

Ian Joughin

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166
papers

15,341
citations

69
h-index

122
g-index

171
ext. papers

17,198
ext. citations

10
avg, IF

6.95
L-index

#	Paper	IF	Citations
166	A reconciled estimate of ice-sheet mass balance. <i>Science</i> , 2012 , 338, 1183-9	33.3	1080
165	Marine ice sheet collapse potentially under way for the Thwaites Glacier Basin, West Antarctica. <i>Science</i> , 2014 , 344, 735-8	33.3	536
164	Greenland flow variability from ice-sheet-wide velocity mapping. <i>Journal of Glaciology</i> , 2010 , 56, 415-430	3.4	451
163	Mass balance of the Antarctic Ice Sheet from 1992 to 2017. <i>Nature</i> , 2018 , 558, 219-222	50.4	442
162	Ice-sheet and sea-level changes. <i>Science</i> , 2005 , 310, 456-60	33.3	412
161	Fracture propagation to the base of the Greenland Ice Sheet during supraglacial lake drainage. <i>Science</i> , 2008 , 320, 778-81	33.3	408
160	Large fluctuations in speed on Greenland's Jakobshavn Isbrae glacier. <i>Nature</i> , 2004 , 432, 608-10	50.4	377
159	Rapid changes in ice discharge from Greenland outlet glaciers. <i>Science</i> , 2007 , 315, 1559-61	33.3	373
158	Large-scale changes in Greenland outlet glacier dynamics triggered at the terminus. <i>Nature Geoscience</i> , 2009 , 2, 110-114	18.3	370
157	Seasonal speedup along the western flank of the Greenland Ice Sheet. <i>Science</i> , 2008 , 320, 781-3	33.3	332
156	An automated, open-source pipeline for mass production of digital elevation models (DEMs) from very-high-resolution commercial stereo satellite imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016 , 116, 101-117	11.8	308
155	Widespread complex flow in the interior of the antarctic ice sheet. <i>Science</i> , 2000 , 287, 1248-50	33.3	287
154	21st-century evolution of Greenland outlet glacier velocities. <i>Science</i> , 2012 , 336, 576-8	33.3	267
153	An inventory of active subglacial lakes in Antarctica detected by ICESat (2003-2008). <i>Journal of Glaciology</i> , 2009 , 55, 573-595	3.4	254
152	Stability of the West Antarctic ice sheet in a warming world. <i>Nature Geoscience</i> , 2011 , 4, 506-513	18.3	219
151	Rapid retreat and acceleration of Helheim Glacier, east Greenland. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	219
150	Future sea-level rise from Greenland's main outlet glaciers in a warming climate. <i>Nature</i> , 2013 , 497, 235-8	50.4	215

149	Changes in ice front position on Greenland's outlet glaciers from 1992 to 2007. <i>Journal of Geophysical Research</i> , 2008 , 113,		212
148	Tributaries of West Antarctic Ice Streams Revealed by RADARSAT Interferometry. <i>Science</i> , 1999 , 286, 283-286	33.3	203
147	High geothermal heat flow, Basal melt, and the origin of rapid ice flow in central Greenland. <i>Science</i> , 2001 , 294, 2338-42	33.3	202
146	Large subglacial lakes in East Antarctica at the onset of fast-flowing ice streams. <i>Nature</i> , 2007 , 445, 904-7	30.4	189
145	Synchronous retreat and acceleration of southeast Greenland outlet glaciers 2000-06: ice dynamics and coupling to climate. <i>Journal of Glaciology</i> , 2008 , 54, 646-660	3.4	183
144	Ice-sheet velocity mapping: a combined interferometric and speckle-tracking approach. <i>Annals of Glaciology</i> , 2002 , 34, 195-201	2.5	179
143	Continued evolution of Jakobshavn Isbrae following its rapid speedup. <i>Journal of Geophysical Research</i> , 2008 , 113,		175
142	Sensitivity of 21st century sea level to ocean-induced thinning of Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	172
141	Interferometric estimation of three-dimensional ice-flow using ascending and descending passes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998 , 36, 25-37	8.1	170
140	Ice-sheet response to oceanic forcing. <i>Science</i> , 2012 , 338, 1172-6	33.3	168
139	Evidence for subglacial water transport in the West Antarctic Ice Sheet through three-dimensional satellite radar interferometry. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	168
138	Positive mass balance of the Ross Ice Streams, West Antarctica. <i>Science</i> , 2002 , 295, 476-80	33.3	159
137	Improved representation of East Antarctic surface mass balance in a regional atmospheric climate model. <i>Journal of Glaciology</i> , 2014 , 60, 761-770	3.4	156
136	Changes in west Antarctic ice stream velocities: Observation and analysis. <i>Journal of Geophysical Research</i> , 2002 , 107, EPM 3-1-EPM 3-22		156
135	Basal shear stress of the Ross ice streams from control method inversions. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		152
134	Basal conditions for Pine Island and Thwaites Glaciers, West Antarctica, determined using satellite and airborne data. <i>Journal of Glaciology</i> , 2009 , 55, 245-257	3.4	151
133	Greenland ice sheet motion coupled with daily melting in late summer. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	148
132	Distinct patterns of seasonal Greenland glacier velocity. <i>Geophysical Research Letters</i> , 2014 , 41, 7209-7216	16.9	141

131	Seasonal speedup of the Greenland Ice Sheet linked to routing of surface water. <i>Earth and Planetary Science Letters</i> , 2011 , 302, 423-428	5.3	134
130	Ice-front variation and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland. <i>Journal of Geophysical Research</i> , 2008 , 113,		132
129	A Mini-Surge on the Ryder Glacier, Greenland, Observed by Satellite Radar Interferometry. <i>Science</i> , 1996 , 274, 228-230	33.3	129
128	Timing of Recent Accelerations of Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	122
127	Rates of southeast Greenland ice volume loss from combined ICESat and ASTER observations. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	117
126	Seasonal to decadal scale variations in the surface velocity of Jakobshavn Isbrae, Greenland: Observation and model-based analysis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		114
125	Kinematic first-order calving law implies potential for abrupt ice-shelf retreat. <i>Cryosphere</i> , 2012 , 6, 273-286	5.5	113
124	Challenges to Understanding the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1131-1144	6.1	111
123	Melting and freezing beneath Filchner-Ronne Ice Shelf, Antarctica. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	110
122	Numerical modeling of ocean-ice interactions under Pine Island Bay's ice shelf. <i>Journal of Geophysical Research</i> , 2007 , 112,		105
121	Estimation of ice-sheet motion using satellite radar interferometry: method and error analysis with application to Humboldt Glacier, Greenland. <i>Journal of Glaciology</i> , 1996 , 42, 564-575	3.4	105
120	Brief Communication: Further summer speedup of Jakobshavn Isbr. <i>Cryosphere</i> , 2014 , 8, 209-214	5.5	104
119	Seasonal speedup of a Greenland marine-terminating outlet glacier forced by surface melt-induced changes in subglacial hydrology. <i>Journal of Geophysical Research</i> , 2011 , 116,		101
118	Mass balance of Greenland's three largest outlet glaciers, 2000-2010. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	100
117	Airborne-radar and ice-core observations of annual snow accumulation over Thwaites Glacier, West Antarctica confirm the spatiotemporal variability of global and regional atmospheric models. <i>Geophysical Research Letters</i> , 2013 , 40, 3649-3654	4.9	99
116	Seasonal to multiyear variability of glacier surface velocity, terminus position, and sea ice/ice mélange in northwest Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 818-833	3.8	93
115	Pine Island glacier ice shelf melt distributed at kilometre scales. <i>Cryosphere</i> , 2013 , 7, 1543-1555	5.5	87
114	Warming of waters in an East Greenland fjord prior to glacier retreat: mechanisms and connection to large-scale atmospheric conditions. <i>Cryosphere</i> , 2011 , 5, 701-714	5.5	87

113	Constraints on the lake volume required for hydro-fracture through ice sheets. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	87
112	Measurement of ice-sheet topography using satellite-radar interferometry. <i>Journal of Glaciology</i> , 1996 , 42, 10-22	3.4	86
111	A simple law for ice-shelf calving. <i>Science</i> , 2008 , 322, 1344	33.3	85
110	Using surface velocities to calculate ice thickness and bed topography: a case study at Columbia Glacier, Alaska, USA. <i>Journal of Glaciology</i> , 2012 , 58, 1151-1164	3.4	83
109	Observation and analysis of ice flow in the largest Greenland ice stream. <i>Journal of Geophysical Research</i> , 2001 , 106, 34021-34034		82
108	Melting and freezing beneath the Ross ice streams, Antarctica. <i>Journal of Glaciology</i> , 2004 , 50, 96-108	3.4	80
107	Continued deceleration of Whillans Ice Stream, West Antarctica. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	79
106	Subglacial sediments: A regional geological template for ice flow in West Antarctica. <i>Geophysical Research Letters</i> , 2001 , 28, 3493-3496	4.9	79
105	Observations of ice-sheet motion in Greenland using satellite radar interferometry. <i>Geophysical Research Letters</i> , 1995 , 22, 571-574	4.9	79
104	Greenland supraglacial lake drainages triggered by hydrologically induced basal slip. <i>Nature</i> , 2015 , 522, 73-6	50.4	78
103	Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica, with airborne observations of snow accumulation. <i>Cryosphere</i> , 2014 , 8, 1375-1392	5.5	76
102	Tides of the Ross Sea and Ross Ice Shelf cavity. <i>Antarctic Science</i> , 2003 , 15, 31-40	1.7	76
101	Rapid response of modern day ice sheets to external forcing. <i>Earth and Planetary Science Letters</i> , 2007 , 257, 1-13	5.3	74
100	Limits to future expansion of surface-melt-enhanced ice flow into the interior of western Greenland. <i>Geophysical Research Letters</i> , 2015 , 42, 1800-1807	4.9	73
99	Changes in the dynamics of marine terminating outlet glaciers in west Greenland (2000-2009). <i>Journal of Geophysical Research</i> , 2011 , 116,		72
98	Influence of ice-sheet geometry and supraglacial lakes on seasonal ice-flow variability. <i>Cryosphere</i> , 2013 , 7, 1185-1192	5.5	69
97	A Complete Map of Greenland Ice Velocity Derived from Satellite Data Collected over 20 Years. <i>Journal of Glaciology</i> , 2018 , 64, 1-11	3.4	65
96	Rheology of the Ronne Ice Shelf, Antarctica, inferred from satellite radar interferometry data using an inverse control method. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	64

95	Contribution to the glaciology of northern Greenland from satellite radar interferometry. <i>Journal of Geophysical Research</i> , 2001 , 106, 34007-34019		64
94	Subglacial conditions during and after stoppage of an Antarctic Ice Stream: Is reactivation imminent?. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	63
93	Measurement of ice-sheet topography using satellite-radar interferometry. <i>Journal of Glaciology</i> , 1996 , 42, 10-22	3.4	60
92	Response of subglacial sediments to basal freeze-on 2. Application in numerical modeling of the recent stoppage of Ice Stream C, West Antarctica. <i>Journal of Geophysical Research</i> , 2003 , 108,		59
91	Seasonal and interannual variations in ice melange and its impact on terminus stability, Jakobshavn Isbr̃ Greenland. <i>Journal of Glaciology</i> , 2015 , 61, 76-88	3.4	57
90	Oceanic controls on the mass balance of Wilkins Ice Shelf, Antarctica. <i>Journal of Geophysical Research</i> , 2012 , 117,		55
89	Integrating satellite observations with modelling: basal shear stress of the Filcher-Ronne ice streams, Antarctica. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 1795-814	3	55
88	Glaciological advances made with interferometric synthetic aperture radar. <i>Journal of Glaciology</i> , 2010 , 56, 1026-1042	3.4	53
87	Tributaries to West Antarctic ice streams: characteristics deduced from numerical modelling of ice flow. <i>Annals of Glaciology</i> , 2000 , 31, 184-190	2.5	53
86	Sensitivity of Pine Island Glacier to observed ocean forcing. <i>Geophysical Research Letters</i> , 2016 , 43, 10,817-10,825	4.9	45
85	Regularized Coulomb Friction Laws for Ice Sheet Sliding: Application to Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2019 , 46, 4764-4771	4.9	48
84	Connected subglacial lake drainage beneath Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2017 , 11, 451-467	5.5	48
83	An analysis of balance velocities over the Greenland ice sheet and comparison with synthetic aperture radar interferometry. <i>Journal of Glaciology</i> , 2000 , 46, 67-74	3.4	48
82	Calving of large tabular icebergs from ice shelf rift systems. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	45
81	East Antarctic ice stream tributary underlain by major sedimentary basin. <i>Geology</i> , 2006 , 34, 33	5	45
80	Subglacial Lake Ellsworth: A candidate for in situ exploration in West Antarctica. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	45
79	Basal melt beneath Whillans Ice Stream and Ice Streams A and C, West Antarctica. <i>Annals of Glaciology</i> , 2003 , 36, 257-262	2.5	42
78	Greenland Ice Mapping Project: Ice Flow Velocity Variation at sub-monthly to decadal time scales. <i>Cryosphere</i> , 2018 , 12, 2211-2227	5.5	42

77	Ice flow direction change in interior West Antarctica. <i>Science</i> , 2004 , 305, 1948-51	33.3	41
76	Synthesizing multiple remote-sensing techniques for subglacial hydrologic mapping: application to a lake system beneath MacAyeal Ice Stream, West Antarctica. <i>Journal of Glaciology</i> , 2010 , 56, 187-199	3.4	40
75	GPS measurements of crustal uplift near Jakobshavn Isbr� due to glacial ice mass loss. <i>Journal of Geophysical Research</i> , 2010 , 115,		40
74	Seasonal and interannual variabilities in terminus position, glacier velocity, and surface elevation at Helheim and Kangerlussuaq Glaciers from 2008 to 2016. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017 , 122, 1635-1652	3.8	39
73	The annual glaciohydrology cycle in the ablation zone of the Greenland ice sheet: Part 1. Hydrology model. <i>Journal of Glaciology</i> , 2011 , 57, 697-709	3.4	39
72	Thickening of the ice stream catchments feeding the Filchner-Ronne Ice Shelf, Antarctica. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	38
71	Weak bed control of the eastern shear margin of Thwaites Glacier, West Antarctica. <i>Journal of Glaciology</i> , 2013 , 59, 900-912	3.4	38
70	Basal resistance for three of the largest Greenland outlet glaciers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 168-180	3.8	37
69	Numerical investigations of the slow-down of Whillans Ice Stream, West Antarctica: is it shutting down like Ice Stream C?. <i>Annals of Glaciology</i> , 2003 , 37, 239-246	2.5	37
68	Bed topography and lubrication inferred from surface measurements on fast-flowing ice streams. <i>Journal of Glaciology</i> , 2003 , 49, 481-490	3.4	36
67	Ice velocity of Jakobshavn Isbr� Petermann Glacier, Nioghalvfjerdingsfjorden, and Zachari�sstr�m, 2015�2017, from Sentinel 1-a/b SAR imagery. <i>Cryosphere</i> , 2018 , 12, 2087-2097	5.5	36
66	Time-evolving mass loss of the Greenland Ice Sheet from satellite altimetry. <i>Cryosphere</i> , 2014 , 8, 1725-1740	5.9	34
65	Increased ice flow in Western Palmer Land linked to ocean melting. <i>Geophysical Research Letters</i> , 2017 , 44, 4159-4167	4.9	33
64	Committed retreat of Smith, Pope, and Kohler Glaciers over the next 30 years inferred by transient model calibration. <i>Cryosphere</i> , 2015 , 9, 2429-2446	5.5	33
63	Ice flow dynamics and surface meltwater flux at a land-terminating sector of the Greenland ice sheet. <i>Journal of Glaciology</i> , 2013 , 59, 687-696	3.4	33
62	Drainage of Southeast Greenland Firn Aquifer Water through Crevasses to the Bed. <i>Frontiers in Earth Science</i> , 2017 , 5,	3.5	32
61	Climate change. Modeling ice-sheet flow. <i>Science</i> , 2012 , 336, 551-2	33.3	32
60	balance velocities of the Greenland Ice Sheet. <i>Geophysical Research Letters</i> , 1997 , 24, 3045-3048	4.9	31

59	Ice sheet record of recent sea-ice behavior and polynya variability in the Amundsen Sea, West Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 118-130	3.3	30
58	Ice-stream-related patterns of ice flow in the interior of northeast Greenland. <i>Journal of Geophysical Research</i> , 2001 , 106, 34035-34045		30
57	Antarctic firn compaction rates from repeat-track airborne radar data: I. Methods. <i>Annals of Glaciology</i> , 2015 , 56, 155-166	2.5	29
56	Distribution of basal melting and freezing beneath tributaries of Ice Stream C: implication for the Holocene decay of the West Antarctic ice sheet. <i>Annals of Glaciology</i> , 2003 , 36, 273-282	2.5	29
55	Seasonal velocities of eight major marine-terminating outlet glaciers of the Greenland ice sheet from continuous in situ GPS instruments. <i>Earth System Science Data</i> , 2013 , 5, 277-287	10.5	28
54	Spatial stability of Ice Stream D and its tributaries, West Antarctica, revealed by radio-echo sounding and interferometry. <i>Annals of Glaciology</i> , 2003 , 37, 377-382	2.5	28
53	A Decade of Variability on Jakobshavn Isbrae: Ocean Temperatures Pace Speed Through Influence on Marginal Rigidity. <i>Cryosphere</i> , 2020 , 14, 211-227	5.5	27
52	Grounding line variability and subglacial lake drainage on Pine Island Glacier, Antarctica. <i>Geophysical Research Letters</i> , 2016 , 43, 9093-9102	4.9	27
51	RADARSAT interferometry for Antarctic grounding-zone mapping. <i>Annals of Glaciology</i> , 2002 , 34, 269-276	6.5	27
50	Climate change. Understanding glacier flow in changing times. <i>Science</i> , 2008 , 322, 1061-2	33.3	26
49	Climate change. Greenland rumbles louder as glaciers accelerate. <i>Science</i> , 2006 , 311, 1719-20	33.3	25
48	Ice flow of Humboldt, Petermann and Ryder Gletscher, northern Greenland. <i>Journal of Glaciology</i> , 1999 , 45, 231-241	3.4	24
47	Englacial latent-heat transfer has limited influence on seaward ice flux in western Greenland. <i>Journal of Glaciology</i> , 2017 , 63, 1-16	3.4	23
46	Recurring dynamically induced thinning during 1985 to 2010 on Upernavik Isstrøm, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013 , 118, 111-121	3.8	23
45	Seismicity on the western Greenland Ice Sheet: Surface fracture in the vicinity of active moulins. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 1082-1106	3.8	22
44	A SAR Record of Early 21 Century Change in Greenland. <i>Journal of Glaciology</i> , 2016 , 62, 62-71	3.4	22
43	Outlet glacier response to forcing over hourly to interannual timescales, Jakobshavn Isbrø Greenland. <i>Journal of Glaciology</i> , 2012 , 58, 1212-1226	3.4	21
42	Tropical Pacific Influence on the Source and Transport of Marine Aerosols to West Antarctica*. <i>Journal of Climate</i> , 2014 , 27, 1343-1363	4.4	20

41	Greenland Ice Sheet flow response to runoff variability. <i>Geophysical Research Letters</i> , 2016 , 43, 11295-11303	19
40	Spatiotemporal interpolation of elevation changes derived from satellite altimetry for Jakobshavn Isbr� Greenland. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a	19
39	Marine Ice Modification of Fringing Ice Shelf Flow. <i>Arctic, Antarctic, and Alpine Research</i> , 2005 , 37, 323-330	17
38	Ionospheric correction of InSAR data for accurate ice velocity measurement at polar regions. <i>Remote Sensing of Environment</i> , 2018 , 209, 166-180	13.2 16
37	A century of geometry and velocity evolution at Eqip Sermia, West Greenland. <i>Journal of Glaciology</i> , 2016 , 62, 640-654	3.4 16
36	GPS-derived estimates of surface mass balance and ocean-induced basal melt for Pine Island Glacier ice shelf, Antarctica. <i>Cryosphere</i> , 2017 , 11, 2655-2674	5.5 15
35	Ice flow of Humboldt, Petermann and Ryder Gletscher, northern Greenland. <i>Journal of Glaciology</i> , 1999 , 45, 231-241	3.4 15
34	Ice shelf basal melt rates from a high-resolution digital elevation model (DEM) record for Pine Island Glacier, Antarctica. <i>Cryosphere</i> , 2019 , 13, 2633-2656	5.5 15
33	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. <i>Remote Sensing</i> , 2018 , 10, 929	5 14
32	Ice flow in the northeast Greenland ice stream. <i>Annals of Glaciology</i> , 2000 , 31, 141-146	2.5 13
31	Marine ice beneath the Filchner-Ronne Ice Shelf, Antarctica: a comparison of estimated thickness distributions. <i>Annals of Glaciology</i> , 2004 , 39, 511-517	2.5 12
30	Changes in flow of Crosson and Dotson ice shelves, West Antarctica, in response to elevated melt. <i>Cryosphere</i> , 2018 , 12, 1415-1431	5.5 11
29	Evolving Environmental and Geometric Controls on Columbia Glacier's Continued Retreat. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018 , 123, 1528-1545	3.8 9
28	Measuring Height Change Around the Periphery of the Greenland Ice Sheet With Radar Altimetry. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5 9
27	Constraining ice mass loss from Jakobshavn Isbr� (Greenland) using InSAR-measured crustal uplift. <i>Geophysical Journal International</i> , 2012 , 188, 994-1006	2.6 9
26	A comparison of balance velocities, measured velocities and thermomechanically modelled velocities for the Greenland ice sheet. <i>Annals of Glaciology</i> , 2000 , 30, 211-216	2.5 9
25	Ice-shelf retreat drives recent Pine Island Glacier speedup. <i>Science Advances</i> , 2021 , 7,	14.3 9
24	The relationship between sticky spots and radar reflectivity beneath an active West Antarctic ice stream. <i>Annals of Glaciology</i> , 2014 , 55, 29-38	2.5 8

23	The role of lateral and vertical shear in tributary flow toward a West Antarctic ice stream. <i>Annals of Glaciology</i> , 2003 , 36, 244-250	2.5	8
22	Kinematic first-order calving law implies potential for abrupt ice-shelf retreat		8
21	Challenges to Understand the Dynamic Response of Greenland's Marine Terminating Glaciers to Oceanic and Atmospheric Forcing. <i>Bulletin of the American Meteorological Society</i> , 130117123745009	6.1	7
20	Observing traveling waves in glaciers with remote sensing: new flexible time series methods and application to Sermeq Kujalleq (Jakobshavn Isbrø), Greenland. <i>Cryosphere</i> , 2021 , 15, 407-429	5.5	7
19	Toward a universal glacier slip law. <i>Science</i> , 2020 , 368, 29-30	33.3	6
18	The proposed DESDynI mission - From science to implementation 2011 ,		6
17	Constraining the recent mass balance of Pine Island and Thwaites glaciers, West Antarctica with airborne observations of snow accumulation		6
16	Influence of supraglacial lakes and ice-sheet geometry on seasonal ice-flow variability		5
15	Brief communication: Heterogeneous thinning and subglacial lake activity on Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2020 , 14, 4603-4609	5.5	5
14	Pine Island Glacier ice shelf melt distributed at kilometre scales		4
13	Melt at grounding line controls observed and future retreat of Smith, Pope, and Kohler glaciers. <i>Cryosphere</i> , 2019 , 13, 2817-2834	5.5	3
12	icepack: a new glacier flow modeling package in Python, version 1.0. <i>Geoscientific Model Development</i> , 2021 , 14, 4593-4616	6.3	3
11	Ice flow of Humboldt, Petermann and Ryder Gletscher, northern Greenland. <i>Journal of Glaciology</i> , 1999 , 45, 231-241	3.4	2
10	Warming of waters in an East Greenland fjord prior to glacier retreat: mechanisms and connection to large-scale atmospheric conditions		2
9	Identifying flowlines and limitations of flux analyses in the interior of Thwaites Glacier, Antarctica. <i>Annals of Glaciology</i> , 2014 , 55, 107-114	2.5	1
8	Estimation of ice-sheet motion using satellite radar interferometry: method and error analysis with application to Humboldt Glacier, Greenland. <i>Journal of Glaciology</i> , 1996 , 42, 564-575	3.4	1
7	Seasonal velocities of eight major marine-terminating outlet glaciers of the Greenland ice sheet from continuous in situ GPS instruments		1
6	Committed near-future retreat of Smith, Pope, and Kohler Glaciers inferred by transient model calibration		1

- 5 Ocean-induced melt volume directly paces ice loss from Pine Island Glacier. *Science Advances*, **2021**, 7, eabi5738 14.3 1
- 4 Multi-decadal retreat of marine-terminating outlet glaciers in northwest and central-west Greenland. *Cryosphere*, **2022**, 16, 807-824 5.5 0
- 3 Interferometric Synthetic Aperture Radar (Insar) Study of the Northeast Greenland Ice Stream 383-384
- 2 An observation-based approach to calculating ice-shelf calving mass flux. *Remote Sensing of Environment*, **2022**, 272, 112918 13.2
- 1 Rapid Retreat and Acceleration of Helheim Glacier, East Greenland. *Collected Reprint Series*, 1-4