

# Willem Jan van de Berg

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

10,065  
citations

57758

44  
h-index

82547

72  
g-index

121  
all docs

121  
docs citations

121  
times ranked

6254  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	12.6	1,246
2	Recent Antarctic ice mass loss from radar interferometry and regional climate modelling. <i>Nature Geoscience</i> , 2008, 1, 106-110.	12.9	819
3	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	27.8	759
4	Partitioning Recent Greenland Mass Loss. <i>Science</i> , 2009, 326, 984-986.	12.6	755
5	Mass balance of the Greenland Ice Sheet from 1992 to 2018. <i>Nature</i> , 2020, 579, 233-239.	27.8	434
6	Higher surface mass balance of the Greenland ice sheet revealed by high-resolution climate modeling. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	430
7	On the recent contribution of the Greenland ice sheet to sea level change. <i>Cryosphere</i> , 2016, 10, 1933-1946.	3.9	358
8	A Review of Antarctic Surface Snow Isotopic Composition: Observations, Atmospheric Circulation, and Isotopic Modeling*. <i>Journal of Climate</i> , 2008, 21, 3359-3387.	3.2	344
9	A new, high-resolution surface mass balance map of Antarctica (1979–2010) based on regional atmospheric climate modeling. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	315
10	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
11	Reassessment of the Antarctic surface mass balance using calibrated output of a regional atmospheric climate model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	236
12	The role of albedo and accumulation in the 2010 melting record in Greenland. <i>Environmental Research Letters</i> , 2011, 6, 014005.	5.2	207
13	Modelling the climate and surface mass balance of polar ice sheets using RACMO2 – Part 1: Greenland (1958–2016). <i>Cryosphere</i> , 2018, 12, 811-831.	3.9	194
14	Distinct patterns of seasonal Greenland glacier velocity. <i>Geophysical Research Letters</i> , 2014, 41, 7209-7216.	4.0	190
15	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
16	Estimation of the Antarctic surface mass balance using the regional climate model MAR (1979–2015) and identification of dominant processes. <i>Cryosphere</i> , 2019, 13, 281-296.	3.9	171
17	A high-resolution record of Greenland mass balance. <i>Geophysical Research Letters</i> , 2016, 43, 7002-7010.	4.0	146
18	Elevation Changes in Antarctica Mainly Determined by Accumulation Variability. <i>Science</i> , 2008, 320, 1626-1629.	12.6	138

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19	Meltwater produced by windâ€™ albedo interaction stored in an East Antarctic ice shelf. Nature Climate Change, 2017, 7, 58-62.	18.8	138
20	Rapid ablation zone expansion amplifies north Greenland mass loss. Science Advances, 2019, 5, eaaw0123.	10.3	136
21	Climate of the Greenland ice sheet using a high-resolution climate model â€™ Part 1: Evaluation. Cryosphere, 2010, 4, 511-527.	3.9	132
22	AAdaily, 1â€™km resolution data set of downscaled Greenland ice sheet surface mass balance (1958â€™2015). Cryosphere, 2016, 10, 2361-2377.	3.9	126
23	GrSMBMIP: intercomparison of the modelled 1980â€™2012 surface mass balance over the Greenland Ice Sheet. Cryosphere, 2020, 14, 3935-3958.	3.9	111
24	A new albedo parameterization for use in climate models over the Antarctic ice sheet. Journal of Geophysical Research, 2011, 116, .	3.3	107
25	Greenland ice sheet surface mass balance: evaluating simulations and making projections with regional climate models. Cryosphere, 2012, 6, 1275-1294.	3.9	106
26	Future surface mass balance of the Antarctic ice sheet and its influence on sea level change, simulated by a regional atmospheric climate model. Climate Dynamics, 2013, 41, 867-884.	3.8	104
27	Extreme Precipitation and Climate Gradients in Patagonia Revealed by High-Resolution Regional Atmospheric Climate Modeling. Journal of Climate, 2014, 27, 4607-4621.	3.2	97
28	Significant contribution of insolation to Eemian melting of the Greenland ice sheet. Nature Geoscience, 2011, 4, 679-683.	12.9	94
29	Greenland Ice Sheet Surface Mass Loss: Recent Developments in Observation and Modeling. Current Climate Change Reports, 2017, 3, 345-356.	8.6	94
30	The modelled surface mass balance of the Antarctic Peninsula at 5.5â€™km horizontal resolution. Cryosphere, 2016, 10, 271-285.	3.9	89
31	Climate of the Greenland ice sheet using a high-resolution climate model â€™ Part 2: Near-surface climate and energy balance. Cryosphere, 2010, 4, 529-544.	3.9	81
32	Modeling drifting snow in Antarctica with a regional climate model: 1. Methods and model evaluation. Journal of Geophysical Research, 2012, 117, .	3.3	81
33	Snowfall in coastal West Antarctica much greater than previously assumed. Geophysical Research Letters, 2006, 33, .	4.0	75
34	A tipping point in refreezing accelerates mass loss of Greenlandâ€™s glaciers and ice caps. Nature Communications, 2017, 8, 14730.	12.8	72
35	Updated cloud physics in a regional atmospheric climate model improves the modelled surface energy balance of Antarctica. Cryosphere, 2014, 8, 125-135.	3.9	67
36	Direct measurements of meltwater runoff on the Greenland ice sheet surface. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10622-E10631.	7.1	66

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37	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
38	Coupled regional climate–ice-sheet simulation shows limited Greenland ice loss during the Eemian. <i>Climate of the Past</i> , 2013, 9, 1773-1788.	3.4	62
39	Channelized Melting Drives Thinning Under a Rapidly Melting Antarctic Ice Shelf. <i>Geophysical Research Letters</i> , 2017, 44, 9796-9804.	4.0	61
40	Temperature and Wind Climate of the Antarctic Peninsula as Simulated by a High-Resolution Regional Atmospheric Climate Model. <i>Journal of Climate</i> , 2015, 28, 7306-7326.	3.2	60
41	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	3.9	55
42	Coupling of climate models and ice sheet models by surface mass balance gradients: application to the Greenland Ice Sheet. <i>Cryosphere</i> , 2012, 6, 255-272.	3.9	54
43	Identification of Antarctic ablation areas using a regional atmospheric climate model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	53
44	Low elevation of Svalbard glaciers drives high mass loss variability. <i>Nature Communications</i> , 2020, 11, 4597.	12.8	52
45	Oceanographic Controls on the Variability of Ice–Shelf Basal Melting and Circulation of Glacial Meltwater in the Amundsen Sea Embayment, Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 10131-10155.	2.6	49
46	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
47	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
48	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
49	Firn depth correction along the Antarctic grounding line. <i>Antarctic Science</i> , 2008, 20, 513-517.	0.9	34
50	Experimental verification of Lorentz–linearization procedure for quadratic friction. <i>Fluid Dynamics Research</i> , 2005, 36, 175-188.	1.3	31
51	Modelling the evolution of the Antarctic ice sheet since the last interglacial. <i>Cryosphere</i> , 2014, 8, 1347-1360.	3.9	31
52	Momentum budget of the atmospheric boundary layer over the Greenland ice sheet and its surrounding seas. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	30
53	A 21st Century Warming Threshold for Sustained Greenland Ice Sheet Mass Loss. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090471.	4.0	29
54	Heat budget of the East Antarctic lower atmosphere derived from a regional atmospheric climate model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	26

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55	A benchmark dataset of in situ Antarctic surface melt rates and energy balance. <i>Journal of Glaciology</i> , 2020, 66, 291-302.	2.2	25
56	Drifting snow measurements on the Greenland Ice Sheet and their application for model evaluation. <i>Cryosphere</i> , 2014, 8, 801-814.	3.9	22
57	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
58	Impact of coastal East Antarctic ice rises on surface mass balance: insights from observations and modeling. <i>Cryosphere</i> , 2020, 14, 3367-3380.	3.9	17
59	Spatial Variability of the Snowmelt-Albedo Feedback in Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005696.	2.8	13
60	OBLIMAP 2.0: a fast climate model-ice sheet model coupler including online embeddable mapping routines. <i>Geoscientific Model Development</i> , 2016, 9, 4111-4132.	3.6	13
61	A model study of the effect of climate and sea-level change on the evolution of the Antarctic Ice Sheet from the Last Glacial Maximum to 2100. <i>Climate Dynamics</i> , 2015, 45, 837-851.	3.8	12
62	Evaluation of a new snow albedo scheme for the Greenland ice sheet in the Regional Atmospheric Climate Model (RACMO2). <i>Cryosphere</i> , 2020, 14, 3645-3662.	3.9	12
63	A module to convert spectral to narrowband snow albedo for use in climate models: SNOWBAL v1.2. <i>Geoscientific Model Development</i> , 2019, 12, 5157-5175.	3.6	11
64	Brief communication: CESM2 climate forcing (1950-2014) yields realistic Greenland ice sheet surface mass balance. <i>Cryosphere</i> , 2020, 14, 1425-1435.	3.9	11
65	Importance of precipitation seasonality for the interpretation of Eemian ice core isotope records from Greenland. <i>Climate of the Past</i> , 2013, 9, 1589-1600.	3.4	10
66	Uncertainty in East Antarctic Firn Thickness Constrained Using a Model Ensemble Approach. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092060.	4.0	10
67	Mass balance of the Sør Rondane glacial system, East Antarctica. <i>Annals of Glaciology</i> , 2015, 56, 63-69.	1.4	9
68	A Multidisciplinary Perspective on Climate Model Evaluation For Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES23-ES26.	3.3	7
69	Impact of updated radiative transfer scheme in snow and ice in RACMO2.3p3 on the surface mass and energy budget of the Greenland ice sheet. <i>Cryosphere</i> , 2021, 15, 1823-1844.	3.9	7
70	The added value of high resolution in estimating the surface mass balance in southern Greenland. <i>Cryosphere</i> , 2020, 14, 1809-1827.	3.9	7
71	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
72	Sensitivity of Antarctic surface climate to a new spectral snow albedo and radiative transfer scheme in RACMO2.3p3. <i>Cryosphere</i> , 2022, 16, 1071-1089.	3.9	1

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73	Towards a re-assessment of the surface mass balance of the Greenland ice sheet. EPJ Web of Conferences, 2009, 1, 171-176.	0.3	0