

# B P Y NoÃ«l

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

5,283  
citations

94433

37  
h-index

106344

65  
g-index

94  
all docs

94  
docs citations

94  
times ranked

4012  
citing authors

#	ARTICLE	IF	CITATIONS
1	North Atlantic Cooling is Slowing Down Mass Loss of Icelandic Glaciers. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
2	Arctic glaciers record wavier circumpolar winds. <i>Nature Climate Change</i> , 2022, 12, 249-255.	18.8	7
3	Greenland Mass Trends From Airborne and Satellite Altimetry During 2011â€“2020. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	20
4	Accelerating Ice Loss From Peripheral Glaciers in North Greenland. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
5	Steep Glacier Bed Knickpoints Mitigate Inland Thinning in Greenland. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090112.	4.0	15
6	A 21st Century Warming Threshold for Sustained Greenland Ice Sheet Mass Loss. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090471.	4.0	29
7	Calibration of a frontal ablation parameterisation applied to Greenland's peripheral calving glaciers. <i>Journal of Glaciology</i> , 2021, 67, 1177-1189.	2.2	9
8	Estimating Ice Discharge at Greenland's Three Largest Outlet Glaciers Using Local Bedrock Uplift. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094252.	4.0	6
9	Greenland ice-sheet wide glacier classification based on two distinct seasonal ice velocity behaviors. <i>Journal of Glaciology</i> , 2021, 67, 1241-1248.	2.2	12
10	Ocean forcing drives glacier retreat in Greenland. <i>Science Advances</i> , 2021, 7, .	10.3	86
11	Greenland ice sheet mass balance from 1840 through next week. <i>Earth System Science Data</i> , 2021, 13, 5001-5025.	9.9	26
12	Increased variability in Greenland Ice Sheet runoff from satellite observations. <i>Nature Communications</i> , 2021, 12, 6069.	12.8	23
13	Dynamic ice loss from the Greenland Ice Sheet driven by sustained glacier retreat. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	153
14	Low elevation of Svalbard glaciers drives high mass loss variability. <i>Nature Communications</i> , 2020, 11, 4597.	12.8	52
15	Brief communication: CESM2 climate forcing (1950â€“2014) yields realistic Greenland ice sheet surface mass balance. <i>Cryosphere</i> , 2020, 14, 1425-1435.	3.9	11
16	Continuity of Ice Sheet Mass Loss in Greenland and Antarctica From the GRACE and GRACE Followâ€“On Missions. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087291.	4.0	155
17	Evaluation of CloudSat's Cloudâ€“Profiling Radar for Mapping Snowfall Rates Across the Greenland Ice Sheet. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031411.	3.3	10
18	Presentâ€“Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005318.	2.8	24

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19	Greenland liquid water discharge from 1958 through 2019. <i>Earth System Science Data</i> , 2020, 12, 2811-2841.	9.9	54
20	Remapping of Greenland ice sheet surface mass balance anomalies for large ensemble sea-level change projections. <i>Cryosphere</i> , 2020, 14, 1747-1762.	3.9	11
21	Bayesian calibration of firn densification models. <i>Cryosphere</i> , 2020, 14, 3017-3032.	3.9	10
22	GrSMBMIP: intercomparison of the modelled 1980â€“2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	3.9	111
23	Development of physically based liquid water schemes for Greenland firn-densification models. <i>Cryosphere</i> , 2019, 13, 1819-1842.	3.9	26
24	Greenland Ice Sheet late-season melt: investigating multiscale drivers of K-transect events. <i>Cryosphere</i> , 2019, 13, 2241-2257.	3.9	8
25	A long-term dataset of climatic mass balance, snow conditions, and runoff in Svalbard (1957â€“2018). <i>Cryosphere</i> , 2019, 13, 2259-2280.	3.9	79
26	Rapid ablation zone expansion amplifies north Greenland mass loss. <i>Science Advances</i> , 2019, 5, eaaw0123.	10.3	136
27	Forty-six years of Greenland Ice Sheet mass balance from 1972 to 2018. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9239-9244.	7.1	452
28	Interruption of two decades of Jakobshavn Isbrae acceleration and thinning as regional ocean cools. <i>Nature Geoscience</i> , 2019, 12, 277-283.	12.9	87
29	Atmospheric forcing of rapid marine-terminating glacier retreat in the Canadian Arctic Archipelago. <i>Science Advances</i> , 2019, 5, eaau8507.	10.3	48
30	Geodetic and model data reveal different spatio-temporal patterns of transient mass changes over Greenland from 2007 to 2017. <i>Earth and Planetary Science Letters</i> , 2019, 515, 154-163.	4.4	21
31	Surface mass balance downscaling through elevation classes in an Earth system model: application to the Greenland ice sheet. <i>Cryosphere</i> , 2019, 13, 3193-3208.	3.9	18
32	Land Ice Freshwater Budget of the Arctic and North Atlantic Oceans: 1. Data, Methods, and Results. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1827-1837.	2.6	110
33	Brief communication: Improved simulation of the present-day Greenland firn layer (1960â€“2016). <i>Cryosphere</i> , 2018, 12, 1643-1649.	3.9	42
34	Seasonal to decadal variability in ice discharge from the Greenland Ice Sheet. <i>Cryosphere</i> , 2018, 12, 3813-3825.	3.9	83
35	Six Decades of Glacial Mass Loss in the Canadian Arctic Archipelago. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1430-1449.	2.8	65
36	Modelling the climate and surface mass balance of polar ice sheets using RACMO2 â€“ Part 2: Antarctica (1979â€“2016). <i>Cryosphere</i> , 2018, 12, 1479-1498.	3.9	268

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37	Nonlinear rise in Greenland runoff in response to post-industrial Arctic warming. <i>Nature</i> , 2018, 564, 104-108.	27.8	114
38	Seasonal mass variations show timing and magnitude of meltwater storage in the Greenland Ice Sheet. <i>Cryosphere</i> , 2018, 12, 2981-2999.	3.9	15
39	Evaluation of Reconstructions of Snow/Ice Melt in Greenland by Regional Atmospheric Climate Models Using Laser Altimetry Data. <i>Geophysical Research Letters</i> , 2018, 45, 8324-8333.	4.0	14
40	Modelling the climate and surface mass balance of polar ice sheets using RACMO2 â€“ Part 1: Greenland (1958â€“2016). <i>Cryosphere</i> , 2018, 12, 811-831.	3.9	194
41	Coralline Algae Archive Fjord Surface Water Temperatures in Southwest Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2617-2626.	3.0	5
42	Application of PROMICE Qâ€“Transect in Situ Accumulation and Ablation Measurements (2000â€“2017) to Constrain Mass Balance at the Southern Tip of the Greenland Ice Sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1235-1256.	2.8	16
43	Using remotely sensed data from AIRS to estimate the vapor flux on the Greenland ice sheet: Comparisons with observations and a regional climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 202-229.	3.3	10
44	Inland thinning on the Greenland ice sheet controlled by outlet glacier geometry. <i>Nature Geoscience</i> , 2017, 10, 366-369.	12.9	74
45	A tipping point in refreezing accelerates mass loss of Greenlandâ€™s glaciers and ice caps. <i>Nature Communications</i> , 2017, 8, 14730.	12.8	72
46	Substantial export of suspended sediment to the global oceans from glacial erosion in Greenland. <i>Nature Geoscience</i> , 2017, 10, 859-863.	12.9	110
47	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. <i>Geophysical Research Letters</i> , 2017, 44, 11051-11061.	4.0	536
48	Direct measurements of meltwater runoff on the Greenland ice sheet surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10622-E10631.	7.1	66
49	Greenland Ice Sheet Surface Mass Loss: Recent Developments in Observation and Modeling. <i>Current Climate Change Reports</i> , 2017, 3, 345-356.	8.6	94
50	Sensitivity, stability and future evolution of the world's northernmost ice cap, Hans Tausen Iskappe (Greenland). <i>Cryosphere</i> , 2017, 11, 805-825.	3.9	17
51	Firn Meltwater Retention on the Greenland Ice Sheet: A Model Comparison. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	62
52	On the recent contribution of the Greenland ice sheet to sea level change. <i>Cryosphere</i> , 2016, 10, 1933-1946.	3.9	358
53	Aâ€“daily, 1â€“km resolution data set of downscaled Greenland ice sheet surface mass balance (1958â€“2015). <i>Cryosphere</i> , 2016, 10, 2361-2377.	3.9	126
54	Contrasts in the response of adjacent fjords and glaciers to ice-sheet surface melt in West Greenland. <i>Annals of Glaciology</i> , 2016, 57, 25-38.	1.4	46

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55	The impact of glacier geometry on meltwater plume structure and submarine melt in Greenland fjords. <i>Geophysical Research Letters</i> , 2016, 43, 9739-9748.	4.0	97
56	A high-resolution record of Greenland mass balance. <i>Geophysical Research Letters</i> , 2016, 43, 7002-7010.	4.0	146
57	Greenland Ice Sheet flow response to runoff variability. <i>Geophysical Research Letters</i> , 2016, 43, 11295-11303.	4.0	29
58	Clouds enhance Greenland ice sheet meltwater runoff. <i>Nature Communications</i> , 2016, 7, 10266.	12.8	164
59	Evaluation of the updated regional climate model RACMO2.3: summer snowfall impact on the Greenland Ice Sheet. <i>Cryosphere</i> , 2015, 9, 1831-1844.	3.9	175
60	Elevation change of the Greenland Ice Sheet due to surface mass balance and firn processes, 1960-2014. <i>Cryosphere</i> , 2015, 9, 2009-2025.	3.9	73
61	Changes in the firn structure of the western Greenland Ice Sheet caused by recent warming. <i>Cryosphere</i> , 2015, 9, 1203-1211.	3.9	46
62	Sensitivity of Greenland Ice Sheet surface mass balance to perturbations in sea surface temperature and sea ice cover: a study with the regional climate model MAR. <i>Cryosphere</i> , 2014, 8, 1871-1883.	3.9	43
63	Rapid dynamic activation of a marine-based Arctic ice cap. <i>Geophysical Research Letters</i> , 2014, 41, 8902-8909.	4.0	43
64	Distinct patterns of seasonal Greenland glacier velocity. <i>Geophysical Research Letters</i> , 2014, 41, 7209-7216.	4.0	190
65	Spatiotemporal variations of extreme events in surface mass balance over Greenland during 1958-2019. <i>International Journal of Climatology</i> , 0, , .	3.5	1