

# Sebastian H Mernild

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,079  
citations

101543

36  
h-index

95266

68  
g-index

90  
all docs

90  
docs citations

90  
times ranked

6101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Greenland surface air temperature changes from 1981 to 2019 and implications for ice-sheet melt and mass-balance change. <i>International Journal of Climatology</i> , 2021, 41, E1336.	3.5	65
2	The role of blocking circulation and emerging open water feedbacks on Greenland cold-season air temperature variability over the last century. <i>International Journal of Climatology</i> , 2021, 41, E2778.	3.5	5
3	Combined influence of oceanic and atmospheric circulations on Greenland sea ice concentration. <i>Cryosphere</i> , 2021, 15, 1307-1319.	3.9	6
4	Greenland Ice Sheet and Arctic Mountain Glaciers. , 2021, , 133-156.		0
5	Mass balance of the Greenland Ice Sheet from 1992 to 2018. <i>Nature</i> , 2020, 579, 233-239.	27.8	434
6	GrSMBMIP: intercomparison of the modelled 1980–2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 3935-3958.	3.9	111
7	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.6	474
8	Statistical EOF analysis of spatiotemporal glacier mass-balance variability: a case study of Mittivakkat Gletscher, SE Greenland. <i>Geografisk Tidsskrift</i> , 2018, 118, 1-16.	0.6	2
9	Snow cover and snow albedo changes in the central Andes of Chile and Argentina from daily MODIS observations (2000–2016). <i>Remote Sensing of Environment</i> , 2018, 209, 240-252.	11.0	64
10	Reconstructing Greenland Ice Sheet meltwater discharge through the Watson River (1949–2017). <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	27
11	High-resolution ice sheet surface mass-balance and spatiotemporal runoff simulations: Kangerlussuaq, west Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	8
12	Global sea-level contribution from Arctic land ice: 1971–2017. <i>Environmental Research Letters</i> , 2018, 13, 125012.	5.2	62
13	Observed sediment and solute transport from the Kangerlussuaq sector of the Greenland Ice Sheet (2006–2016). <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	1.1	16
14	Annual River Runoff Variations and Trends for the Andes Cordillera. <i>Journal of Hydrometeorology</i> , 2018, 19, 1167-1189.	1.9	7
15	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018, 558, 219-222.	27.8	759
16	A predictive model for the spectral albedo of snow. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 434-454.	2.8	55
17	The Andes Cordillera. Part III: glacier surface mass balance and contribution to sea level rise (1979–2014). <i>International Journal of Climatology</i> , 2017, 37, 3154-3174.	3.5	41
18	The Andes Cordillera. Part IV: spatiotemporal freshwater runoff distribution to adjacent seas (1979–2014). <i>International Journal of Climatology</i> , 2017, 37, 3175-3196.	3.5	12

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19	The Andes Cordillera. Part I: snow distribution, properties, and trends (1979–2014). <i>International Journal of Climatology</i> , 2017, 37, 1680-1698.	3.5	42
20	The Andes Cordillera. Part II: Rio Olivares Basin snow conditions (1979–2014), central Chile. <i>International Journal of Climatology</i> , 2017, 37, 1699-1715.	3.5	9
21	Surface Air Temperature Fluctuations and Lapse Rates on Olivares Gamma Glacier, Rio Olivares Basin, Central Chile, from a Novel Meteorological Sensor Network. <i>Advances in Meteorology</i> , 2017, 2017, 1-15.	1.6	8
22	The Arctic in the Twenty-First Century: Changing Biogeochemical Linkages across a Paraglacial Landscape of Greenland. <i>BioScience</i> , 2017, 67, 118-133.	4.9	60
23	Stable oxygen isotope variability in two contrasting glacier river catchments in Greenland. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1197-1210.	4.9	19
24	Arctic terrestrial hydrology: A synthesis of processes, regional effects, and research challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 621-649.	3.0	293
25	Glacier area changes in the central Chilean and Argentinean Andes 1955–2013/14. <i>Journal of Glaciology</i> , 2016, 62, 391-401.	2.2	49
26	Fate of the Atlantic Meridional Overturning Circulation: Strong decline under continued warming and Greenland melting. <i>Geophysical Research Letters</i> , 2016, 43, 12,252.	4.0	132
27	Greenland surface mass-balance observations from the ice-sheet ablation area and local glaciers. <i>Journal of Glaciology</i> , 2016, 62, 861-887.	2.2	59
28	Surface velocity fluctuations for Glacier Universidad, central Chile, between 1967 and 2015. <i>Journal of Glaciology</i> , 2016, 62, 847-860.	2.2	17
29	The impact of resolution on the representation of southeast Greenland barrier winds and katabatic flows. <i>Geophysical Research Letters</i> , 2015, 42, 3011-3018.	4.0	35
30	Albedo decline on Greenland's Mittivakkat Gletscher in a warming climate. <i>International Journal of Climatology</i> , 2015, 35, 2294-2307.	3.5	15
31	Freshwater Flux and Spatiotemporal Simulated Runoff Variability into Ilulissat Icefjord, West Greenland, Linked to Salinity and Temperature Observations near Tidewater Glacier Margins Obtained Using Instrumented Ringed Seals. <i>Journal of Physical Oceanography</i> , 2015, 45, 1426-1445.	1.7	17
32	Glacier changes in the circumpolar Arctic and sub-Arctic, mid-1980s to late-2000s/2011. <i>Geografisk Tidsskrift</i> , 2015, 115, 39-56.	0.6	2
33	Mass loss and imbalance of glaciers along the Andes Cordillera to the sub-Antarctic islands. <i>Global and Planetary Change</i> , 2015, 133, 109-119.	3.5	52
34	Greenland precipitation trends in a long-term instrumental climate context (1890–2012): evaluation of coastal and ice core records. <i>International Journal of Climatology</i> , 2015, 35, 303-320.	3.5	84
35	Quantifying flow regimes in a Greenland glacial fjord using iceberg drifters. <i>Geophysical Research Letters</i> , 2014, 41, 8411-8420.	4.0	41
36	Northern Hemisphere Glacier and Ice Cap Surface Mass Balance and Contribution to Sea Level Rise. <i>Journal of Climate</i> , 2014, 27, 6051-6073.	3.2	23

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37	Atmospheric and oceanic influence on mass balance of northern North Atlantic region land-terminating glaciers. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2014, 96, n/a-n/a.	1.5	6
38	Strong Downslope Wind Events in Ammassalik, Southeast Greenland. <i>Journal of Climate</i> , 2014, 27, 977-993.	3.2	56
39	Atmospheric and oceanic climate forcing of the exceptional Greenland ice sheet surface melt in summer 2012. <i>International Journal of Climatology</i> , 2014, 34, 1022-1037.	3.5	182
40	Volume measurements of Mittivakkat Gletscher, southeast Greenland. <i>Journal of Glaciology</i> , 2014, 60, 1199-1207.	2.2	22
41	Coastal Greenland air temperature extremes and trends 1890â€“2010: annual and monthly analysis. <i>International Journal of Climatology</i> , 2014, 34, 1472-1487.	3.5	46
42	The influence of North Atlantic atmospheric and oceanic forcing effects on 1900â€“2010 Greenland summer climate and ice melt/runoff. <i>International Journal of Climatology</i> , 2013, 33, 862-880.	3.5	193
43	Land-terminating glacier volume changes in different Circum-Arctic areas, mid-1980s to late-2000s/2011. <i>Geografisk Tidsskrift</i> , 2013, 113, 65-70.	0.6	3
44	Volume and velocity changes at Mittivakkat Gletscher, southeast Greenland. <i>Journal of Glaciology</i> , 2013, 59, 660-670.	2.2	17
45	Trajectory of the Arctic as an integrated system. <i>Ecological Applications</i> , 2013, 23, 1837-1868.	3.8	166
46	Global glacier changes: a revised assessment of committed mass losses and sampling uncertainties. <i>Cryosphere</i> , 2013, 7, 1565-1577.	3.9	76
47	Fluctuations of sediment accumulation rates in front of an Arctic delta in Greenland. <i>Holocene</i> , 2013, 23, 860-868.	1.7	8
48	Identification of snow ablation rate, ELA, AAR and net mass balance using transient snowline variations on two Arctic glaciers. <i>Journal of Glaciology</i> , 2013, 59, 649-659.	2.2	50
49	Greenland Freshwater Runoff. Part II: Distribution and Trends, 1960â€“2010. <i>Journal of Climate</i> , 2012, 25, 6015-6035.	3.2	53
50	Greenland Freshwater Runoff. Part I: A Runoff Routing Model for Glaciated and Nonglaciated Landscapes (HydroFlow). <i>Journal of Climate</i> , 2012, 25, 5997-6014.	3.2	52
51	Recent warming in Greenland in a long-term instrumental (1881â€“2012) climatic context: I. Evaluation of surface air temperature records. <i>Environmental Research Letters</i> , 2012, 7, 045404.	5.2	135
52	Climate-driven fluctuations in freshwater flux to Sermilik Fjord, East Greenland, during the last 4000 years. <i>Holocene</i> , 2012, 22, 155-164.	1.7	19
53	Multi-decadal marine- and land-terminating glacier recession in the Ammassalik region, southeast Greenland. <i>Cryosphere</i> , 2012, 6, 625-639.	3.9	32
54	Surface melt extent for the Greenland Ice Sheet, 2011. <i>Geografisk Tidsskrift</i> , 2012, 112, 84-88.	0.6	4

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55	Modeling Suspended Sediment Concentration and Transport, Mittivakkat Glacier, Southeast Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 306-318.	1.1	6
56	Simulated Internal Storage Buildup, Release, and Runoff from Greenland Ice Sheet at Kangerlussuaq, West Greenland. <i>Arctic, Antarctic, and Alpine Research</i> , 2012, 44, 83-94.	1.1	8
57	Greenland ice sheet surface melt extent and trends: 1960–2010. <i>Journal of Glaciology</i> , 2011, 57, 621-628.	2.2	66
58	Surface Mass Balance and Runoff Modeling Using HIRHAM4 RCM at Kangerlussuaq (Søndre) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.2	35
59	Increasing mass loss from Greenland's Mittivakkat Gletscher. <i>Cryosphere</i> , 2011, 5, 341-348.	3.9	44
60	Meltwater flux and runoff modeling in the ablation area of Jakobshavn Isbrø, West Greenland. <i>Journal of Glaciology</i> , 2010, 56, 20-32.	2.2	29
61	Sediment plumes as a proxy for local ice-sheet runoff in Kangerlussuaq Fjord, West Greenland. <i>Journal of Glaciology</i> , 2010, 56, 813-821.	2.2	47
62	Runoff and mass-balance simulations from the Greenland Ice Sheet at Kangerlussuaq (Søndre) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.9	26
63	Freshwater flux to Sermilik Fjord, SE Greenland. <i>Cryosphere</i> , 2010, 4, 453-465.	3.9	33
64	The Influence of Air Temperature Inversions on Snowmelt and Glacier Mass Balance Simulations, Ammassalik Island, Southeast Greenland. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 47-67.	1.5	57
65	Greenland Ice Sheet Surface Mass-Balance Modeling in a 131-Yr Perspective, 1950–2080. <i>Journal of Hydrometeorology</i> , 2010, 11, 3-25.	1.9	70
66	Greenland Ice Sheet surface mass-balance modelling and freshwater flux for 2007, and in a 1995–2007 perspective. <i>Hydrological Processes</i> , 2009, 23, 2470-2484.	2.6	52
67	Observed runoff, jÅtkulhlaups and suspended sediment load from the Greenland ice sheet at Kangerlussuaq, West Greenland, 2007 and 2008. <i>Journal of Glaciology</i> , 2009, 55, 855-858.	2.2	57
68	Climatic control on river discharge simulations, Zackenberg River drainage basin, northeast Greenland. <i>Hydrological Processes</i> , 2008, 22, 1932-1948.	2.6	35
69	East Greenland freshwater runoff to the Greenlandâ€¦celandâ€¦Norwegian Seas 1999â€¦2004 and 2071â€¦2100. <i>Hydrological Processes</i> , 2008, 22, 4571-4586.	2.6	16
70	Surface Melt Area and Water Balance Modeling on the Greenland Ice Sheet 1995â€¦2005. <i>Journal of Hydrometeorology</i> , 2008, 9, 1191-1211.	1.9	33
71	Meteorological observations 2006 and ground temperature variations over 12-year at the Sermilik Station, Ammassalik Island, Southeast Greenland. <i>Geografisk Tidsskrift</i> , 2008, 108, 153-161.	0.6	2
72	Snowâ€¦distribution and melt modelling for glaciers in Zackenberg river drainage basin, northâ€¦eastern Greenland. <i>Hydrological Processes</i> , 2007, 21, 3249-3263.	2.6	39

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73	The internal drainage system of the lower Mittivakkat Glacier, Ammassalik Island, SE Greenland. Geografisk Tidsskrift, 2006, 106, 13-24.	0.6	12
74	Sediment transport to the Arctic Ocean and adjoining cold oceans*. Hydrology Research, 2006, 37, 413-432.	2.7	40
75	Snow Distribution and Melt Modeling for Mittivakkat Glacier, Ammassalik Island, Southeast Greenland. Journal of Hydrometeorology, 2006, 7, 808-824.	1.9	74
76	Meteorological observations 2004 at the Sermilik Station, Ammassalik Island, Southeast Greenland. Geografisk Tidsskrift, 2006, 106, 131-140.	0.6	5
77	Water flow through Mittivakkat Glacier, Ammassalik Island, SE Greenland. Geografisk Tidsskrift, 2006, 106, 25-43.	0.6	25
78	Meteorological observations 2003 at the Sermilik Station, Ammassalik Island, Southeast Greenland. Geografisk Tidsskrift, 2005, 105, 49-56.	0.6	9
79	Meteorological stations at the Sermilik Station, Southeast Greenland: physical environment and meteorological observations 2002. Geografisk Tidsskrift, 2004, 104, 47-58.	0.6	9
80	A test of classification and regionalisation of Danish watercourses. Geografisk Tidsskrift, 2003, 103, 13-25.	0.6	4