

# J L Bamber

## List of Publications by Citations

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221  
papers

13,291  
citations

55  
h-index

111  
g-index

281  
ext. papers

15,089  
ext. citations

6.5  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
221	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , <b>2013</b> , 7, 375-393	5.5	1184
220	Recent Antarctic ice mass loss from radar interferometry and regional climate modelling. <i>Nature Geoscience</i> , <b>2008</b> , 1, 106-110	18.3	707
219	Partitioning recent Greenland mass loss. <i>Science</i> , <b>2009</b> , 326, 984-6	33.3	662
218	Calving fluxes and basal melt rates of Antarctic ice shelves. <i>Nature</i> , <b>2013</b> , 502, 89-92	50.4	399
217	Higher surface mass balance of the Greenland ice sheet revealed by high-resolution climate modeling. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	390
216	Reassessment of the potential sea-level rise from a collapse of the West Antarctic Ice Sheet. <i>Science</i> , <b>2009</b> , 324, 901-3	33.3	365
215	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 11051-11061	4.9	343
214	Reassessment of Net Surface Mass Balance in Antarctica. <i>Journal of Climate</i> , <b>1999</b> , 12, 933-946	4.4	338
213	A new ice thickness and bed data set for the Greenland ice sheet: 1. Measurement, data reduction, and errors. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 33773-33780		320
212	A new bed elevation dataset for Greenland. <i>Cryosphere</i> , <b>2013</b> , 7, 499-510	5.5	291
211	Widespread complex flow in the interior of the antarctic ice sheet. <i>Science</i> , <b>2000</b> , 287, 1248-50	33.3	287
210	Global sea-level budget 1993-present. <i>Earth System Science Data</i> , <b>2018</b> , 10, 1551-1590	10.5	244
209	Recent large increases in freshwater fluxes from Greenland into the North Atlantic. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	234
208	A new 1 km digital elevation model of the Antarctic derived from combined satellite radar and laser data [Part 1: Data and methods. <i>Cryosphere</i> , <b>2009</b> , 3, 101-111	5.5	225
207	Ice sheet contributions to future sea-level rise from structured expert judgment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 11195-11200	11.5	205
206	An expert judgement assessment of future sea level rise from the ice sheets. <i>Nature Climate Change</i> , <b>2013</b> , 3, 424-427	21.4	202
205	JRA-55 based surface dataset for driving ocean-ice models (JRA55-do). <i>Ocean Modelling</i> , <b>2018</b> , 130, 79-139	3	175

204	Sustained mass loss of the northeast Greenland ice sheet triggered by regional warming. <i>Nature Climate Change</i> , <b>2014</b> , 4, 292-299	21.4	171
203	Timing and origin of recent regional ice-mass loss in Greenland. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 333-334, 293-303	5.3	165
202	Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900. <i>Nature</i> , <b>2015</b> , 528, 396-400	50.4	162
201	Emerging impact of Greenland meltwater on deepwater formation in the North Atlantic Ocean. <i>Nature Geoscience</i> , <b>2016</b> , 9, 523-527	18.3	158
200	A new, high-resolution digital elevation model of Greenland fully validated with airborne laser altimeter data. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 6733-6745		158
199	Improved representation of East Antarctic surface mass balance in a regional atmospheric climate model. <i>Journal of Glaciology</i> , <b>2014</b> , 60, 761-770	3.4	156
198	Basal conditions for Pine Island and Thwaites Glaciers, West Antarctica, determined using satellite and airborne data. <i>Journal of Glaciology</i> , <b>2009</b> , 55, 245-257	3.4	151
197	Glacier mass loss. Dynamic thinning of glaciers on the Southern Antarctic Peninsula. <i>Science</i> , <b>2015</b> , 348, 899-903	33.3	147
196	Ice sheet altimeter processing scheme. <i>International Journal of Remote Sensing</i> , <b>1994</b> , 15, 925-938	3.1	140
195	Ice elevation and areal changes of glaciers from the Northern Patagonia Icefield, Chile. <i>Global and Planetary Change</i> , <b>2007</b> , 59, 126-137	4.2	128
194	The land ice contribution to sea level during the satellite era. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 063008	6.2	126
193	Keel depths of modern Antarctic icebergs and implications for sea-floor scouring in the geological record. <i>Marine Geology</i> , <b>2007</b> , 243, 120-131	3.3	121
192	Surface mass balance model intercomparison for the Greenland ice sheet. <i>Cryosphere</i> , <b>2013</b> , 7, 599-614	5.5	120
191	Glacial Isostatic Adjustment over Antarctica from combined ICESat and GRACE satellite data. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 288, 516-523	5.3	113
190	Limits in detecting acceleration of ice sheet mass loss due to climate variability. <i>Nature Geoscience</i> , <b>2013</b> , 6, 613-616	18.3	111
189	Twenty-First-Century Climate Impacts from a Declining Arctic Sea Ice Cover. <i>Journal of Climate</i> , <b>2006</b> , 19, 1109-1125	4.4	111
188	Arctic circulation regimes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	109
187	A review of remote sensing methods for glacier mass balance determination. <i>Global and Planetary Change</i> , <b>2007</b> , 59, 138-148	4.2	107

186	Decreasing cloud cover drives the recent mass loss on the Greenland Ice Sheet. <i>Science Advances</i> , <b>2017</b> , 3, e1700584	14.3	100
185	Antarctic ice-shelf thickness from satellite radar altimetry. <i>Journal of Glaciology</i> , <b>2011</b> , 57, 485-498	3.4	96
184	An improved elevation dataset for climate and ice-sheet modelling: validation with satellite imagery. <i>Annals of Glaciology</i> , <b>1997</b> , 25, 439-444	2.5	90
183	Balance velocities and measured properties of the Antarctic ice sheet from a new compilation of gridded data for modelling. <i>Annals of Glaciology</i> , <b>2000</b> , 30, 52-60	2.5	87
182	A surface mass balance model for the Greenland Ice Sheet. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		83
181	Observation and analysis of ice flow in the largest Greenland ice stream. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 34021-34034		82
180	Geodetic measurements reveal similarities between post-Last Glacial Maximum and present-day mass loss from the Greenland ice sheet. <i>Science Advances</i> , <b>2016</b> , 2, e1600931	14.3	79
179	An improved elevation dataset for climate and ice-sheet modelling: validation with satellite imagery. <i>Annals of Glaciology</i> , <b>1997</b> , 25, 439-444	2.5	76
178	Rapid response of modern day ice sheets to external forcing. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 257, 1-13	5.3	74
177	Land Ice Freshwater Budget of the Arctic and North Atlantic Oceans: 1. Data, Methods, and Results. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 1827-1837	3.3	72
176	Antarctic ice-mass balance 2003 to 2012: regional reanalysis of GRACE satellite gravimetry measurements with improved estimate of glacial-isostatic adjustment based on GPS uplift rates. <i>Cryosphere</i> , <b>2013</b> , 7, 1499-1512	5.5	70
175	Aerial photographs reveal late-20th-century dynamic ice loss in northwestern Greenland. <i>Science</i> , <b>2012</b> , 337, 569-73	33.3	70
174	Influence of ice-sheet geometry and supraglacial lakes on seasonal ice-flow variability. <i>Cryosphere</i> , <b>2013</b> , 7, 1185-1192	5.5	69
173	Spatial and temporal Antarctic Ice Sheet mass trends, glacio-isostatic adjustment, and surface processes from a joint inversion of satellite altimeter, gravity, and GPS data. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2016</b> , 121, 182-200	3.8	68
172	Sea-level fingerprint of continental water and ice mass change from GRACE. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	66
171	Evidence of a hydrological connection between the ice divide and ice sheet margin in the Aurora Subglacial Basin, East Antarctica. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		57
170	The sea level fingerprint of recent ice mass fluxes. <i>Cryosphere</i> , <b>2010</b> , 4, 621-627	5.5	57
169	Impact of model physics on estimating the surface mass balance of the Greenland ice sheet. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	56

168	The accuracy of digital elevation models of the Antarctic continent. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 237, 516-523	5.3	56
167	Potential climatic transitions with profound impact on Europe. <i>Climatic Change</i> , <b>2012</b> , 110, 845-878	4.5	55
166	Paleofluvial mega-canyon beneath the central Greenland ice sheet. <i>Science</i> , <b>2013</b> , 341, 997-9	33.3	55
165	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> , <b>2006</b> , 364, 1795-814	3	55
164	Ice-elevation changes of Glaciar Chico, southern Patagonia, using ASTER DEMs, aerial photographs and GPS data. <i>Journal of Glaciology</i> , <b>2005</b> , 51, 105-112	3.4	55
163	Anomalous recent growth of part of a large Arctic ice cap: Austfonna, Svalbard. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	53
162	Greenland subglacial lakes detected by radar. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6154-6159	4.9	49
161	Greenland freshwater pathways in the sub-Arctic Seas from model experiments with passive tracers. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 877-907	3.3	48
160	Elevation changes measured on Svalbard glaciers and ice caps from airborne laser data. <i>Annals of Glaciology</i> , <b>2005</b> , 42, 202-208	2.5	48
159	An analysis of balance velocities over the Greenland ice sheet and comparison with synthetic aperture radar interferometry. <i>Journal of Glaciology</i> , <b>2000</b> , 46, 67-74	3.4	48
158	Ice Sheets and Sea Level: Thinking Outside the Box. <i>Surveys in Geophysics</i> , <b>2011</b> , 32, 495-505	7.6	46
157	Dark ice dynamics of the south-west Greenland Ice Sheet. <i>Cryosphere</i> , <b>2017</b> , 11, 2491-2506	5.5	45
156	Geodetic corrections to Amazon River water level gauges using ICESat altimetry. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	45
155	The gravitationally consistent sea-level fingerprint of future terrestrial ice loss. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 482-486	4.9	45
154	East Antarctic ice stream tributary underlain by major sedimentary basin. <i>Geology</i> , <b>2006</b> , 34, 33	5	45
153	Subglacial water at the heads of Antarctic ice-stream tributaries. <i>Journal of Glaciology</i> , <b>2000</b> , 46, 702-703	3.4	45
152	Geothermal Heat Flux Reveals the Iceland Hotspot Track Underneath Greenland. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 8214-8222	4.9	43
151	A new ice thickness and bed data set for the Greenland ice sheet: 2. Relationship between dynamics and basal topography. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 33781-33788		43

150	A new 1 km digital elevation model of Antarctica derived from combined radar and laser data [Part 2: Validation and error estimates. <i>Cryosphere</i> , <b>2009</b> , 3, 113-123	5.5	42
149	Testing hypotheses of the cause of peripheral thinning of the Greenland Ice Sheet: is land-terminating ice thinning at anomalously high rates?. <i>Cryosphere</i> , <b>2008</b> , 2, 205-218	5.5	42
148	An assessment of forward and inverse GIA solutions for Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 6947-6965	3.6	38
147	Thickening of the ice stream catchments feeding the Filchner-Ronne Ice Shelf, Antarctica. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	38
146	Self-affine subglacial roughness: consequences for radar scattering and basal water discrimination in northern Greenland. <i>Cryosphere</i> , <b>2017</b> , 11, 1247-1264	5.5	37
145	Meltwater pathways from marine terminating glaciers of the Greenland ice sheet. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10,873-10,882	4.9	37
144	Geometric boundary conditions for modelling the velocity field of the Antarctic ice sheet. <i>Annals of Glaciology</i> , <b>1996</b> , 23, 364-373	2.5	35
143	Time-evolving mass loss of the Greenland Ice Sheet from satellite altimetry. <i>Cryosphere</i> , <b>2014</b> , 8, 1725-1740	5.5	34
142	Short-term impacts of enhanced Greenland freshwater fluxes in an eddy-permitting ocean model. <i>Ocean Science</i> , <b>2010</b> , 6, 749-760	4	34
141	Brief communication Greenland's shrinking ice cover: "fast times" but not that fast. <i>Cryosphere</i> , <b>2012</b> , 6, 533-537	5.5	34
140	A digital elevation model of the Antarctic ice sheet derived from ERS-1 altimeter data and comparison with terrestrial measurements. <i>Annals of Glaciology</i> , <b>1994</b> , 20, 48-54	2.5	34
139	A digital elevation model of the Antarctic ice sheet derived from ERS-1 altimeter data and comparison with terrestrial measurements		34
138	Modeling the instantaneous response of glaciers after the collapse of the Larsen B Ice Shelf. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5355-5363	4.9	33
137	Ice/Bed Interface and Englacial Properties of Svalbard Ice Masses Deduced from Airborne Radio Echo-Sounding Data. <i>Journal of Glaciology</i> , <b>1989</b> , 35, 30-37	3.4	33
136	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica		31
135	Role of Greenland Freshwater Anomaly in the Recent Freshening of the Subpolar North Atlantic. <i>Journal of Geophysical Research: Oceans</i> , <b>2019</b> , 124, 3333-3360	3.3	30
134	Simulation of the time-variable gravity field by means of coupled geophysical models. <i>Earth System Science Data</i> , <b>2011</b> , 3, 19-35	10.5	30
133	Antarctic ice shelf thickness from CryoSat-2 radar altimetry. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 10,721-10,729	5.5	29

132	The accuracy of satellite radar altimeter data over the Greenland Ice Sheet determined from airborne laser data. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3177-3180	4.9	29
131	Brief communication &quot;Importance of slope-induced error correction in volume change estimates from radar altimetry&quot;,. <i>Cryosphere</i> , <b>2012</b> , 6, 447-451	5.5	28
130	Ice shelf thickness over Larsen C, Antarctica, derived from satellite altimetry. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	27
129	The sea-level conundrum: case studies from palaeo-archives. <i>Journal of Quaternary Science</i> , <b>2010</b> , 25, 19-25	2.3	26
128	A constraint upon the basal water distribution and thermal state of the Greenland Ice Sheet from radar bed echoes. <i>Cryosphere</i> , <b>2018</b> , 12, 2831-2854	5.5	26
127	Exploration of parametric uncertainty in a surface mass balance model applied to the Greenland ice sheet. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		25
126	Basal conditions beneath enhanced-flow tributaries of Slessor Glacier, East Antarctica. <i>Journal of Glaciology</i> , <b>2006</b> , 52, 481-490	3.4	25
125	A comparison of basal reflectivity and ice velocity in East Antarctica. <i>Cryosphere</i> , <b>2010</b> , 4, 447-452	5.5	24
124	Subglacial topography inferred from ice surface terrain analysis reveals a large un-surveyed basin below sea level in East Antarctica. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	24
123	Evidence for ice flow prior to trough formation in the martian north polar layered deposits. <i>Icarus</i> , <b>2008</b> , 195, 90-105	3.8	24
122	Basal topography and ice flow in the Bailey/Slessor region of East Antarctica. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		24
121	Recurring dynamically induced thinning during 1985 to 2010 on Upernavik Isstr�m, West Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 111-121	3.8	23
120	The impact of a seasonally ice free Arctic Ocean on the temperature, precipitation and surface mass balance of Svalbard. <i>Cryosphere</i> , <b>2012</b> , 6, 35-50	5.5	22
119	Accuracy and Performance of CryoSat-2 SARIn Mode Data Over Antarctica. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2015</b> , 12, 1516-1520	4.1	21
118	Joint inversion estimate of regional glacial isostatic adjustment in Antarctica considering a lateral varying Earth structure (ESA STSE Project REGINA). <i>Geophysical Journal International</i> , <b>2017</b> , 211, 1534-1553	2.6	21
117	Tracking water level changes of the Amazon Basin with space-borne remote sensing and integration with large scale hydrodynamic modelling: A review. <i>Physics and Chemistry of the Earth</i> , <b>2011</b> , 36, 223-231	3	21
116	Combined GRACE and InSAR estimate of West Antarctic ice mass loss. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		21
115	Cloud microphysics and circulation anomalies control differences in future Greenland melt. <i>Nature Climate Change</i> , <b>2019</b> , 9, 523-528	21.4	20

114	Constraining the mass balance of East Antarctica. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4168-4175	4.9	20
113	Switch-off of a major enhanced ice flow unit in East Antarctica. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	20
112	A new global GPS data set for testing and improving modelled GIA uplift rates. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 2164-2176	2.6	19
111	A data-driven approach for assessing ice-sheet mass balance in space and time. <i>Annals of Glaciology</i> , <b>2015</b> , 56, 175-183	2.5	19
110	Spatiotemporal interpolation of elevation changes derived from satellite altimetry for Jakobshavn Isbr̃ Greenland. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		19
109	Improved ice loss estimate of the northwestern Greenland ice sheet. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 698-708	3.6	19
108	Subglacial geology in Coats Land, East Antarctica, revealed by airborne magnetics and radar sounding. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 244, 323-335	5.3	19
107	The englacial stratigraphy of Wilkes Land, East Antarctica, as revealed by internal radio-echo sounding layering, and its relationship with balance velocities. <i>Annals of Glaciology</i> , <b>2003</b> , 36, 189-196	2.5	19
106	Modelling land-ice surface mass balance <b>2004</b> , 117-168		19
105	Subglacial hydrological connectivity within the Byrd Glacier catchment, East Antarctica. <i>Journal of Glaciology</i> , <b>2014</b> , 60, 345-352	3.4	18
104	Multivariate spatio-temporal modelling for assessing Antarctica's present-day contribution to sea-level rise. <i>Environmetrics</i> , <b>2015</b> , 26, 159-177	1.3	18
103	Onset of Streaming Flow in the Siple Coast Region, West Antarctica. <i>Antarctic Research Series</i> , <b>2013</b> , 123-136		18
102	The role of ice thickness and bed properties on the dynamics of the enhanced-flow tributaries of Bailey Ice Stream and Slessor Glacier, East Antarctica. <i>Annals of Glaciology</i> , <b>2004</b> , 39, 366-372	2.5	18
101	An ice-sheet-wide framework for englacial attenuation from ice-penetrating radar data. <i>Cryosphere</i> , <b>2016</b> , 10, 1547-1570	5.5	18
100	Global ocean freshening, ocean mass increase and global mean sea level rise over 2005-2015. <i>Scientific Reports</i> , <b>2019</b> , 9, 17717	4.9	18
99	Centennial response of Greenland's three largest outlet glaciers. <i>Nature Communications</i> , <b>2020</b> , 11, 5718	7.4	17
98	River inundation suggests ice-sheet runoff retention. <i>Journal of Glaciology</i> , <b>2015</b> , 61, 776-788	3.4	16
97	The Greenland Ice Sheet's surface mass balance in a seasonally sea ice-free Arctic. <i>Journal of Geophysical Research F: Earth Surface</i> , <b>2013</b> , 118, 1533-1544	3.8	16



96	Seasonal variations in sea level induced by continental water mass: First results from GRACE. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	16
95	A new bedrock and surface elevation dataset for modelling the Greenland ice sheet. <i>Annals of Glaciology</i> , <b>2003</b> , 37, 351-356	2.5	16
94	An investigation of the small ice cap instability in the Southern Hemisphere with a coupled atmosphere-sea ice-ocean-terrestrial ice model. <i>Climate Dynamics</i> , <b>1998</b> , 14, 329-352	4.2	15
93	CryoSat Ice Baseline-D validation and evolutions. <i>Cryosphere</i> , <b>2020</b> , 14, 1889-1907	5.5	15
92	Recent progress in understanding climate thresholds: Ice sheets, the Atlantic meridional overturning circulation, tropical forests and responses to ocean acidification. <i>Progress in Physical Geography</i> , <b>2018</b> , 42, 24-60	3.5	14
91	Resolving the Antarctic contribution to sea-level rise: a hierarchical modelling framework. <i>Environmetrics</i> , <b>2014</b> , 25, 245-264	1.3	14
90	Sources of 21st century regional sea-level rise along the coast of northwest Europe. <i>Ocean Science</i> , <b>2014</b> , 10, 473-483	4	14
89	Assessment of Cloud Cover Characteristics in Satellite Datasets and Reanalysis Products for Greenland. <i>Journal of Climate</i> , <b>2008</b> , 21, 1837-1849	4.4	14
88	Paleofluvial landscape inheritance for Jakobshavn Isbræt catchment, Greenland. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6350-6357	4.9	14
87	Generating synthetic fjord bathymetry for coastal Greenland. <i>Cryosphere</i> , <b>2017</b> , 11, 363-380	5.5	13
86	Using internal layers from the Greenland ice sheet, identified from radio-echo sounding data, with numerical models. <i>Annals of Glaciology</i> , <b>2003</b> , 37, 325-330	2.5	13
85	Ice flow in the northeast Greenland ice stream. <i>Annals of Glaciology</i> , <b>2000</b> , 31, 141-146	2.5	13
84	The delineation of drainage basins on the Greenland ice sheet for mass-balance analyses using a combined modelling and geographical information system approach. <i>Hydrological Processes</i> , <b>2000</b> , 14, 1931-1941	3.3	13
83	Can We Resolve the Basin-Scale Sea Level Trend Budget From GRACE Ocean Mass?. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015535	3.3	13
82	Subglacial roughness of the Greenland Ice Sheet: relationship with contemporary ice velocity and geology. <i>Cryosphere</i> , <b>2019</b> , 13, 3093-3115	5.5	13
81	Mass balance reassessment of glaciers draining into the Abbot and Getz Ice Shelves of West Antarctica. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7328-7337	4.9	12
80	EOF analysis of three records of sea-ice concentration spanning the last 30 years. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	12
79	Interpretation of the anomalous growth of Austfonna, Svalbard, a large Arctic ice cap. <i>Annals of Glaciology</i> , <b>2005</b> , 42, 373-379	2.5	12

78	Derivation and optimization of a new Antarctic sea-ice record. <i>International Journal of Remote Sensing</i> , <b>2001</b> , 22, 113-139	3.1	12
77	On the glaciology of Edgeøya and Barentsøya, Svalbard. <i>Polar Research</i> , <b>1995</b> , 14, 105-122	2	12
76	The Atmospheric Impact of Uncertainties in Recent Arctic Sea Ice Reconstructions. <i>Journal of Climate</i> , <b>2005</b> , 18, 3996-4012	4.4	11
75	Unsteady flow inferred for Thwaites Glacier, and comparison with Pine Island Glacier, West Antarctica. <i>Journal of Glaciology</i> , <b>2002</b> , 48, 237-246	3.4	11
74	The impact of cloud cover on the net radiation budget of the Greenland ice sheet. <i>Annals of Glaciology</i> , <b>2002</b> , 34, 141-149	2.5	11
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