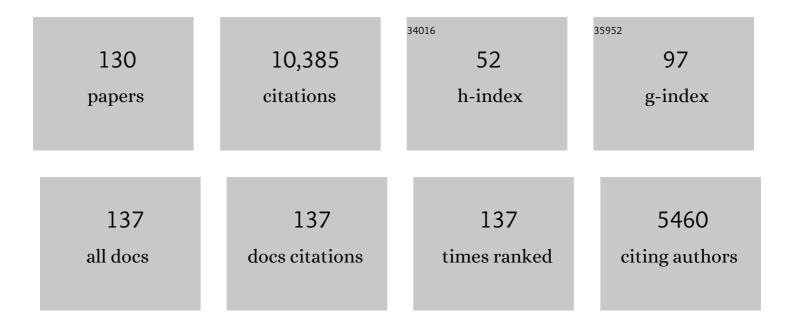
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A regionally resolved inventory of High Mountain Asia surge-type glaciers, derived from a multi-factor remote sensing approach. Cryosphere, 2022, 16, 603-623.	1.5	31
2	Rapid fragmentation of Thwaites Eastern Ice Shelf. Cryosphere, 2022, 16, 2545-2564.	1.5	36
3	Thinning leads to calving-style changes at Bowdoin Glacier, Greenland. Cryosphere, 2021, 15, 485-500.	1.5	10
4	Buoyant calving and ice-contact lake evolution at Pasterze Glacier (Austria) in the period 1998–2019. Cryosphere, 2021, 15, 1237-1258.	1.5	6
5	Marine ice-cliff instability modeling shows mixed-mode ice-cliff failure and yields calving rate parameterization. Nature Communications, 2021, 12, 2701.	5.8	26
6	Surging glaciers in Scotland. Scottish Geographical Journal, 2021, 137, 1-40.	0.4	10
7	A first constraint on basal melt-water production of the Greenland ice sheet. Nature Communications, 2021, 12, 3461.	5.8	33
8	Transition to marine ice cliff instability controlled by ice thickness gradients and velocity. Science, 2021, 372, 1342-1344.	6.0	35
9	Brief communication: Thwaites Glacier cavity evolution. Cryosphere, 2021, 15, 3317-3328.	1.5	8
10	Calving Multiplier Effect Controlled by Melt Undercut Geometry. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006191.	1.0	14
11	Contrasting surface velocities between lake- and land-terminating glaciers in the Himalayan region. Cryosphere, 2021, 15, 5577-5599.	1.5	28
12	Numerical Modeling Shows Increased Fracturing Due to Melt-Undercutting Prior to Major Calving at Bowdoin Glacier. Frontiers in Earth Science, 2020, 8, .	0.8	11
13	PyTrx: A Python-Based Monoscopic Terrestrial Photogrammetry Toolset for Glaciology. Frontiers in Earth Science, 2020, 8, .	0.8	9
14	A cross-validated three-dimensional model of an englacial and subglacial drainage system in a High-Arctic glacier. Journal of Glaciology, 2020, 66, 278-290.	1.1	12
15	Fjords as Aquatic Critical Zones (ACZs). Earth-Science Reviews, 2020, 203, 103145.	4.0	104
16	West Antarctic ice sheet and CO2 greenhouse effect: a threat of disaster. Scottish Geographical Journal, 2020, 136, 13-23.	0.4	3
17	Sensitivity of a calving glacier to ice–ocean interactions under climate change: new insights from a 3-D full-Stokes model. Cryosphere, 2019, 13, 1681-1694.	1.5	23
18	Mass and enthalpy budget evolution during the surge of a polythermal glacier: a test of theory. Journal of Glaciology, 2019, 65, 717-731.	1.1	23

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19	A general theory of glacier surges. Journal of Glaciology, 2019, 65, 701-716.	1.1	71
20	Impact of warming shelf waters on ice mélange and terminus retreat at a large SE Greenland glacier. Cryosphere, 2019, 13, 2303-2315.	1.5	26
21	Sensitivity of Tidewater Glaciers to Submarine Melting Governed by Plume Locations. Geophysical Research Letters, 2019, 46, 11219-11227.	1.5	22
22	Automatic detection of calving events from time-lapse imagery at Tunabreen, Svalbard. Geoscientific Instrumentation, Methods and Data Systems, 2019, 8, 113-127.	0.6	6
23	Calving controlled by melt-under-cutting: detailed calving styles revealed through time-lapse observations. Annals of Glaciology, 2019, 60, 20-31.	2.8	49
24	Physical Conditions of Fast Glacier Flow: 3. Seasonallyâ€Evolving Ice Deformation on Store Glacier, West Greenland. Journal of Geophysical Research F: Earth Surface, 2019, 124, 245-267.	1.0	13
25	Effective Rheology Across the Fragmentation Transition for Sea Ice and Ice Shelves. Geophysical Research Letters, 2019, 46, 13099-13106.	1.5	6
26	Characterization of the englacial and subglacial drainage system in a high Arctic cold glacier by speleological mapping and ground-penetrating radar. Geografiska Annaler, Series A: Physical Geography, 2019, 101, 98-117.	0.6	9
27	Tidewater Glacier Surges Initiated at the Terminus. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1035-1051.	1.0	36
28	Geomorphological investigation of multiphase glacitectonic composite ridge systems in Svalbard. Geomorphology, 2018, 300, 176-188.	1.1	9
29	Calving glaciers and ice shelves. Advances in Physics: X, 2018, 3, 1513819.	1.5	30
30	Multiple Late Holocene surges of a High-Arctic tidewater glacier system in Svalbard. Quaternary Science Reviews, 2018, 201, 162-185.	1.4	17
31	The Iceâ€Free Topography of Svalbard. Geophysical Research Letters, 2018, 45, 11,760.	1.5	32
32	Effects of undercutting and sliding on calving: a global approach applied to Kronebreen, Svalbard. Cryosphere, 2018, 12, 609-625.	1.5	29
33	Glacial geomorphological mapping: A review of approaches and frameworks for best practice. Earth-Science Reviews, 2018, 185, 806-846.	4.0	157
34	Glacier Calving Rates Due to Subglacial Discharge, Fjord Circulation, and Free Convection. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2189-2204.	1.0	26
35	Using structureâ€fromâ€motion to create glacier DEMs and orthoimagery from historical terrestrial and oblique aerial imagery. Earth Surface Processes and Landforms, 2017, 42, 2350-2364.	1.2	46
36	Anatomy of terminal moraine segments and implied lake stability on Ngozumpa Glacier, Nepal, from electrical resistivity tomography (ERT). Scientific Reports, 2017, 7, 46766.	1.6	15

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37	Quantifying suspended sediment concentration in subglacial sediment plumes discharging from two Svalbard tidewater glaciers using Landsat-8 and in situ measurements. International Journal of Remote Sensing, 2017, 38, 6865-6881.	1.3	20
38	Snowball Earth climate dynamics and Cryogenian geology-geobiology. Science Advances, 2017, 3, e1600983.	4.7	424
39	Roughness of a subglacial conduit under Hansbreen, Svalbard. Journal of Glaciology, 2017, 63, 423-435.	1.1	12
40	A conceptual model of supraâ€glacial lake formation on debrisâ€covered glaciers based on GPR facies analysis. Earth Surface Processes and Landforms, 2017, 42, 903-914.	1.2	36
41	Basal dynamics of Kronebreen, a fast-flowing tidewater glacier in Svalbard: non-local spatio-temporal response to water input. Journal of Glaciology, 2017, 63, 1012-1024.	1.1	31
42	Glacier Calving in Greenland. Current Climate Change Reports, 2017, 3, 282-290.	2.8	42
43	Rapidly changing subglacial hydrological pathways at a tidewater glacier revealed through simultaneous observations of water pressure, supraglacial lakes, meltwater plumes and surface velocities. Cryosphere, 2017, 11, 2691-2710.	1.5	49
44	Structure and evolution of the drainage system of aÂHimalayanÂdebris-covered glacier, and its relationshipÂwithÂpatternsÂofÂmassÂloss. Cryosphere, 2017, 11, 2247-2264.	1.5	58
45	Melt-under-cutting and buoyancy-driven calving from tidewater glaciers: new insights from discrete element and continuum model simulations. Journal of Glaciology, 2017, 63, 691-702.	1.1	79
46	Stagnation and mass loss on a Himalayan debris-covered glacier: processes, patterns and rates. Journal of Glaciology, 2016, 62, 467-485.	1.1	109
47	Calving Behavior at Rink Isbræ, West Greenland, from Time-Lapse Photos. Arctic, Antarctic, and Alpine Research, 2016, 48, 263-277.	0.4	31
48	Glacitectonism, subglacial and glacilacustrine processes during a Neoproterozoic panglaciation, northâ€east Svalbard. Sedimentology, 2016, 63, 411-442.	1.6	19
49	Continental carbonate facies of a Neoproterozoic panglaciation, northâ€east Svalbard. Sedimentology, 2016, 63, 443-497.	1.6	37
50	Implications of 36Cl exposure ages from Skye, northwest Scotland for the timing of ice stream deglaciation and deglacial ice dynamics. Quaternary Science Reviews, 2016, 150, 130-145.	1.4	17
51	Calving rates at tidewater glaciers vary strongly with ocean temperature. Nature Communications, 2015, 6, 8566.	5.8	214
52	Thermal structure of Svalbard glaciers and implications for thermal switch models of glacier surging. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2220-2236.	1.0	63
53	Debris entrainment and landform genesis during tidewater glacier surges. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1574-1595.	1.0	31
54	Former dynamic behaviour of a cold-based valley glacier on Svalbard revealed by basal ice and structural glaciology investigations. Journal of Glaciology, 2015, 61, 309-328.	1.1	44

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55	Climatic and geometric controls on the global distribution of surge-type glaciers: implications for a unifying model of surging. Journal of Glaciology, 2015, 61, 646-662.	1.1	215
56	Orbitally forced ice sheet fluctuations during the Marinoan Snowball Earth glaciation. Nature Geoscience, 2015, 8, 704-707.	5.4	59
57	The evolution of a submarine landform record following recent and multiple surges of Tunabreen glacier, Svalbard. Quaternary Science Reviews, 2015, 108, 37-50.	1.4	87
58	Large values of hydraulic roughness in subglacial conduits during conduit enlargement: implications for modeling conduit evolution. Earth Surface Processes and Landforms, 2014, 39, 296-310.	1.2	19
59	Dendritic Subglacial Drainage Systems in Cold Glaciers Formed by Cut-and-Closure Processes. Geografiska Annaler, Series A: Physical Geography, 2014, 96, n/a-n/a.	0.6	8
60	Clast shape analysis and clast transport paths in glacial environments: A critical review of methods and the role of lithology. Earth-Science Reviews, 2013, 121, 96-116.	4.0	86
61	Properties of natural supraglacial debris in relation to modelling subâ€debris ice ablation. Earth Surface Processes and Landforms, 2013, 38, 490-501.	1.2	97
62	Calving retreat and proglacial lake growth at <scp>H</scp> ooker <scp>G</scp> lacier, <scp>S</scp> outhern <scp>A</scp> lps, <scp>N</scp> ew <scp>Z</scp> ealand. New Zealand Geographer, 2013, 69, 14-25.	0.4	7
63	Magnetic fabrics in the basal ice of a surge-type glacier. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2263-2278.	1.0	18
64	GLACIAL LANDFORMS Introduction. , 2013, , 755-768.		0
65	Geochemical characterization of supraglacial debris via in situ and optical remote sensing methods: a case study in Khumbu Himalaya, Nepal. Cryosphere, 2012, 6, 85-100.	1.5	52
66	Basal crevasses in Larsen C Ice Shelf and implications for their global abundance. Cryosphere, 2012, 6, 113-123.	1.5	65
67	Conduit roughness and dye-trace breakthrough curves: why slow velocity and high dispersivity may not reflect flow in distributed systems. Journal of Glaciology, 2012, 58, 915-925.	1.1	23
68	Subaqueous calving margin morphology at Mueller, Hooker and Tasman glaciers in Aoraki/Mount Cook National Park, New Zealand. Journal of Glaciology, 2012, 58, 1037-1046.	1.1	27
69	A rapidly growing moraine-dammed glacial lake on Ngozumpa Glacier, Nepal. Geomorphology, 2012, 145-146, 1-11.	1.1	75
70	Response of debris-covered glaciers in the Mount Everest region to recent warming, and implications for outburst flood hazards. Earth-Science Reviews, 2012, 114, 156-174.	4.0	449
71	Evidence for rapid ice flow and proglacial lake evolution around the central Strait of Magellan region, southernmost Patagonia. Journal of Quaternary Science, 2012, 27, 625-638.	1.1	25
72	Thermal structure and drainage system of a small valley glacier (Tellbreen, Svalbard), investigated by ground penetrating radar. Cryosphere, 2011, 5, 139-149.	1.5	65

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73	Multi-decadal mass loss of glaciers in the Everest area (Nepal Himalaya) derived from stereo imagery. Cryosphere, 2011, 5, 349-358.	1.5	384
74	A physically based calving model applied to marine outlet glaciers and implications for the glacier dynamics. Journal of Glaciology, 2010, 56, 781-794.	1.1	222
75	An ExcelTM spreadsheet program for reconstructing the surface profile of former mountain glaciers and Geosciences, 2010, 36, 605-610.	2.0	141
76	Debris transport by Loch Lomond Readvance glaciers in Northern Scotland: Basin form and the within-valley asymmetry of lateral moraines. Journal of Quaternary Science, 2010, 4, 243-254.	1.1	55
77	Englacial drainage systems formed by hydrologically driven crevasse propagation. Journal of Glaciology, 2009, 55, 513-523.	1.1	85
78	A cut-and-closure origin for englacial conduits in uncrevassed regions of polythermal glaciers. Journal of Glaciology, 2009, 55, 66-80.	1.1	75
79	Mud aprons in front of Svalbard surge moraines: Evidence of subglacial deforming layers or proglacial glaciotectonics?. Geomorphology, 2009, 111, 206-221.	1.1	58
80	Quaternary glaciation of Mount Everest. Quaternary Science Reviews, 2009, 28, 1412-1433.	1.4	111
81	Mechanisms of englacial conduit formation and their implications for subglacial recharge. Quaternary Science Reviews, 2009, 28, 1984-1999.	1.4	89
82	Testing crevasse-depth models: a field study at Breiðamerkurjökull, Iceland. Journal of Glaciology, 2009, 55, 746-752.	1.1	49
83	Surge propagation constrained by a persistent subglacial conduit, Bakaninbreen–Paulabreen, Svalbard. Annals of Glaciology, 2009, 50, 81-86.	2.8	27
84	Submarine landforms characteristic of glacier surges in two Spitsbergen fjords. Quaternary Science Reviews, 2008, 27, 1583-1599.	1.4	126
85	â€~Calving laws', â€~sliding laws' and the stability of tidewater glaciers. Annals of Glaciology, 2007, 46, 123-130.	2.8	160
86	Structural control of englacial drainage systems in Himalayan debris-covered glaciers. Journal of Glaciology, 2007, 53, 399-412.	1.1	85
87	Problems associated with luminescence dating of Late Quaternary glacial sediments in the NW Scottish Highlands. Quaternary Geochronology, 2007, 2, 243-248.	0.6	78
88	Calving processes and the dynamics of calving glaciers. Earth-Science Reviews, 2007, 82, 143-179.	4.0	513
89	Subglacial and proglacial glacitectonic deformation in the Neoproterozoic Port Askaig Formation, Scotland. Geomorphology, 2006, 75, 266-280.	1.1	29
90	Younger Dryas glacial landsystems in North West Scotland: an assessment of modern analogues and palaeoclimatic implications. Quaternary Science Reviews, 2006, 25, 2390-2408.	1.4	94

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91	Pleistocene lake outburst floods and fan formation along the eastern Sierra Nevada, California: implications for the interpretation of intermontane lacustrine records. Quaternary Science Reviews, 2006, 25, 2729-2748.	1.4	45
92	Retreat dynamics of Younger Dryas glaciers in the far NW Scottish Highlands reconstructed from moraine sequences. Scottish Geographical Journal, 2006, 122, 308-325.	0.4	37
93	Calculating ice melt beneath a debris layer using meteorological data. Journal of Glaciology, 2006, 52, 463-470.	1.1	295
94	Calving processes and lake evolution at Miage glacier, Mont Blanc, Italian Alps. Annals of Glaciology, 2005, 40, 207-214.	2.8	26
95	Palaeoclimatic reconstruction from Loch Lomond Readvance glaciers in the West Drumochter Hills, Scotland. Journal of Quaternary Science, 2005, 20, 577-592.	1.1	110
96	Reconstruction of equilibrium-line altitudes for tropical and sub-tropical glaciers. Quaternary International, 2005, 138-139, 8-21.	0.7	188
97	Equilibrium-line altitudes of the Last Glacial Maximum for the Himalaya and Tibet: an assessment and evaluation of results. Quaternary International, 2005, 138-139, 55-78.	0.7	151
98	Subaqueous melt rates at calving termini: a laboratory approach. Annals of Glaciology, 2003, 36, 179-183.	2.8	12
99	Fractal dimensions of diamictic particle-size distributions: Simulations and evaluation. Bulletin of the Geological Society of America, 2002, 114, 528-532.	1.6	15
100	Neoproterozoic glacial-rainout intervals: Observations and implications. Geology, 2002, 30, 35.	2.0	97
101	Himalayan glacial sedimentary environments: a framework for reconstructing and dating the former extent of glaciers in high mountains. Quaternary International, 2002, 97-98, 3-25.	0.7	183
102	Growth and drainage of supraglacial lakes on debris-mantled Ngozumpa Glacier, Khumbu Himal, Nepal. Journal of Glaciology, 2001, 47, 626-638.	1.1	167
103	Random variation of fabric eigenvalues: implications for the use of a-axis fabric data to differentiate till facies. Earth Surface Processes and Landforms, 2001, 26, 295-306.	1.2	34
104	Random variation of fabric eigenvalues: implications for the use of aâ€axis fabric data to differentiate till facies. Earth Surface Processes and Landforms, 2001, 26, 295-306.	1.2	1
105	Glacial Sediment–Landform Associations and Paleoclimate during the Last Glaciation, Strait of Magellan, Chile. Quaternary Research, 2000, 54, 13-23.	1.0	32
106	Timing of late Quaternary glaciations south of Mount Everest in the Khumbu Himal, Nepal. Bulletin of the Geological Society of America, 2000, 112, 1621-1632.	1.6	128
107	Pleistocene glacitectonic landforms and sediments around central Magellan Strait, southernmost Chile: evidence for fast outlet glaciers with cold-based margins. Quaternary Science Reviews, 2000, 19, 591-612.	1.4	52
108	Mass balance and equilibrium-line altitudes of glaciers in high-mountain environments. Quaternary International, 2000, 65-66, 15-29.	0.7	426

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109	The role of the Indian summer monsoon and the mid-latitude westerlies in Himalayan glaciation: review and speculative discussion. Journal of the Geological Society, 1998, 155, 353-363.	0.9	412
110	Glacier fluctuations in western Scotland. Quaternary International, 1997, 38-39, 137-147.	0.7	49
111	Confidence regions for fabric shape diagrams. Journal of Structural Geology, 1997, 19, 1527-1536.	1.0	23
112	The interpretation and classification of subglacially-deformed materials. Quaternary Science Reviews, 1996, 15, 23-52.	1.4	353
113	Glacial sedimentological research in Scotland. Scottish Geographical Journal, 1996, 112, 57-61.	0.4	4
114	Subglacial and subaqueous processes near a glacier grounding line: sedimentological evidence from a former iceâ€dammed lake, Achnasheen Scotland. Boreas, 1996, 25, 23-36.	1.2	62
115	Fabric signature of subglacial till deformation, Breidamerkurjokull, Iceland. Sedimentology, 1995, 42, 735-747.	1.6	170
116	A Loch Lomond Readvance Glacier in Duirinish, NW Skye. Scottish Journal of Geology, 1994, 30, 183-186.	0.1	10
117	Reconstructing the transport history of glacigenic sediments: a new approach based on the co-variance of clast form indices. Sedimentary Geology, 1994, 91, 215-227.	1.0	204
118	Glaciological constraints on protalus rampart development. Permafrost and Periglacial Processes, 1994, 5, 145-153.	1.5	70
119	Fluted moraine formation and till genesis below a temperate valley glacier: Slettmarkbreen, Jotunheimen, southern Norway. Sedimentology, 1994, 41, 279-292.	1.6	168
120	Paraglacial Slope Adjustment and Resedimentation Following Recent Glacier Retreat, Fabergstolsdalen, Norway. Arctic and Alpine Research, 1994, 26, 255.	1.3	147
121	The description and representation of particle shape. Earth Surface Processes and Landforms, 1993, 18, 665-672.	1.2	145
122	Glaciomarine deltaic deposition and ice-marginal tectonics: The †Loch Don Sand Moraine', Isle of Mull, Scotland. Journal of Quaternary Science, 1993, 8, 279-291.	1.1	26
123	Scottish landform examples — 9: Moraines in Coire na Creiche, Isle of Skye. Scottish Geographical Journal, 1993, 109, 187-191.	0.4	8
124	Scottish landform examples — 5: The Achnasheen terraces. Scottish Geographical Journal, 1992, 108, 128-131.	0.4	8
125	The genesis and significance of â€~hummocky moraine': Evidence from the Isle of Skye, Scotland. Quaternary Science Reviews, 1992, 11, 781-799.	1.4	146
126	Glacier response to climatic change during the Loch Lomond Stadial and early Flandrian: Geomorphological and palynological evidence from the Isle of Skye, Scotland. Journal of Quaternary Science, 1992, 7, 125-144.	1.1	90

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127	Structure and Debris Characteristics of Medial Moraines in Jotunheimen, Norway: Implications for Moraine Classification. Journal of Glaciology, 1989, 35, 276-280.	1.1	23
128	Controls on sedimentation in a late Devensian iceâ€dammed lake, Achnasheen, Scotland. Boreas, 1989, 18, 31-42.	1.2	30
129	Something for all spectators? Postgraduate training, selfâ€paced undergraduate fieldwork, reducing staff boredom. Journal of Geography in Higher Education, 1987, 11, 72-78.	1.4	1
130	Glaciers and Glaciation, 2nd edition. , 0, , .		110