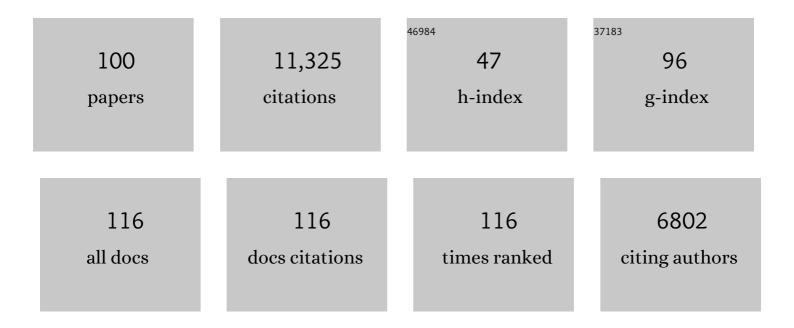
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Randolph Glacier Inventory: a globally complete inventory of glaciers. Journal of Glaciology, 2014, 60, 537-552.	1.1	895
2	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. Geophysical Research Letters, 2017, 44, 11051-11061.	1.5	536
3	Greenland flow variability from ice-sheet-wide velocity mapping. Journal of Glaciology, 2010, 56, 415-430.	1.1	511
4	An improved mass budget for the Greenland ice sheet. Geophysical Research Letters, 2014, 41, 866-872.	1.5	500
5	Fracture Propagation to the Base of the Greenland Ice Sheet During Supraglacial Lake Drainage. Science, 2008, 320, 778-781.	6.0	497
6	Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. Nature Geoscience, 2020, 13, 132-137.	5.4	431
7	Large-scale changes in Greenland outlet glacier dynamics triggered at the terminus. Nature Geoscience, 2009, 2, 110-114.	5.4	427
8	Rapid Changes in Ice Discharge from Greenland Outlet Glaciers. Science, 2007, 315, 1559-1561.	6.0	420
9	The Greenland Ice Mapping Project (GIMP) land classification and surface elevation data sets. Cryosphere, 2014, 8, 1509-1518.	1.5	401
10	Seasonal Speedup Along the Western Flank of the Greenland Ice Sheet. Science, 2008, 320, 781-783.	6.0	383
11	On the recent contribution of the Greenland ice sheet to sea level change. Cryosphere, 2016, 10, 1933-1946.	1.5	358
12	The Reference Elevation Model of Antarctica. Cryosphere, 2019, 13, 665-674.	1.5	357
13	A new bed elevation dataset for Greenland. Cryosphere, 2013, 7, 499-510.	1.5	341
14	21st-Century Evolution of Greenland Outlet Glacier Velocities. Science, 2012, 336, 576-578.	6.0	295
15	Rapid retreat and acceleration of Helheim Glacier, east Greenland. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	246
16	Synchronous retreat and acceleration of southeast Greenland outlet glaciers 2000–06: ice dynamics and coupling to climate. Journal of Glaciology, 2008, 54, 646-660.	1.1	228
17	Annually Resolved Ice Core Records of Tropical Climate Variability over the Past ~1800 Years. Science, 2013, 340, 945-950.	6.0	216
18	Continued evolution of Jakobshavn Isbrae following its rapid speedup. Journal of Geophysical Research, 2008, 113, .	3.3	202

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19	Automated stereo-photogrammetric DEM generation at high latitudes: Surface Extraction with TIN-based Search-space Minimization (SETSM) validation and demonstration over glaciated regions. GIScience and Remote Sensing, 2015, 52, 198-217.	2.4	195
20	Committed sea-level rise for the next century from Greenland ice sheet dynamics during the past decade. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8978-8983.	3.3	189
21	Seasonal variability in the dynamics of marine-terminating outlet glaciers in Greenland. Journal of Glaciology, 2010, 56, 601-613.	1.1	184
22	Submarine melting of the 1985 Jakobshavn Isbrae floating tongue and the triggering of the current retreat. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	183
23	Dynamic ice loss from the Greenland Ice Sheet driven by sustained glacier retreat. Communications Earth & Environment, 2020, 1, .	2.6	153
24	lceâ€front variation and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland. Journal of Geophysical Research, 2008, 113, .	3.3	147
25	Multi-decadal retreat of Greenland's marine-terminating glaciers. Journal of Glaciology, 2011, 57, 389-396.	1.1	145
26	Seasonal to decadal scale variations in the surface velocity of Jakobshavn Isbrae, Greenland: Observation and modelâ€based analysis. Journal of Geophysical Research, 2012, 117, .	3.3	134
27	Rates of southeast Greenland ice volume loss from combined ICESat and ASTER observations. Geophysical Research Letters, 2008, 35, .	1.5	129
28	AÂdaily, 1â€ [–] km resolution data set of downscaled Greenland ice sheet surface mass balance (1958–2015). Cryosphere, 2016, 10, 2361-2377.	1.5	126
29	Mass balance of Greenland's three largest outlet glaciers, 2000-2010. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	116
30	A complete map of Greenland ice velocity derived from satellite data collected over 20 years. Journal of Glaciology, 2018, 64, 1-11.	1.1	114
31	Land Ice Freshwater Budget of the Arctic and North Atlantic Oceans: 1. Data, Methods, and Results. Journal of Geophysical Research: Oceans, 2018, 123, 1827-1837.	1.0	110
32	Supraglacial lakes on the Greenland ice sheet advance inland under warming climate. Nature Climate Change, 2015, 5, 51-55.	8.1	95
33	High sensitivity of tidewater outlet glacier dynamics to shape. Cryosphere, 2013, 7, 1007-1015.	1.5	89
34	Seasonal to decadal variability in ice discharge from the Greenland Ice Sheet. Cryosphere, 2018, 12, 3813-3825.	1.5	83
35	Changes in the dynamics of marine terminating outlet glaciers in west Greenland (2000–2009). Journal of Geophysical Research, 2011, 116, .	3.3	82
36	Elevation change of the Greenland Ice Sheet due to surface mass balance and firn processes, 1960–2014. Cryosphere, 2015, 9, 2009-2025.	1.5	73

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37	A tipping point in refreezing accelerates mass loss of Greenland's glaciers and ice caps. Nature Communications, 2017, 8, 14730.	5.8	72
38	Heterogeneous Changes in Western North American Glaciers Linked to Decadal Variability in Zonal Wind Strength. Geophysical Research Letters, 2019, 46, 200-209.	1.5	70
39	Oceanic mechanical forcing of a marine-terminating Greenland glacier. Annals of Glaciology, 2012, 53, 181-192.	2.8	69
40	Submarine melt rate estimates for floating termini of Greenland outlet glaciers (2000–2010). Journal of Glaciology, 2013, 59, 67-75.	1.1	69
41	<i>Brief Communication</i> "Expansion of meltwater lakes on the Greenland Ice Sheet". Cryosphere, 2013, 7, 201-204.	1.5	68
42	The Surface Extraction from TIN based Search-space Minimization (SETSM) algorithm. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 129, 55-76.	4.9	64
43	Greenland Ice Mapping Project: ice flow velocity variation at sub-monthly to decadal timescales. Cryosphere, 2018, 12, 2211-2227.	1.5	63
44	Efficient Automated Glacier Surface Velocity Measurement From Repeat Images Using Multi-Image/Multichip and Null Exclusion Feature Tracking. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2838-2846.	2.7	55
45	Comparison of Methods to Estimate Snow Water Equivalent at the Mountain Range Scale: A Case Study of the California Sierra Nevada. Journal of Hydrometeorology, 2017, 18, 1101-1119.	0.7	54
46	Changes in the marine-terminating glaciers of central east Greenland, 2000–2010. Cryosphere, 2012, 6, 211-220.	1.5	53
47	Accelerated ice shelf rifting and retreat at Pine Island Glacier, West Antarctica. Geophysical Research Letters, 2016, 43, 11,720.	1.5	48
48	Climate sensitivity of spring snowpack in the Sierra Nevada. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	47
49	Reconstructions of western Ross Sea palaeoâ€iceâ€stream grounding zones from highâ€resolution acoustic stratigraphy. Boreas, 2003, 32, 56-75.	1.2	46
50	Changes in the firn structure of the western Greenland Ice Sheet caused by recent warming. Cryosphere, 2015, 9, 1203-1211.	1.5	46
51	Coastline extraction from repeat high resolution satellite imagery. Remote Sensing of Environment, 2019, 229, 260-270.	4.6	43
52	GPS measurements of crustal uplift near Jakobshavn Isbr $\tilde{A}^{\rm I}_{\rm I}$ due to glacial ice mass loss. Journal of Geophysical Research, 2010, 115, .	3.3	42
53	Winter mass balance of Drangajökull ice cap (NW Iceland) derived from satellite sub-meter stereo images. Cryosphere, 2017, 11, 1501-1517.	1.5	41
54	Dynamic controls on glacier basal motion inferred from surface ice motion. Journal of Geophysical Research, 2008, 113, .	3.3	40

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55	Asynchronous behavior of outlet glaciers feeding Godthåbsfjord (Nuup Kangerlua) and the triggering of Narsap Sermia's retreat in SW Greenland. Journal of Glaciology, 2017, 63, 288-308.	1.1	40
56	Freshwater flux to Sermilik Fjord, SE Greenland. Cryosphere, 2010, 4, 453-465.	1.5	33
57	Trends in spring snowpack over a half-century of climate warming in California, USA. Annals of Glaciology, 2005, 40, 151-156.	2.8	32
58	Detection and Assessment of a Large and Potentially Tsunamigenic Periglacial Landslide in Barry Arm, Alaska. Geophysical Research Letters, 2020, 47, e2020GL089800.	1.5	30
59	Continuously accelerating ice loss over Amundsen Sea catchment, West Antarctica, revealed by integrating altimetry and GRACE data. Earth and Planetary Science Letters, 2012, 321-322, 74-80.	1.8	28
60	Multi-year observations of Breiðamerkurjökull, a marine-terminating glacier in southeastern Iceland, using terrestrial radar interferometry. Journal of Glaciology, 2015, 61, 42-54.	1.1	28
61	A SAR record of early 21st century change in Greenland. Journal of Glaciology, 2016, 62, 62-71.	1.1	26
62	Automatic relative RPC image model bias compensation through hierarchical image matching for improving DEM quality. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 136, 120-133.	4.9	26
63	Automated Coregistration of Repeat Digital Elevation Models for Surface Elevation Change Measurement Using Geometric Constraints. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2247-2260.	2.7	25
64	Measuring Lava Flows With ArcticDEM: Application to the 2012–2013 Eruption of Tolbachik, Kamchatka. Geophysical Research Letters, 2017, 44, 12,133.	1.5	25
65	Terminus dynamics at an advancing glacier: Taku Glacier, Alaska. Journal of Glaciology, 2009, 55, 1052-1060.	1.1	24
66	Brief Communication: Sudden drainage of a subglacial lake beneath the Greenland Ice Sheet. Cryosphere, 2015, 9, 103-108.	1.5	24
67	Geophysical evidence for Holocene lakeâ€level change in southern California (Dry Lake). Boreas, 2010, 39, 131-144.	1.2	23
68	Estimating River Surface Elevation From ArcticDEM. Geophysical Research Letters, 2018, 45, 3107-3114.	1.5	23
69	Improved Multiple Matching Method for Observing Glacier Motion With Repeat Image Feature Tracking. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2431-2441.	2.7	22
70	Performance of Landsat 8 Operational Land Imager for mapping ice sheet velocity. Remote Sensing of Environment, 2015, 170, 90-101.	4.6	20
71	High resolution Greenland ice sheet inter-annual mass variations combining GRACE gravimetry and Envisat altimetry. Earth and Planetary Science Letters, 2015, 422, 11-17.	1.8	19
72	An ice sheet model validation framework for the Greenland ice sheet. Geoscientific Model Development, 2017, 10, 255-270.	1.3	18

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73	Non-linear glacier response to calving events, Jakobshavn Isbræ, Greenland. Journal of Glaciology, 2019, 65, 39-54.	1.1	17
74	Basal Channel Evolution on the Getz Ice Shelf, West Antarctica. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005293.	1.0	16
75	The sensitivity of flowline models of tidewater glaciers to parameter uncertainty. Cryosphere, 2013, 7, 1579-1590.	1.5	15
76	A precipitation-dominated, mid-latitude glacier system: Mount Shasta, California. Climate Dynamics, 2006, 28, 85-98.	1.7	14
77	Observations of inertial currents in a lagoon in southeastern Iceland using terrestrial radar interferometry and automated iceberg tracking. Computers and Geosciences, 2015, 82, 23-30.	2.0	14
78	Autonomous ice sheet surface mass balance measurements from cosmic rays. Cryosphere, 2018, 12, 2099-2108.	1.5	14
79	Ice flow variations at Polar Record Glacier, East Antarctica. Journal of Glaciology, 2019, 65, 279-287.	1.1	14
80	Emerging technology monitors iceâ€sea interface at outlet glaciers. Eos, 2012, 93, 497-498.	0.1	13
81	Improving maps of ice-sheet surface elevation change using combined laser altimeter and stereoscopic elevation model data. Journal of Glaciology, 2013, 59, 524-532.	1.1	13
82	Greenland ice-sheet wide glacier classification based on two distinct seasonal ice velocity behaviors. Journal of Glaciology, 2021, 67, 1241-1248.	1.1	12
83	Constraining ice mass loss from Jakobshavn Isbrae (Greenland) using InSAR-measured crustal uplift. Geophysical Journal International, 2012, 188, 994-1006.	1.0	11
84	Acquisition of a 3 min, two-dimensional glacier velocity field with terrestrial radar interferometry. Journal of Glaciology, 2017, 63, 629-636.	1.1	11
85	Rift in Antarctic Glacier: A Unique Chance to Study Ice Shelf Retreat. Eos, 2012, 93, 77-78.	0.1	9
86	Reconstructions of western Ross Sea palaeo-ice-stream grounding zones from high-resolution acoustic stratigraphy. Boreas, 2003, 32, 56-75.	1.2	9
87	Monitoring a glacier in southeastern Iceland with the portable Terrestrial Radar Interferometer. , 2012, , .		7
88	Complex Patterns of Antarctic Ice Sheet Mass Change Resolved by Timeâ€Dependent Rate Modeling of GRACE and GRACE Followâ€On Observations. Geophysical Research Letters, 2021, 48, .	1.5	7
89	High-Resolution Interannual Mass Anomalies of the Antarctic Ice Sheet by Combining GRACE Gravimetry and ENVISAT Altimetry. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 539-546.	2.7	5
90	Applications of High-Resolution, Cross-Track, Pushbroom Satellite Images With the SETSM Algorithm. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3885-3899.	2.3	5

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91	Filling and drainage of a subglacial lake beneath the Flade Isblink ice cap, northeast Greenland. Cryosphere, 2022, 16, 2671-2681.	1.5	5
92	Formation and development of supraglacial lakes in the percolation zone of the Greenland ice sheet. Journal of Glaciology, 2017, 63, 847-853.	1.1	4
93	Detection of Saturation in High-Resolution Pushbroom Satellite Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1684-1693.	2.3	4
94	Characterization of the 2008 Phreatomagmatic Eruption of Okmok From ArcticDEM and InSAR: Deposition, Erosion, and Deformation. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018977.	1.4	3
95	Empirical correction of systematic orthorectification error in Sentinel-2 velocity fields for Greenlandic outlet glaciers. Cryosphere, 2022, 16, 2629-2642.	1.5	2
96	Quantifying mass flows at Mt. Cleveland, Alaska between 2001 and 2020 using satellite photogrammetry. Journal of Volcanology and Geothermal Research, 2022, 429, 107614.	0.8	1
97	Journal club. Nature, 2010, 466, 799-799.	13.7	Ο
98	Code Optimization and Stabilization for a High-Resolution Terrain Generation Application. , 2018, , .		0
99	Tidewater Glaciers. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 79-91.	0.1	Ο
100	Temporal variability in snow accumulation and density at Summit Camp, Greenland ice sheet. Journal of Glaciology, 0, , 1-9.	1,1	0