

# Asa K Rennermalm

## List of Publications by Year in descending order

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43  
papers

1,488  
citations

304701

22  
h-index

330122

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g-index

55  
all docs

55  
docs citations

55  
times ranked

2242  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shallow firn cores 1989–2019 in southwest Greenland's percolation zone reveal decreasing density and ice layer thickness after 2012. <i>Journal of Glaciology</i> , 2022, 68, 431-442.	2.2	12
2	Supraglacial streamflow and meteorological drivers from southwest Greenland. <i>Cryosphere</i> , 2022, 16, 2245-2263.	3.9	6
3	The Presence and Widespread Distribution of Dark Sediment in Greenland Ice Sheet Supraglacial Streams Implies Substantial Impact of Microbial Communities on Sediment Deposition and Albedo. <i>Geophysical Research Letters</i> , 2021, 48, 2020GL088444.	4.0	7
4	Spectral attenuation coefficients from measurements of light transmission in bare ice on the Greenland Ice Sheet. <i>Cryosphere</i> , 2021, 15, 1931-1953.	3.9	14
5	Supraglacial River Forcing of Subglacial Water Storage and Diurnal Ice Sheet Motion. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091418.	4.0	22
6	Heterogeneous CO <sub>2</sub> and CH <sub>4</sub> content of glacial meltwater from the Greenland Ice Sheet and implications for subglacial carbon processes. <i>Cryosphere</i> , 2021, 15, 1627-1644.	3.9	9
7	Hourly surface meltwater routing for a Greenlandic supraglacial catchment across hillslopes and through a dense topological channel network. <i>Cryosphere</i> , 2021, 15, 2315-2331.	3.9	7
8	Terrain-Based Shadow Correction Method for Assessing Supraglacial Features on the Greenland Ice Sheet. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	4
9	Methods for Predicting the Likelihood of Safe Fieldwork Conditions in Harsh Environments. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	2
10	Controls on the Transport of Meltwater From the Southern Greenland Ice Sheet in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3551-3560.	2.6	12
11	Chemical weathering across the western foreland of the Greenland Ice Sheet. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 426-440.	3.9	16
12	Exploring the Potential Impact of Greenland Meltwater on Stratification, Photosynthetically Active Radiation, and Primary Production in the Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2570-2591.	2.6	37
13	Southeast Greenland Winter Precipitation Strongly Linked to the Icelandic Low Position. <i>Journal of Climate</i> , 2018, 31, 4483-4500.	3.2	23
14	Meltwater storage in low-density near-surface bare ice in the Greenland ice sheet ablation zone. <i>Cryosphere</i> , 2018, 12, 955-970.	3.9	43
15	Evaluation of satellite remote sensing albedo retrievals over the ablation area of the southwestern Greenland ice sheet. <i>Remote Sensing of Environment</i> , 2017, 198, 115-125.	11.0	35
16	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
17	Derivation of High Spatial Resolution Albedo from UAV Digital Imagery: Application over the Greenland Ice Sheet. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	37
18	Investigating the local-scale influence of sea ice on Greenland surface melt. <i>Cryosphere</i> , 2017, 11, 2363-2381.	3.9	22

#	ARTICLE	IF	CITATIONS
19	Melting glaciers stimulate large summer phytoplankton blooms in southwest Greenland waters. <i>Geophysical Research Letters</i> , 2017, 44, 6278-6285.	4.0	82
20	Characterizing supraglacial meltwater channel hydraulics on the Greenland Ice Sheet from <i>in situ</i> observations. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 2111-2122.	2.5	24
21	Oceanic transport of surface meltwater from the southern Greenland ice sheet. <i>Nature Geoscience</i> , 2016, 9, 528-532.	12.9	85
22	Atmospheric drivers of Greenland surface melt revealed by self-organizing maps. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5095-5114.	3.3	36
23	Fluvial morphometry of supraglacial river networks on the southwest Greenland Ice Sheet. <i>GIScience and Remote Sensing</i> , 2016, 53, 459-482.	5.9	29
24	Multi-modal albedo distributions in the ablation area of the southwestern Greenland Ice Sheet. <i>Cryosphere</i> , 2015, 9, 905-923.	3.9	20
25	Efficient meltwater drainage through supraglacial streams and rivers on the southwest Greenland ice sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1001-1006.	7.1	163
26	Controls on Spatial and Temporal Variability in Northern Hemisphere Terrestrial Snow Melt Timing, 1979-2012. <i>Journal of Climate</i> , 2015, 28, 2136-2153.	3.2	18
27	Attribution of snowmelt onset in Northern Canada. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9638-9653.	3.3	15
28	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	3.3	138
29	Understanding Greenland ice sheet hydrology using an integrated multi-scale approach. <i>Environmental Research Letters</i> , 2013, 8, 015017.	5.2	46
30	Evidence of meltwater retention within the Greenland ice sheet. <i>Cryosphere</i> , 2013, 7, 1433-1445.	3.9	69
31	Breaking the ice: Theorizing the mechanisms of Arctic thaw. <i>Eos</i> , 2012, 93, 416-416.	0.1	0
32	Spatial and Scale-Dependent Controls on North American Pan-Arctic Minimum River Discharge. <i>Geographical Analysis</i> , 2012, 44, 202-218.	3.5	9
33	Proglacial river stage, discharge, and temperature datasets from the Akuliarusiarsuup Kuua River northern tributary, Southwest Greenland, 2008-2011. <i>Earth System Science Data</i> , 2012, 4, 1-12.	9.9	24
34	Hydrologic controls on coastal suspended sediment plumes around the Greenland Ice Sheet. <i>Cryosphere</i> , 2012, 6, 1-19.	3.9	56
35	Observed changes in pan-arctic cold-season minimum monthly river discharge. <i>Climate Dynamics</i> , 2010, 35, 923-939.	3.8	51
36	Hydrologic variability and its influence on long-term peat dynamics. <i>Water Resources Research</i> , 2010, 46, .	4.2	16

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37	Does sea ice influence Greenland ice sheet surface-melt?. Environmental Research Letters, 2009, 4, 024011.	5.2	32
38	Sediment plume response to surface melting and supraglacial lake drainages on the Greenland ice sheet. Journal of Glaciology, 2009, 55, 1072-1082.	2.2	58
39	Spatial and Inter-Annual Variability of Trace Gas Fluxes in a Heterogeneous High-Arctic Landscape. Advances in Ecological Research, 2008, 40, 473-498.	2.7	19
40	Relative sensitivity of the Atlantic meridional overturning circulation to river discharge into Hudson Bay and the Arctic Ocean. Journal of Geophysical Research, 2007, 112, .	3.3	34
41	Sensitivity of the thermohaline circulation to Arctic Ocean runoff. Geophysical Research Letters, 2006, 33, .	4.0	29
42	The Water Budget of the Kuparuk River Basin, Alaska*. Journal of Hydrometeorology, 2005, 6, 633-655.	1.9	24
43	Interannual Variability in Carbon Dioxide Exchange from a High Arctic Fen Estimated by Measurements and Modeling. Arctic, Antarctic, and Alpine Research, 2005, 37, 545-556.	1.1	24