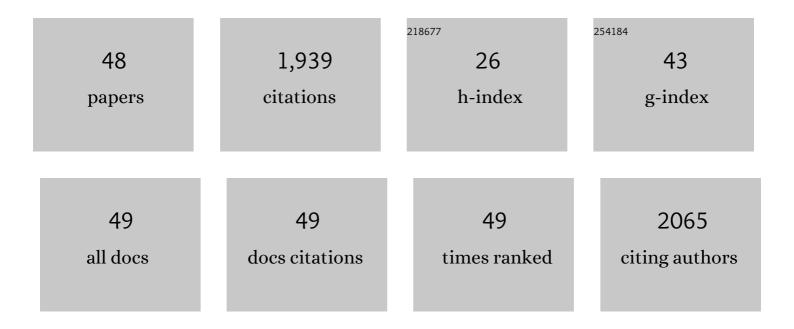
Knut Christianson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Geophysics and Thermodynamics at South Pole Lake Indicate Stability and a Regionally Thawed Bed. Geophysical Research Letters, 2022, 49, .	4.0	4
2	The Impact of Basal Roughness on Inland Thwaites Glacier Sliding. Geophysical Research Letters, 2022, 49, .	4.0	3
3	Grounding zone subglacial properties from calibrated active-source seismic methods. Cryosphere, 2021, 15, 1863-1880.	3.9	6
4	Effect of horizontal divergence on estimates of firn-air content. Journal of Glaciology, 2021, 67, 287-296.	2.2	10
5	Bedforms of Thwaites Glacier, West Antarctica: Character and Origin. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006339.	2.8	12
6	Linking postglacial landscapes to glacier dynamics using swath radar at Thwaites Glacier, Antarctica. Geology, 2020, 48, 268-272.	4.4	49
7	ImpDAR: an open-source impulse radar processor. Annals of Glaciology, 2020, 61, 114-123.	1.4	13
8	A framework for attenuation method selection evaluated with ice-penetrating radar data at South Pole Lake. Annals of Glaciology, 2020, 61, 176-187.	1.4	9
9	Biogeochemical Connectivity Between Freshwater Ecosystems beneath the West Antarctic Ice Sheet and the Subâ€ice Marine Environment. Global Biogeochemical Cycles, 2020, 34, no.	4.9	29
10	Five decades of radioglaciology. Annals of Glaciology, 2020, 61, 1-13.	1.4	74
11	Understanding of Contemporary Regional Sea‣evel Change and the Implications for the Future. Reviews of Geophysics, 2020, 58, e2019RG000672.	23.0	74
12	The contrasting response of outlet glaciers to interior and ocean forcing. Cryosphere, 2020, 14, 2515-2535.	3.9	8
13	Brief communication: Heterogenous thinning and subglacial lake activity on Thwaites Glacier, West Antarctica. Cryosphere, 2020, 14, 4603-4609.	3.9	13
14	A low-cost autonomous rover for polar science. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 149-159.	1.6	4
15	Thermal Weakening, Convergent Flow, and Vertical Heat Transport in the Northeast Greenland Ice Stream Shear Margins. Geophysical Research Letters, 2019, 46, 8184-8193.	4.0	19
16	Ice-cliff failure via retrogressive slumping. Geology, 2019, 47, 449-452.	4.4	30
17	Wet subglacial bedforms of the NE Greenland Ice Stream shear margins. Annals of Glaciology, 2019, 60, 91-99.	1.4	10
18	Influence of North Atlantic climate variability on glacier mass balance in Norway, Sweden and Svalbard. Journal of Glaciology, 2019, 65, 580-594.	2.2	13

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#	Article	IF	CITATIONS
19	Enhanced Firn Densification in Highâ€Accumulation Shear Margins of the NE Greenland Ice Stream. Journal of Geophysical Research F: Earth Surface, 2019, 124, 365-382.	2.8	20
20	Relating bed character and subglacial morphology using seismic data from Thwaites Glacier, West Antarctica. Earth and Planetary Science Letters, 2019, 507, 199-206.	4.4	40
21	Possible Role for Tectonics in the Evolving Stability of the Greenland Ice Sheet. Journal of Geophysical Research F: Earth Surface, 2019, 124, 97-115.	2.8	12
22	Ocean Stratification and Low Melt Rates at the Ross Ice Shelf Grounding Zone. Journal of Geophysical Research: Oceans, 2018, 123, 7438-7452.	2.6	61
23	Persistent tracers of historic ice flow in glacial stratigraphy near Kamb Ice Stream, West Antarctica. Cryosphere, 2018, 12, 2821-2829.	3.9	5
24	How much, how fast?: A science review and outlook for research on the instability of Antarctica's Thwaites Glacier in the 21st century. Global and Planetary Change, 2017, 153, 16-34.	3.5	118
25	GPS-derived estimates of surface mass balance and ocean-induced basal melt for Pine Island Glacier ice shelf, Antarctica. Cryosphere, 2017, 11, 2655-2674.	3.9	16
26	Basal conditions at the grounding zone of Whillans Ice Stream, West Antarctica, from iceâ€penetrating radar. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1954-1983.	2.8	50
27	High basal melting forming a channel at the grounding line of Ross Ice Shelf, Antarctica. Geophysical Research Letters, 2016, 43, 250-255.	4.0	72
28	Constraining attenuation uncertainty in common midpoint radar surveys of ice sheets. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1876-1890.	2.8	9
29	Dynamic perennial firn aquifer on an Arctic glacier. Geophysical Research Letters, 2015, 42, 1418-1426.	4.0	37
30	Tidally driven ice speed variation at Helheim Glacier, Greenland, observed with terrestrial radar interferometry. Journal of Glaciology, 2015, 61, 301-308.	2.2	28
31	Oceanic Forcing of Ice-Sheet Retreat: West Antarctica and More. Annual Review of Earth and Planetary Sciences, 2015, 43, 207-231.	11.0	83
32	Initial results from geophysical surveys and shallow coring of the Northeast Greenland Ice Stream (NEGIS). Cryosphere, 2014, 8, 1275-1287.	3.9	56
33	Dilatant till facilitates ice-stream flow in northeast Greenland. Earth and Planetary Science Letters, 2014, 401, 57-69.	4.4	73
34	A microbial ecosystem beneath the West Antarctic ice sheet. Nature, 2014, 512, 310-313.	27.8	255
35	Morphology of basal crevasses at the grounding zone of Whillans Ice Stream, West Antarctica. Annals of Glaciology, 2014, 55, 57-63.	1.4	15
36	Power loss in dipping internal reflectors, imaged using ice-penetrating radar. Annals of Glaciology, 2014, 55, 49-56.	1.4	40

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37	Basal conditions and ice dynamics inferred from radar-derived internal stratigraphy of the northeast Greenland ice stream. Annals of Glaciology, 2014, 55, 127-137.	1.4	40
38	Identifying flowlines and limitations of flux analyses in the interior of Thwaites Glacier, Antarctica. Annals of Glaciology, 2014, 55, 107-114.	1.4	1
39	Ice-shelf tidal flexure and subglacial pressure variations. Earth and Planetary Science Letters, 2013, 361, 422-428.	4.4	79
40	Accelerated subglacial erosion in response to stick-slip motion. Geology, 2013, 41, 159-162.	4.4	36
41	Estuaries beneath ice sheets. Geology, 2013, 41, 1159-1162.	4.4	58
42	Ice sheet grounding zone stabilization due to till compaction. Geophysical Research Letters, 2013, 40, 5406-5411.	4.0	40
43	Dynamic (in)stability of Thwaites Glacier, West Antarctica. Journal of Geophysical Research F: Earth Surface, 2013, 118, 638-655.	2.8	88
44	Sediment deposition at the modern grounding zone of Whillans Ice Stream, West Antarctica. Geophysical Research Letters, 2013, 40, 3934-3939.	4.0	33
45	Bathymetry and geological structures beneath the Ross Ice Shelf at the mouth of Whillans Ice Stream, West Antarctica, modeled from groundâ€based gravity measurements. Journal of Geophysical Research: Solid Earth, 2013, 118, 4535-4546.	3.4	14
46	Subglacial Lake Whillans — Seismic observations of a shallow active reservoir beneath a West Antarctic ice stream. Earth and Planetary Science Letters, 2012, 331-332, 201-209.	4.4	54
47	Subglacial Lake Whillans — Ice-penetrating radar and GPS observations of a shallow active reservoir beneath a West Antarctic ice stream. Earth and Planetary Science Letters, 2012, 331-332, 237-245.	4.4	66
48	Dynamics of stick–slip motion, Whillans Ice Stream, Antarctica. Earth and Planetary Science Letters, 2011, 305, 283-289.	4.4	60