctica (1979–2016). <i>Cryosphere</i> , 2018, 12, 1479-1498.	3.9	268
3	Pervasive ice sheet mass loss reflects competing ocean and atmosphere processes. <i>Science</i> , 2020, 368, 1239-1242.	12.6	261
4	Improved representation of East Antarctic surface mass balance in a regional atmospheric climate model. <i>Journal of Glaciology</i> , 2014, 60, 761-770.	2.2	208
5	Interannual variations in meltwater input to the Southern Ocean from Antarctic ice shelves. <i>Nature Geoscience</i> , 2020, 13, 616-620.	12.9	169
6	Increased snowfall over the Antarctic Ice Sheet mitigated twentieth-century sea-level rise. <i>Nature Climate Change</i> , 2019, 9, 34-39.	18.8	132
7	Regional Antarctic snow accumulation over the past 1000 years. <i>Climate of the Past</i> , 2017, 13, 1491-1513.	3.4	124
8	Airborne radar and ice core observations of annual snow accumulation over Thwaites Glacier, West Antarctica confirm the spatiotemporal variability of global and regional atmospheric models. <i>Geophysical Research Letters</i> , 2013, 40, 3649-3654.	4.0	119
9	Observing and Modeling Ice Sheet Surface Mass Balance. <i>Reviews of Geophysics</i> , 2019, 57, 376-420.	23.0	119
10	How much, how fast?: A science review and outlook for research on the instability of Antarctica's Thwaites Glacier in the 21st century. <i>Global and Planetary Change</i> , 2017, 153, 16-34.	3.5	118
11	Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica, with airborne observations of snow accumulation. <i>Cryosphere</i> , 2014, 8, 1375-1392.	3.9	90
12	The Scientific Legacy of NASA's Operation IceBridge. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000712.	23.0	49
13	Temperature and Snowfall in Western Queen Maud Land Increasing Faster Than Climate Model Projections. <i>Geophysical Research Letters</i> , 2018, 45, 1472-1480.	4.0	44
14	Climate and surface mass balance of coastal West Antarctica resolved by regional climate modelling. <i>Annals of Glaciology</i> , 2018, 59, 29-41.	1.4	40
15	Antarctic firn compaction rates from repeat-track airborne radar data: I. Methods. <i>Annals of Glaciology</i> , 2015, 56, 155-166.	1.4	35
16	Brief Communication: Upper-air relaxation in RACMO2 significantly improves modelled interannual surface mass balance variability in Antarctica. <i>Cryosphere</i> , 2016, 10, 459-463.	3.9	35
17	Ice sheet record of recent sea-ice behavior and polynya variability in the Amundsen Sea, West Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 118-130.	2.6	32
18	The Signature of Ozone Depletion in Recent Antarctic Precipitation Change: A Study With the Community Earth System Model. <i>Geophysical Research Letters</i> , 2018, 45, 12,931.	4.0	32

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19	Atmospheric River Precipitation Contributed to Rapid Increases in Surface Height of the West Antarctic Ice Sheet in 2019. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091076.	4.0	30
20	A New Regional Climate Model for POLAR-CORDEX: Evaluation of a 30-Year Hindcast with COSMO-CLM ² Over Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1405-1427.	3.3	24
21	Snow accumulation variability on a West Antarctic ice stream observed with GPS reflectometry, 2007-2017. <i>Geophysical Research Letters</i> , 2017, 44, 7808-7816.	4.0	23
22	Tropical Pacific Influence on the Source and Transport of Marine Aerosols to West Antarctica*. <i>Journal of Climate</i> , 2014, 27, 1343-1363.	3.2	21
23	Physics-based SNOWPACK model improves representation of near-surface Antarctic snow and firn density. <i>Cryosphere</i> , 2021, 15, 1065-1085.	3.9	21
24	Enhanced Firn Densification in High-Accumulation Shear Margins of the NE Greenland Ice Stream. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 365-382.	2.8	20
25	Antarctic firn compaction rates from repeat-track airborne radar data: II. Firn model evaluation. <i>Annals of Glaciology</i> , 2015, 56, 167-174.	1.4	19
26	Significant Spatial Variability in Radar-Derived West Antarctic Accumulation Linked to Surface Winds and Topography. <i>Geophysical Research Letters</i> , 2019, 46, 13126-13134.	4.0	18
27	Observationally constrained surface mass balance of Larsen C ice shelf, Antarctica. <i>Cryosphere</i> , 2017, 11, 2411-2426.	3.9	16
28	High-Spatial-Resolution Mass Rates From GRACE and GRACE-FO: Global and Ice Sheet Analyses. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	15
29	Temporal and spatial variability in surface roughness and accumulation rate around 88°S from repeat airborne geophysical surveys. <i>Cryosphere</i> , 2020, 14, 3287-3308.	3.9	6
30	Scoring Antarctic surface mass balance in climate models to refine future projections. <i>Cryosphere</i> , 2020, 14, 4719-4733.	3.9	5
31	Observations of surface mass balance on Pine Island Glacier, West Antarctica, and the effect of strain history in fast-flowing sections. <i>Journal of Glaciology</i> , 2019, 65, 595-604.	2.2	3