

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

57631

44
h-index

82410

72
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121
all docs

121
docs citations

121
times ranked

6254
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	1
2	Spatial Variability of the Snowmelt-Albedo Feedback in Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005696.	1.0	13
3	A 21st Century Warming Threshold for Sustained Greenland Ice Sheet Mass Loss. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090471.	1.5	29
4	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.	1.5	7
5	Uncertainty in East Antarctic Firn Thickness Constrained Using a Model Ensemble Approach. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092060.	1.5	10
6	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	1.5	55
7	Mass balance of the Greenland Ice Sheet from 1992 to 2018. <i>Nature</i> , 2020, 579, 233-239.	13.7	434
8	Low elevation of Svalbard glaciers drives high mass loss variability. <i>Nature Communications</i> , 2020, 11, 4597.	5.8	52
9	Brief communication: CESM2 climate forcing (1950–2014) yields realistic Greenland ice sheet surface mass balance. <i>Cryosphere</i> , 2020, 14, 1425-1435.	1.5	11
10	A benchmark dataset of in situ Antarctic surface melt rates and energy balance. <i>Journal of Glaciology</i> , 2020, 66, 291-302.	1.1	25
11	The added value of high resolution in estimating the surface mass balance in southern Greenland. <i>Cryosphere</i> , 2020, 14, 1809-1827.	1.5	7
12	Impact of coastal East Antarctic ice rises on surface mass balance: insights from observations and modeling. <i>Cryosphere</i> , 2020, 14, 3367-3380.	1.5	17
13	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.	1.5	12
14	GrSMBMIP: intercomparison of the modelled 1980–2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	1.5	111
15	Rapid ablation zone expansion amplifies north Greenland mass loss. <i>Science Advances</i> , 2019, 5, eaaw0123.	4.7	136
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.	1.5	171
17	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.	1.3	11
18	Six Decades of Glacial Mass Loss in the Canadian Arctic Archipelago. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1430-1449.	1.0	65

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19	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.	1.5	268
20	Climate and surface mass balance of coastal West Antarctica resolved by regional climate modelling. <i>Annals of Glaciology</i> , 2018, 59, 29-41.	2.8	40
21	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.	1.5	194
22	Coralline Algae Archive Fjord Surface Water Temperatures in Southwest Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2617-2626.	1.3	5
23	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	13.7	759
24	A tipping point in refreezing accelerates mass loss of Greenland's glaciers and ice caps. <i>Nature Communications</i> , 2017, 8, 14730.	5.8	72
25	Meltwater produced by wind-albedo interaction stored in an East Antarctic ice shelf. <i>Nature Climate Change</i> , 2017, 7, 58-62.	8.1	138
26	Channelized Melting Drives Thinning Under a Rapidly Melting Antarctic Ice Shelf. <i>Geophysical Research Letters</i> , 2017, 44, 9796-9804.	1.5	61
27	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.	3.3	66
28	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.	1.0	49
29	Greenland Ice Sheet Surface Mass Loss: Recent Developments in Observation and Modeling. <i>Current Climate Change Reports</i> , 2017, 3, 345-356.	2.8	94
30	Sensitivity, stability and future evolution of the world's northernmost ice cap, Hans Tausen Iskappe (Greenland). <i>Cryosphere</i> , 2017, 11, 805-825.	1.5	17
31	On the recent contribution of the Greenland ice sheet to sea level change. <i>Cryosphere</i> , 2016, 10, 1933-1946.	1.5	358
32	A daily, 1-km resolution data set of downscaled Greenland ice sheet surface mass balance (1958–2015). <i>Cryosphere</i> , 2016, 10, 2361-2377.	1.5	126
33	The modelled surface mass balance of the Antarctic Peninsula at 5.5-km horizontal resolution. <i>Cryosphere</i> , 2016, 10, 271-285.	1.5	89
34	A Multidisciplinary Perspective on Climate Model Evaluation For Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES23-ES26.	1.7	7
35	A high-resolution record of Greenland mass balance. <i>Geophysical Research Letters</i> , 2016, 43, 7002-7010.	1.5	146
36	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.	1.3	13

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37	Brief Communication: Upper-air relaxation in RACMO2 significantly improves modelled interannual surface mass balance variability in Antarctica. <i>Cryosphere</i> , 2016, 10, 459-463.	1.5	35
38	Evaluation of the updated regional climate model RACMO2.3: summer snowfall impact on the Greenland Ice Sheet. <i>Cryosphere</i> , 2015, 9, 1831-1844.	1.5	175
39	Mass balance of the Sør Rondane glacial system, East Antarctica. <i>Annals of Glaciology</i> , 2015, 56, 63-69.	2.8	9
40	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.	1.7	12
41	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.	1.2	60
42	Updated cloud physics in a regional atmospheric climate model improves the modelled surface energy balance of Antarctica. <i>Cryosphere</i> , 2014, 8, 125-135.	1.5	67
43	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.	1.5	43
44	Modelling the evolution of the Antarctic ice sheet since the last interglacial. <i>Cryosphere</i> , 2014, 8, 1347-1360.	1.5	31
45	Extreme Precipitation and Climate Gradients in Patagonia Revealed by High-Resolution Regional Atmospheric Climate Modeling. <i>Journal of Climate</i> , 2014, 27, 4607-4621.	1.2	97
46	Distinct patterns of seasonal Greenland glacier velocity. <i>Geophysical Research Letters</i> , 2014, 41, 7209-7216.	1.5	190
47	Drifting snow measurements on the Greenland Ice Sheet and their application for model evaluation. <i>Cryosphere</i> , 2014, 8, 801-814.	1.5	22
48	Future surface mass balance of the Antarctic ice sheet and its influence on sea level change, simulated by a regional atmospheric climate model. <i>Climate Dynamics</i> , 2013, 41, 867-884.	1.7	104
49	Coupled regional climate-ice-sheet simulation shows limited Greenland ice loss during the Eemian. <i>Climate of the Past</i> , 2013, 9, 1773-1788.	1.3	62
50	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.	1.3	10
51	Greenland ice sheet surface mass balance: evaluating simulations and making projections with regional climate models. <i>Cryosphere</i> , 2012, 6, 1275-1294.	1.5	106
52	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.	1.5	54
53	Modeling drifting snow in Antarctica with a regional climate model: 1. Methods and model evaluation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	81
54	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	6.0	1,246

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55	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, .	1.5	315
56	A new albedo parameterization for use in climate models over the Antarctic ice sheet. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	107
57	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
58	The role of albedo and accumulation in the 2010 melting record in Greenland. <i>Environmental Research Letters</i> , 2011, 6, 014005.	2.2	207
59	Significant contribution of insolation to Eemian melting of the Greenland ice sheet. <i>Nature Geoscience</i> , 2011, 4, 679-683.	5.4	94
60	Climate of the Greenland ice sheet using a high-resolution climate model – Part 2: Near-surface climate and energy balance. <i>Cryosphere</i> , 2010, 4, 529-544.	1.5	81
61	Climate of the Greenland ice sheet using a high-resolution climate model – Part 1: Evaluation. <i>Cryosphere</i> , 2010, 4, 511-527.	1.5	132
62	Towards a re-assessment of the surface mass balance of the Greenland ice sheet. <i>EPJ Web of Conferences</i> , 2009, 1, 171-176.	0.1	0
63	Partitioning Recent Greenland Mass Loss. <i>Science</i> , 2009, 326, 984-986.	6.0	755
64	Higher surface mass balance of the Greenland ice sheet revealed by high-resolution climate modeling. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	430
65	Recent Antarctic ice mass loss from radar interferometry and regional climate modelling. <i>Nature Geoscience</i> , 2008, 1, 106-110.	5.4	819
66	Elevation Changes in Antarctica Mainly Determined by Accumulation Variability. <i>Science</i> , 2008, 320, 1626-1629.	6.0	138
67	A Review of Antarctic Surface Snow Isotopic Composition: Observations, Atmospheric Circulation, and Isotopic Modeling*. <i>Journal of Climate</i> , 2008, 21, 3359-3387.	1.2	344
68	Firn depth correction along the Antarctic grounding line. <i>Antarctic Science</i> , 2008, 20, 513-517.	0.5	34
69	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
70	Snowfall in coastal West Antarctica much greater than previously assumed. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	75
71	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
72	Identification of Antarctic ablation areas using a regional atmospheric climate model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	53

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73	Experimental verification of Lorentz's™ linearization procedure for quadratic friction. Fluid Dynamics Research, 2005, 36, 175-188.	0.6	31