

Philippe Huybrechts

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

13,929
citations

62
h-index

116
g-index

216
ext. papers

15,540
ext. citations

6.1
avg, IF

6.68
L-index

#	Paper	IF	Citations
183	Eight glacial cycles from an Antarctic ice core. <i>Nature</i> , 2004 , 429, 623-8	50.4	1694
182	One-to-one coupling of glacial climate variability in Greenland and Antarctica. <i>Nature</i> , 2006 , 444, 195-8	50.4	966
181	Sea-level changes at the LGM from ice-dynamic reconstructions of the Greenland and Antarctic ice sheets during the glacial cycles. <i>Quaternary Science Reviews</i> , 2002 , 21, 203-231	3.9	483
180	Eemian interglacial reconstructed from a Greenland folded ice core. <i>Nature</i> , 2013 , 493, 489-94	50.4	474
179	Ice-sheet and sea-level changes. <i>Science</i> , 2005 , 310, 456-60	33.3	412
178	Increased Runoff from Melt from the Greenland Ice Sheet: A Response to Global Warming. <i>Journal of Climate</i> , 2008 , 21, 331-341	4.4	333
177	The Dynamic Response of the Greenland and Antarctic Ice Sheets to Multiple-Century Climatic Warming. <i>Journal of Climate</i> , 1999 , 12, 2169-2188	4.4	299
176	Greenland Ice Sheet: Increased coastal thinning. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	275
175	Melt-induced speed-up of Greenland ice sheet offset by efficient subglacial drainage. <i>Nature</i> , 2011 , 469, 521-4	50.4	261
174	Modelling the response of glaciers to climate warming. <i>Climate Dynamics</i> , 1998 , 14, 267-274	4.2	248
173	A 3-D model for the Antarctic ice sheet: a sensitivity study on the glacial-interglacial contrast. <i>Climate Dynamics</i> , 1990 , 5, 79-92	4.2	237
172	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. <i>Geoscientific Model Development</i> , 2010 , 3, 603-633	6.3	219
171	Runoff and mass balance of the Greenland ice sheet: 1958-2003. <i>Journal of Geophysical Research</i> , 2005 , 110,		196
170	Contributions from glacially derived sediment to the global iron (oxyhydr)oxide cycle: Implications for iron delivery to the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 2765-2780	5.5	188
169	Climatology: threatened loss of the Greenland ice-sheet. <i>Nature</i> , 2004 , 428, 616	50.4	187
168	Elimination of the Greenland Ice Sheet in a High CO2 Climate. <i>Journal of Climate</i> , 2005 , 18, 3409-3427	4.4	178
167	The treatment of meltwater retention in mass-balance parameterizations of the Greenland ice sheet. <i>Annals of Glaciology</i> , 2000 , 31, 133-140	2.5	167

166	Results from the EISMINT model intercomparison: the effects of thermomechanical coupling. <i>Journal of Glaciology</i> , 2000 , 46, 227-238	3.4	162
165	Twentieth-Century Global-Mean Sea Level Rise: Is the Whole Greater than the Sum of the Parts?. <i>Journal of Climate</i> , 2013 , 26, 4476-4499	4.4	158
164	Grounding-line migration in plan-view marine ice-sheet models: results of the ice2sea MISIMP3d intercomparison. <i>Journal of Glaciology</i> , 2013 , 59, 410-422	3.4	157
163	Results of the Marine Ice Sheet Model Intercomparison Project, MISIMP. <i>Cryosphere</i> , 2012 , 6, 573-588	5.5	157
162	Calibrating a glaciological model of the Greenland ice sheet from the Last Glacial Maximum to present-day using field observations of relative sea level and ice extent. <i>Quaternary Science Reviews</i> , 2009 , 28, 1631-1657	3.9	157
161	The influence of North Atlantic atmospheric and oceanic forcing effects on 1900-2010 Greenland summer climate and ice melt/runoff. <i>International Journal of Climatology</i> , 2013 , 33, 862-880	3.5	155
160	Ice-sheet contributions to future sea-level change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 1709-31	3	155
159	The EISMINT benchmarks for testing ice-sheet models. <i>Annals of Glaciology</i> , 1996 , 23, 1-12	2.5	151
158	Ocean regulation hypothesis for glacier dynamics in southeast Greenland and implications for ice sheet mass changes. <i>Journal of Geophysical Research</i> , 2010 , 115,		144
157	A model of Greenland ice sheet deglaciation constrained by observations of relative sea level and ice extent. <i>Quaternary Science Reviews</i> , 2014 , 102, 54-84	3.9	138
156	A comparison of different ways of dealing with isostasy: examples from modelling the Antarctic ice sheet during the last glacial cycle. <i>Annals of Glaciology</i> , 1996 , 23, 309-317	2.5	136
155	“EDML1”: a chronology for the EPICA deep ice core from Dronning Maud Land, Antarctica, over the last 150 000 years. <i>Climate of the Past</i> , 2007 , 3, 475-484	3.9	130
154	Marine-terminating glaciers sustain high productivity in Greenland fjords. <i>Global Change Biology</i> , 2017 , 23, 5344-5357	11.4	124
153	Implications of changes in freshwater flux from the Greenland ice sheet for the climate of the 21st century. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	124
152	Surface mass balance model intercomparison for the Greenland ice sheet. <i>Cryosphere</i> , 2013 , 7, 599-614	5.5	120
151	Modelling Antarctic and Greenland volume changes during the 20th and 21st centuries forced by GCM time slice integrations. <i>Global and Planetary Change</i> , 2004 , 42, 83-105	4.2	119
150	High Arctic Holocene temperature record from the Agassiz ice cap and Greenland ice sheet evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5952-5957	11.5	111
149	The Greenland ice sheet and greenhouse warming. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1991 , 89, 399-412	2.9	107

148	Evolution of supra-glacial lakes across the Greenland Ice Sheet. <i>Remote Sensing of Environment</i> , 2009 , 113, 2164-2171	13.2	104
147	Greenland Ice Sheet surface mass balance 1870 to 2010 based on Twentieth Century Reanalysis, and links with global climate forcing. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		103
146	Thermomechanical modelling of Northern Hemisphere ice sheets with a two-level mass-balance parameterization. <i>Annals of Glaciology</i> , 1995 , 21, 111-116	2.5	103
145	Hydrologic response of the Greenland ice sheet: the role of oceanographic warming. <i>Hydrological Processes</i> , 2009 , 23, 7-30	3.3	99
144	Steady-state characteristics of the Greenland ice sheet under different climates. <i>Journal of Glaciology</i> , 1991 , 37, 149-157	3.4	97
143	Modeling the influence of Greenland ice sheet melting on the Atlantic meridional overturning circulation during the next millennia. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	96
142	The present evolution of the Greenland ice sheet: an assessment by modelling. <i>Global and Planetary Change</i> , 1994 , 9, 39-51	4.2	94
141	Sensitivity of Greenland Ice Sheet Projections to Model Formulations. <i>Journal of Glaciology</i> , 2013 , 59, 733-749	3.4	91
140	Thresholds for irreversible decline of the Greenland ice sheet. <i>Climate Dynamics</i> , 2010 , 35, 1049-1057	4.2	88
139	Modeling of the northern hemisphere ice sheets during the last glacial cycle and glaciological sensitivity. <i>Journal of Geophysical Research</i> , 2005 , 110,		87
138	Balance velocities and measured properties of the Antarctic ice sheet from a new compilation of gridded data for modelling. <i>Annals of Glaciology</i> , 2000 , 30, 52-60	2.5	87
137	Glaciological Modelling of the Late Cenozoic East Antarctic Ice Sheet: Stability or Dynamism?. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993 , 75, 221	1.1	86
136	Steady-state characteristics of the Greenland ice sheet under different climates. <i>Journal of Glaciology</i> , 1991 , 37, 149-157	3.4	84
135	The Greenland ice sheet and greenhouse warming. <i>Global and Planetary Change</i> , 1991 , 3, 399-412	4.2	76
134	Ice-dynamic projections of the Greenland ice sheet in response to atmospheric and oceanic warming. <i>Cryosphere</i> , 2015 , 9, 1039-1062	5.5	72
133	Estimation of the Greenland ice sheet surface mass balance for the 20th and 21st centuries. <i>Cryosphere</i> , 2008 , 2, 117-129	5.5	72
132	Enhanced basal lubrication and the contribution of the Greenland ice sheet to future sea-level rise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14156-61	11.5	71
131	The EISMINT benchmarks for testing ice-sheet models. <i>Annals of Glaciology</i> , 1996 , 23, 1-12	2.5	71

130	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century. <i>Cryosphere</i> , 2020 , 14, 3033-3070	5.5	71
129	The Greenland ice sheet through the last glacial-interglacial cycle. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1991 , 90, 385-394	2.9	69
128	Response of the Antarctic ice sheet to future greenhouse warming. <i>Climate Dynamics</i> , 1990 , 5, 93-102	4.2	68
127	Antarctic ice-sheet melting provides negative feedbacks on future climate warming. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	67
126	Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison. <i>Cryosphere</i> , 2019 , 12, 1433-1460	5.5	67
125	Response of the Greenland and Antarctic Ice Sheets to Multi-Millennial Greenhouse Warming in the Earth System Model of Intermediate Complexity LOVECLIM. <i>Surveys in Geophysics</i> , 2011 , 32, 397-416	7.6	65
124	Evolution of the East Antarctic Ice Sheet: A Numerical Study of Thermo-Mechanical Response Patterns With Changing Climate. <i>Annals of Glaciology</i> , 1988 , 11, 52-59	2.5	65
123	The response of the southern Greenland ice sheet to the Holocene thermal maximum. <i>Geology</i> , 2015 , 43, 291-294	5	63
122	Synchronisation of the EDML and EDC ice cores for the last 52 kyr by volcanic signature matching. <i>Climate of the Past</i> , 2007 , 3, 367-374	3.9	62
121	Modelling Antarctic sea-level data to explore the possibility of a dominant Antarctic contribution to meltwater pulse IA. <i>Quaternary Science Reviews</i> , 2007 , 26, 2113-2127	3.9	62
120	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6. <i>Cryosphere</i> , 2020 , 14, 3071-3096	5.5	62
119	Ice sheet extent and early deglacial history of the southwestern sector of the Greenland Ice Sheet. <i>Quaternary Science Reviews</i> , 2009 , 28, 2760-2773	3.9	61
118	Glaciological Modelling of the Late Cenozoic East Antarctic Ice Sheet: Stability or Dynamism?. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993 , 75, 221-238	1.1	61
117	Effect of uncertainty in surface mass balance-elevation feedback on projections of the future sea level contribution of the Greenland ice sheet. <i>Cryosphere</i> , 2014 , 8, 195-208	5.5	58
116	Climatic Impact of a Greenland Deglaciation and Its Possible Irreversibility. <i>Journal of Climate</i> , 2004 , 17, 21-33	4.4	58
115	The subglacial cavity and implied dynamics under Nioghalvfjærdsfjorden Glacier, NE-Greenland. <i>Geophysical Research Letters</i> , 2000 , 27, 2289-2292	4.9	58
114	Basal temperature conditions of the Greenland ice sheet during the glacial cycles. <i>Annals of Glaciology</i> , 1996 , 23, 226-236	2.5	55
113	Simulating the Antarctic ice sheet in the late-Pliocene warm period: PLISMIP-ANT, an ice-sheet model intercomparison project. <i>Cryosphere</i> , 2015 , 9, 881-903	5.5	54

112	The Antarctic Ice Sheet During the Last Glacial-Interglacial Cycle: A Three-Dimensional Experiment. <i>Annals of Glaciology</i> , 1990 , 14, 115-119	2.5	52
111	The Antarctic Ice Sheet During the Last Glacial-Interglacial Cycle: A Three-Dimensional Experiment. <i>Annals of Glaciology</i> , 1990 , 14, 115-119	2.5	52
110	Antarctic glacial history from numerical models and continental margin sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999 , 150, 247-267	2.9	51
109	Direct effect of ice sheets on terrestrial bicarbonate, sulphate and base cation fluxes during the last glacial cycle: minimal impact on atmospheric CO ₂ concentrations. <i>Chemical Geology</i> , 2002 , 190, 33-44	4.2	50
108	An ice-shelf model test based on the Ross Ice Shelf, Antarctica. <i>Annals of Glaciology</i> , 1996 , 23, 46-51	2.5	49
107	Ice thinning, upstream advection, and non-climatic biases for the upper 89% of the EDML ice core from a nested model of the Antarctic ice sheet. <i>Climate of the Past</i> , 2007 , 3, 577-589	3.9	48
106	initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6. <i>Cryosphere</i> , 2019 , 13, 1441-1451	3.5	47
105	A comparison of different ways of dealing with isostasy: examples from modelling the Antarctic ice sheet during the last glacial cycle. <i>Annals of Glaciology</i> , 1996 , 23, 309-317	2.5	47
104	Late Weichselian relative sea-level changes and ice sheet history in southeast Greenland. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 8-18	5.3	46
103	Projected land ice contributions to twenty-first-century sea level rise. <i>Nature</i> , 2021 , 593, 74-82	50.4	45
102	Basal temperature conditions of the Greenland ice sheet during the glacial cycles. <i>Annals of Glaciology</i> , 1996 , 23, 226-236	2.5	43
101	GrSMBMIP: intercomparison of the modelled 1980-2012 surface mass balance over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020 , 14, 3935-3958	5.5	43
100	An improved estimate of microbially mediated carbon fluxes from the Greenland ice sheet. <i>Journal of Glaciology</i> , 2012 , 58, 1098-1108	3.4	41
99	Surface mass-balance changes of the Greenland ice sheet since 1866. <i>Annals of Glaciology</i> , 2009 , 50, 178-184	2.5	41
98	Results from the Ice-Sheet Model Intercomparison Project Heinrich Event Intercomparison (ISMIP HEINO). <i>Journal of Glaciology</i> , 2010 , 56, 371-383	3.4	41
97	Modelling the evolution of Vadret da Morteratsch, Switzerland, since the Little Ice Age and into the future. <i>Journal of Glaciology</i> , 2014 , 60, 1155-1168	3.4	38
96	The response of the Greenland ice sheet to climate changes in the 21st century by interactive coupling of an AOGCM with a thermomechanical ice-sheet model. <i>Annals of Glaciology</i> , 2002 , 35, 409-415	2.5	37
95	Last Interglacial climate and sea-level evolution from a coupled ice sheet-climate model. <i>Climate of the Past</i> , 2016 , 12, 2195-2213	3.9	37

94	Projecting Antarctica's contribution to future sea level rise from basal ice shelf melt using linear response functions of 16 ice sheet models (LARMIP-2). <i>Earth System Dynamics</i> , 2020 , 11, 35-76	4.8	35
93	The Greenland ice sheet through the last glacial-interglacial cycle. <i>Global and Planetary Change</i> , 1991 , 4, 385-394	4.2	35
92	Numerical modelling of historical front variations and the 21st-century evolution of glacier AX010, Nepal Himalaya. <i>Annals of Glaciology</i> , 2009 , 50, 27-34	2.5	33
91	Modelling of large-scale melt parameters with a regional climate model in south Greenland during the 1991 melt season. <i>Annals of Glaciology</i> , 2002 , 35, 391-397	2.5	33
90	Modelled glacial and non-glacial HCO ₃ ⁻ /Si and Ge fluxes since the LGM: little potential for impact on atmospheric CO ₂ concentrations and a potential proxy of continental chemical erosion, the marine Ge/Si ratio. <i>Global and Planetary Change</i> , 2002 , 33, 139-153	4.2	32
89	Reconstruction of the annual balance of Vadret da Morteratsch, Switzerland, since 1865. <i>Annals of Glaciology</i> , 2009 , 50, 126-134	2.5	31
88	Surface mass balance of the Greenland ice sheet from climate-analysis data and accumulation/runoff models. <i>Annals of Glaciology</i> , 2002 , 35, 67-72	2.5	30
87	High resolution (1 km) positive degree-day modelling of Greenland ice sheet surface mass balance, 1870-2012 using reanalysis data. <i>Journal of Glaciology</i> , 2017 , 63, 176-193	3.4	28
86	Impact of Greenland and Antarctic ice sheet interactions on climate sensitivity. <i>Climate Dynamics</i> , 2011 , 37, 1005-1018	4.2	28
85	Glacial-Geological/Geomorphological Research in West Greenland Used to Test an Ice-Sheet Model. <i>Quaternary Research</i> , 1995 , 44, 317-327	1.9	26
84	A constraint upon the basal water distribution and thermal state of the Greenland Ice Sheet from radar bed echoes. <i>Cryosphere</i> , 2018 , 12, 2831-2854	5.5	26
83	Millennial total sea-level commitments projected with the Earth system model of intermediate complexity LOVECLIM. <i>Environmental Research Letters</i> , 2012 , 7, 045401	6.2	24
82	A three-dimensional climate-ice-sheet model applied to the Last Glacial Maximum. <i>Annals of Glaciology</i> , 1997 , 25, 333-339	2.5	23
81	Short term mass variability in Greenland, from GRACE. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	22
80	The response of the East Antarctic ice-sheet to the evolving tectonic configuration of the Transantarctic Mountains. <i>Global and Planetary Change</i> , 1999 , 23, 213-229	4.2	21
79	On the climate-geometry imbalance, response time and volume-area scaling of an alpine glacier: insights from a 3-D flow model applied to Vadret da Morteratsch, Switzerland. <i>Annals of Glaciology</i> , 2015 , 56, 51-62	2.5	20
78	Probabilistic parameterisation of the surface mass balance-elevation feedback in regional climate model simulations of the Greenland ice sheet. <i>Cryosphere</i> , 2014 , 8, 181-194	5.5	20
77	Effect of higher-order stress gradients on the centennial mass evolution of the Greenland ice sheet. <i>Cryosphere</i> , 2013 , 7, 183-199	5.5	20

76	Calibration of a higher-order 3-D ice-flow model of the Morteratsch glacier complex, Engadin, Switzerland. <i>Annals of Glaciology</i> , 2013 , 54, 343-351	2.5	20
75	The influence of decadal- to millennial-scale ice mass changes on present-day vertical land motion in Greenland: Implications for the interpretation of GPS observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		20
74	Past and present accumulation rate reconstruction along the Dome Fuji-Kohnen radio-echo sounding profile, Dronning Maud Land, East Antarctica. <i>Annals of Glaciology</i> , 2009 , 50, 112-120	2.5	20
73	Factors controlling the last interglacial climate as simulated by LOVECLIM1.3. <i>Climate of the Past</i> , 2014 , 10, 1541-1565	3.9	19
72	A comparison of Eulerian and Lagrangian methods for dating in numerical ice-sheet models. <i>Annals of Glaciology</i> , 2003 , 37, 150-158	2.5	19
71	A model computation of the temporal changes of surface gravity and geoidal signal induced by the evolving Greenland ice sheet. <i>Geophysical Journal International</i> , 2001 , 145, 835-849	2.6	19
70	Present-day uplift patterns over Greenland from a coupled ice-sheet/visco-elastic bedrock model. <i>Geophysical Research Letters</i> , 1998 , 25, 3951-3954	4.9	19
69	Modeling the marine extent of Northern Hemisphere ice sheets during the last glacial cycle. <i>Annals of Glaciology</i> , 2003 , 37, 173-180	2.5	18
68	An ice-sheet-wide framework for englacial attenuation from ice-penetrating radar data. <i>Cryosphere</i> , 2016 , 10, 1547-1570	5.5	18
67	Evolution of the East Antarctic Ice Sheet: A Numerical Study of Thermo-Mechanical Response Patterns With Changing Climate. <i>Annals of Glaciology</i> , 1988 , 11, 52-59	2.5	17
66	Improved convergence and stability properties in a three-dimensional higher-order ice sheet model. <i>Geoscientific Model Development</i> , 2011 , 4, 1133-1149	6.3	16
65	Mass budgets of the Lambert, Mellor and Fisher Glaciers and basal fluxes beneath their flowbands on Amery Ice Shelf. <i>Science in China Series D: Earth Sciences</i> , 2007 , 50, 1693-1706		16
64	Predicted present-day evolution patterns of ice thickness and bedrock elevation over Greenland and Antarctica. <i>Polar Research</i> , 1999 , 18, 299-306	2	16
63	Response of the Greenland and Antarctic Ice Sheets to Multi-Millennial Greenhouse Warming in the Earth System Model of Intermediate Complexity LOVECLIM. <i>Space Sciences Series of ISSI</i> , 2011 , 397-416	0.1	15
62	Accumulation variability and mass budgets of the Lambert Glacier-Amery Ice Shelf system, East Antarctica, at high elevations. <i>Annals of Glaciology</i> , 2006 , 43, 351-360	2.5	14
61	Evaluating climate model performance with various parameter sets using observations over the recent past. <i>Climate of the Past</i> , 2011 , 7, 511-526	3.9	13
60	Spatially extensive estimates of annual accumulation in the dry snow zone of the Greenland Ice Sheet determined from radar altimetry. <i>Cryosphere</i> , 2010 , 4, 467-474	5.5	13
59	A three-dimensional climate-ice-sheet model applied to the Last Glacial Maximum. <i>Annals of Glaciology</i> , 1997 , 25, 333-339	2.5	13

58	Thermomechanical modelling of Northern Hemisphere ice sheets with a two-level mass-balance parameterization. <i>Annals of Glaciology</i> , 1995 , 21, 111-116	2.5	13
57	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2		12
56	Impact of ice sheet meltwater fluxes on the climate evolution at the onset of the Last Interglacial. <i>Climate of the Past</i> , 2016 , 12, 1721-1737	3.9	12
55	Sensitivity, stability and future evolution of the world's northernmost ice cap, Hans Tausen Iskappe (Greenland). <i>Cryosphere</i> , 2017 , 11, 805-825	5.5	11
54	Surface mass balance model intercomparison for the Greenland ice sheet		10
53	Stable dynamics in a Greenland tidewater glacier over 26 years despite reported thinning. <i>Annals of Glaciology</i> , 2012 , 53, 241-248	2.5	9
52	Mass budget of the grounded ice in the Lambert Glacier-Amery Ice Shelf system. <i>Annals of Glaciology</i> , 2008 , 48, 193-197	2.5	9
51	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
50	Ice thinning, upstream advection, and non-climatic biases for the upper 89% of the EDML ice core from a nested model of the Antarctic ice sheet		9
49	Unravelling the high-altitude Nansen blue ice field meteorite trap (East Antarctica) and implications for regional palaeo-conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 248, 289-310	5.5	9
48	Holocene evolution of Hans Tausen Iskappe (Greenland) and implications for the palaeoclimatic evolution of the high Arctic. <i>Quaternary Science Reviews</i> , 2017 , 168, 182-193	3.9	8
47	Statistical modelling of the surface mass-balance variability of the Morteratsch glacier, Switzerland: strong control of early melting season meteorological conditions. <i>Journal of Glaciology</i> , 2018 , 64, 275-288	3.4	8
46	Cryospheric Contributions to Sea-Level Rise and Variability 2010 , 177-225		8
45	"EDML1": a chronology for the EPICA deep ice core from Dronning Maud Land, Antarctica, over the last 150 000 years		8
44	Semi-equilibrated global sea-level change projections for the next 10 000 years. <i>Earth System Dynamics</i> , 2020 , 11, 953-976	4.8	8
43	Century-scale relative sea-level changes in West Greenland: a plausibility study to assess contributions from the cryosphere and the ocean. <i>Earth and Planetary Science Letters</i> , 2012 , 315-316, 86-93	5.3	7
42	Projections of global mean sea level rise calculated with a 2D energy-balance climate model and dynamic ice sheet models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1997 , 49, 486-502	2	7
41	Geometric boundary conditions for modelling the velocity field of the Antarctic ice sheet. <i>Annals of Glaciology</i> , 1996 , 23, 364-373	2.5	7

40	Predicted present-day evolution patterns of ice thickness and bedrock elevation over Greenland and Antarctica. <i>Polar Research</i> , 1999 , 18, 299-306	2	7
39	Synchronisation of the EDML and EDC ice cores for the last 52 kyr by volcanic signature matching		7
38	Future Sea Level Change Under Coupled Model Intercomparison Project Phase 5 and Phase 6 Scenarios From the Greenland and Antarctic Ice Sheets. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091741	4.9	7
37	A dynamic continental runoff routing model applied to the last Northern Hemisphere deglaciation. <i>Geoscientific Model Development</i> , 2012 , 5, 599-609	6.3	6
36	Ice-dynamic conditions across the grounding zone, Ekströmisen, East Antarctica. <i>Journal of Glaciology</i> , 1999 , 45, 384-393	3.4	6
35	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1994 , 46, 94-102	3.3	6
34	Late Quaternary record of sea-level changes in the Antarctic. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1993 , 82, 263		6
33	GrSMBMIP: Intercomparison of the modelled 1980-2012 surface mass balance over the Greenland Ice sheet		6
32	On Characteristic Timescales of Glacier AX010 in the Nepalese Himalaya. <i>Bulletin of Glaciological Research</i> , 2011 , 29, 19-29	0.4	5
31	Formation and disintegration of the Antarctic ice sheet. <i>Annals of Glaciology</i> , 1994 , 20, 336-340	2.5	5
30	ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21 st century		5
29	Effect of uncertainty in surface mass balance elevation feedback on projections of the future sea level contribution of the Greenland ice sheet [Part 2: Projections]		5
28	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1997 , 49, 486-502	2	4
27	Antarctica: modelling 2004 , 491-524		4
26	The future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6		4
25	13 Flow and balance of the polar ice sheets1-13		4
24	Modelling of the Thermal Conditions at the Greenland Ice Sheet Margin During Holocene Deglaciation: Boundary Conditions for Moraine Formation. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1996 , 78, 83-99	1.1	3
23	Modelled ice-sheet margins of three Greenland ice-sheet models compared with a geological record from ice-marginal deposits in central West Greenland. <i>Annals of Glaciology</i> , 1996 , 23, 52-58	2.5	3

22	Evaluating climate model performance with various parameter sets using observations over the last centuries		3
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