

Colm Cofaigh

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.

120
papers

4,983
citations

40
h-index

65
g-index

122
ext. papers

5,507
ext. citations

3.5
avg, IF

5.63
L-index

#	Paper	IF	Citations
120	Flow dynamics and till genesis associated with a marine-based Antarctic palaeo-ice stream. <i>Quaternary Science Reviews</i> , 2005 , 24, 709-740	3.9	245
119	Evolution of subglacial bedforms along a paleo-ice stream, Antarctic Peninsula continental shelf. <i>Geophysical Research Letters</i> , 2002 , 29, 41-1-41-4	4.9	235
118	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014 , 100, 1-9	3.9	193
117	Thickness and extent of the subglacial till layer beneath an Antarctic paleo-ice stream. <i>Geology</i> , 2004 , 32, 13	5	174
116	Laminated sediments in glacial-marine environments: diagnostic criteria for their interpretation. <i>Quaternary Science Reviews</i> , 2001 , 20, 1411-1436	3.9	160
115	Ice-stream stability on a reverse bed slope. <i>Nature Geoscience</i> , 2012 , 5, 799-802	18.3	149
114	Tunnel valley genesis. <i>Progress in Physical Geography</i> , 1996 , 20, 1-19	3.5	147
113	Antarctic palaeo-ice streams. <i>Earth-Science Reviews</i> , 2012 , 111, 90-128	10.2	146
112	Palaeo-ice streams, trough mouth fans and high-latitude continental slope sedimentation. <i>Boreas</i> , 2003 , 32, 37-55	2.4	137
111	Reconstruction of ice-sheet changes in the Antarctic Peninsula since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014 , 100, 87-110	3.9	107
110	Geological constraints on Antarctic palaeo-ice-stream retreat. <i>Earth Surface Processes and Landforms</i> , 2008 , 33, 513-525	3.7	96
109	Extent and dynamics of the West Antarctic Ice Sheet on the outer continental shelf of Pine Island Bay during the last glaciation. <i>Marine Geology</i> , 2006 , 230, 53-72	3.3	96
108	Radiocarbon constraints on the age of the maximum advance of the British-Irish Ice Sheet in the Celtic Sea. <i>Quaternary Science Reviews</i> , 2007 , 26, 1197-1203	3.9	88
107	The Greenland Ice Sheet During the Past 300,000 Years: A Review. <i>Developments in Quaternary Sciences</i> , 2011 , 699-713	0.5	78
106	Timing and significance of glacially influenced mass-wasting in the submarine channels of the Greenland Basin. <i>Marine Geology</i> , 2004 , 207, 39-54	3.3	78
105	Bayesian modelling the retreat of the Irish Sea Ice Stream. <i>Journal of Quaternary Science</i> , 2013 , 28, 200-209		77
104	Sedimentary evidence for deforming bed conditions associated with a grounded Irish Sea glacier, southern Ireland. <i>Journal of Quaternary Science</i> , 2001 , 16, 435-454	2.3	74

103	Terrestrial and submarine evidence for the extent and timing of the Last Glacial Maximum and the onset of deglaciation on the maritime-Antarctic and sub-Antarctic islands. <i>Quaternary Science Reviews</i> , 2014 , 100, 137-158	3.9	71
102	Paleoenvironments during Younger Dryas-Early Holocene retreat of the Greenland Ice Sheet from outer Disko Trough, central west Greenland. <i>Journal of Quaternary Science</i> , 2014 , 29, 27-40	2.3	68
101	Reconstruction of changes in the Amundsen Sea and Bellingshausen Sea sector of the West Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014 , 100, 55-86	3.9	68
100	Marine geophysical evidence for Late Pleistocene ice sheet extent and recession off northwest Ireland. <i>Quaternary Science Reviews</i> , 2012 , 44, 147-159	3.9	67
99	Flow of the West Antarctic Ice Sheet on the continental margin of the Bellingshausen Sea at the Last Glacial Maximum. <i>Journal of Geophysical Research</i> , 2005 , 110,		66
98	Marine geophysical evidence for former expansion and flow of the Greenland Ice Sheet across the north-east Greenland continental shelf. <i>Journal of Quaternary Science</i> , 2009 , 24, 279-293	2.3	64
97	Holocene glacimarine sedimentation, inner Scoresby Sund, East Greenland: the influence of fast-flowing ice-sheet outlet glaciers. <i>Marine Geology</i> , 2001 , 175, 103-129	3.3	64
96	Evidence for full-glacial flow and retreat of the Late Weichselian Ice Sheet from the waters around Kong Karls Land, eastern Svalbard. <i>Quaternary Science Reviews</i> , 2010 , 29, 3563-3582	3.9	57
95	Glacial geomorphology of terrestrial-terminating fast flow lobes/ice stream margins in the southwest Laurentide Ice Sheet. <i>Geomorphology</i> , 2014 , 204, 86-113	4.3	56
94	The palaeoglaciology of the central sector of the British and Irish Ice Sheet: reconciling glacial geomorphology and preliminary ice sheet modelling. <i>Quaternary Science Reviews</i> , 2009 , 28, 739-757	3.9	56
93	Till characteristics, genesis and transport beneath Antarctic paleo-ice streams. <i>Journal of Geophysical Research</i> , 2007 , 112,		54
92	Deglaciation of a major palaeo-ice stream in Disko Trough, West Greenland. <i>Quaternary Science Reviews</i> , 2016 , 147, 5-26	3.9	50
91	Glaciodynamics of the central sector of the last British-Irish Ice Sheet in Northern England. <i>Earth-Science Reviews</i> , 2012 , 111, 25-55	10.2	49
90	Depositional evidence for marginal oscillations of the Irish Sea ice stream in southeast Ireland during the last glaciation. <i>Boreas</i> , 2003 , 32, 76-101	2.4	49
89	A critical assessment of subglacial mega-floods: a case study of glacial sediments and landforms in south-central Alberta, Canada. <i>Quaternary Science Reviews</i> , 2006 , 25, 1638-1667	3.9	47
88	Late Pleistocene chronostratigraphy and ice sheet limits, southern Ireland. <i>Quaternary Science Reviews</i> , 2012 , 44, 160-179	3.9	46
87	Late Quaternary Iceberg Rafting along the Antarctic Peninsula Continental Rise and in the Weddell and Scotia Seas. <i>Quaternary Research</i> , 2001 , 56, 308-321	1.9	46
86	Late Quaternary submarine bedforms and ice-sheet flow in Gerlache Strait and on the adjacent continental shelf, Antarctic Peninsula. <i>Journal of Quaternary Science</i> , 2004 , 19, 397-407	2.3	45

85	Ocean forcing of Ice Sheet retreat in central west Greenland from LGM to the early Holocene. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 1-13	5.3	42
84	Glacial geomorphology of the central sector of the last British-Irish Ice Sheet. <i>Journal of Maps</i> , 2008 , 4, 358-377	2.2	42
83	The role of glacetectonic rafting and comminution in the production of subglacial tills: examples from southwest Ireland and Antarctica. <i>Boreas</i> , 2007 , 36, 386-399	2.4	41
82	Maximum extent and dynamic behaviour of the last British-Irish Ice Sheet west of Ireland. <i>Quaternary Science Reviews</i> , 2015 , 128, 48-68	3.9	40
81	Provenance and depositional environments of Quaternary sediments from the western North Sea Basin. <i>Journal of Quaternary Science</i> , 2011 , 26, 59-75	2.3	40
80	Ice sheet extension to the Celtic Sea shelf edge at the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2015 , 111, 107-112	3.9	39
79	Glacial and glacially-related features on the continental margin of northwest Ireland mapped from marine geophysical data. <i>Journal of Maps</i> , 2010 , 6, 14-29	2.2	39
78	Geological and geomorphological insights into Antarctic ice sheet evolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 1607-25	3	38
77	Till stratigraphy and sedimentology at the margins of terrestrially terminating ice streams: case study of the western Canadian prairies and high plains. <i>Quaternary Science Reviews</i> , 2012 , 46, 80-125	3.9	37
76	Ice stream retreat following the LGM and onset of the west Greenland current in Ummannaq Trough, west Greenland. <i>Quaternary Science Reviews</i> , 2016 , 147, 27-46	3.9	36
75	Glacial geomorphology of Marguerite Bay Palaeo-Ice stream, western Antarctic Peninsula. <i>Journal of Maps</i> , 2013 , 9, 558-572	2.2	35
74	Styles of till deposition at the margin of the Last Glacial Maximum North Sea lobe of the British-Irish Ice Sheet: an assessment based on geochemical properties of glacial deposits in eastern England. <i>Quaternary Science Reviews</i> , 2010 , 29, 3184-3211	3.9	35
73	Understanding controls on rapid ice-stream retreat during the last deglaciation of Marguerite Bay, Antarctica, using a numerical model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014 , 119, 247-263 ^{3.8}		34
72	Controls upon the Last Glacial Maximum deglaciation of the northern Ummannaq Ice Stream System, West Greenland. <i>Quaternary Science Reviews</i> , 2014 , 92, 324-344	3.9	34
71	Interlobate ice-sheet dynamics during the Last Glacial Maximum at Whitburn Bay, County Durham, England. <i>Boreas</i> , 2009 , 38, 555-578	2.4	33
70	The Brampton kame belt and Pennine escarpment meltwater channel system (Cumbria, UK): Morphology, sedimentology and formation. <i>Proceedings of the Geologists Association</i> , 2010 , 121, 423-443 ^{1.1}		33
69	Trough geometry was a greater influence than climate-ocean forcing in regulating retreat of the marine-based Irish-Sea Ice Stream. <i>Bulletin of the Geological Society of America</i> , 2018 , 130, 1981-1999	3.9	33
68	A major ice drainage pathway of the last British-Irish Ice Sheet: the Tyne Gap, northern England. <i>Journal of Quaternary Science</i> , 2010 , 25, 354-370	2.3	32

67	Extent and retreat history of the Barra Fan Ice Stream offshore western Scotland and northern Ireland during the last glaciation. <i>Quaternary Science Reviews</i> , 2018 , 201, 280-302	3.9	32
66	Glacial history of sub-Antarctic South Georgia based on the submarine geomorphology of its fjords. <i>Quaternary Science Reviews</i> , 2014 , 89, 129-147	3.9	31
65	Glacial landsystems, retreat dynamics and controls on Loch Lomond Stadial (Younger Dryas) glaciation in Britain. <i>Boreas</i> , 2018 , 47, 202-224	2.4	29
64	Early deglaciation of the British-Irish Ice Sheet on the Atlantic shelf northwest of Ireland driven by glacioisostatic depression and high relative sea level. <i>Quaternary Science Reviews</i> , 2019 , 208, 76-96	3.9	28
63	Baffin Bay paleoenvironments in the LGM and HS1: Resolving the ice-shelf question. <i>Marine Geology</i> , 2018 , 402, 5-16	3.3	28
62	Micromorphological characteristics of glacial marine sediments: implications for distinguishing genetic processes of massive diamicts. <i>Geo-Marine Letters</i> , 2010 , 30, 77-97	1.9	28
61	Ice marginal dynamics of the last British-Irish Ice Sheet in the southern North Sea: Ice limits, timing and the influence of the Dogger Bank. <i>Quaternary Science Reviews</i> , 2018 , 198, 181-207	3.9	27
60	Lack of evidence for a substantial sea-level fluctuation within the Last Interglacial. <i>Nature Geoscience</i> , 2018 , 11, 627-634	18.3	26
59	Recent advances in understanding Antarctic climate evolution. <i>Antarctic Science</i> , 2008 , 20, 313-325	1.7	26
58	Late Wisconsinan glaciation of southern Eureka Sound: evidence for extensive Inuitian ice in the Canadian High Arctic during the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2000 , 19, 1319-1341	3.9	26
57	Sedimentology and chronology of the advance and retreat of the last British-Irish Ice Sheet on the continental shelf west of Ireland. <i>Quaternary Science Reviews</i> , 2016 , 140, 101-124	3.9	26
56	Geomorphic and sedimentary signatures of early Holocene deglaciation in High Arctic fiords, Ellesmere Island, Canada: implications for deglacial ice dynamics and thermal regime. <i>Canadian Journal of Earth Sciences</i> , 1998 , 35, 437-452	1.5	25
55	Formation of a stratified subglacial till assemblage by ice-marginal thrusting and glacier overriding. <i>Boreas</i> , 2011 , 40, 1-14	2.4	24
54	Geophysical investigations of a high-latitude submarine channel system and associated channel-mouth lobe in the Lofoten Basin, Polar North Atlantic. <i>Marine Geology</i> , 2006 , 226, 41-50	3.3	24
53	Ice-stream demise dynamically conditioned by trough shape and bed strength. <i>Science Advances</i> , 2019 , 5, eaau1380	14.3	23
52	Pattern, style and timing of British-Irish Ice Sheet retreat: Shetland and northern North Sea sector. <i>Journal of Quaternary Science</i> , 2021 , 36, 681-722	2.3	23
51	Subglacial processes on an Antarctic ice stream bed. 1: Sediment transport and bedform genesis inferred from marine geophysical data. <i>Journal of Glaciology</i> , 2016 , 62, 270-284	3.4	22
50	Sedimentary evidence for a major glacial oscillation and proglacial lake formation in the Solway Lowlands (Cumbria, UK) during Late Devensian deglaciation. <i>Boreas</i> , 2010 , 39, 505	2.4	21

49	Late Devensian deglaciation of the Tyne Gap Palaeo-Ice Stream, northern England. <i>Journal of Quaternary Science</i> , 2015 , 30, 790-804	2.3	20
48	The age and stratigraphic context of the Easington Raised Beach, County Durham, UK. <i>Proceedings of the Geologists Association</i> , 2009 , 120, 183-198	1.1	20
47	Till genesis and glacier motion inferred from sedimentological evidence associated with the surge-type glacier, Brårhøll, Iceland. <i>Annals of Glaciology</i> , 2005 , 42, 14-22	2.5	20
46	Sediment reworking on high-latitude continental margins and its implications for palaeoceanographic studies: insights from the Norwegian-Greenland Sea. <i>Geological Society Special Publication</i> , 2002 , 203, 325-348	1.7	19
45	Submarine landform assemblages and sedimentary processes related to glacier surging in Kongsfjorden, Svalbard. <i>Arktos</i> , 2015 , 1, 1	0.9	18
44	Ice sheets viewed from the ocean: the contribution of marine science to understanding modern and past ice sheets. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 5512-39	3	18
43	Seafloor geomorphology and glacial marine sedimentation associated with fast-flowing ice sheet outlet glaciers in Disko Bay, West Greenland. <i>Quaternary Science Reviews</i> , 2017 , 169, 206-230	3.9	17
42	Re-advance of Scottish ice into the Solway Lowlands (Cumbria, UK) during the Main Late Devensian deglaciation. <i>Quaternary Science Reviews</i> , 2010 , 29, 2544-2570	3.9	17
41	Till sedimentology and stratigraphy on the Dingle Peninsula, SW Ireland: implications for Late Quaternary regional ice flow patterns. <i>Proceedings of the Geologists Association</i> , 2008 , 119, 137-152	1.1	17
40	The Last Irish Ice Sheet: Extent and Chronology 2017 , 101-149		17
39	Subglacial processes on an Antarctic ice stream bed. 2: Can modelled ice dynamics explain the morphology of mega-scale glacial lineations?. <i>Journal of Glaciology</i> , 2016 , 62, 285-298	3.4	16
38	Submarine landforms and glacial marine sedimentary processes in Lomfjorden, East Spitsbergen. <i>Marine Geology</i> , 2017 , 390, 51-71	3.3	15
37	Glacier-influenced sedimentation on high-latitude continental margins: introduction and overview. <i>Geological Society Special Publication</i> , 2002 , 203, 1-9	1.7	15
36	Pattern, style and timing of British/Irish Ice Sheet advance and retreat over the last 45 000 years: evidence from NW Scotland and the adjacent continental shelf. <i>Journal of Quaternary Science</i> , 2021 , 36, 871-933	2.3	15
35	Geophysical surveys of the sediments of Loch Ness, Scotland: implications for the deglaciation of the Moray Firth Ice Stream, British/Irish Ice Sheet. <i>Journal of Quaternary Science</i> , 2012 , 27, 221-232	2.3	14
34	Glacial geomorphology of the Great Glen Region of Scotland. <i>Journal of Maps</i> , 2014 , 10, 159-178	2.2	14
33	Comment on Shaw J., Pugin, A. and Young, R. (2008): A meltwater origin for Antarctic shelf bedforms with special attention to megalineations. <i>Geomorphology</i> , 2010 , 117, 195-198	4.3	14
32	Depositional evidence for marginal oscillations of the Irish Sea ice stream in southeast Ireland during the last glaciation 2003 , 32, 76		14

31	The mixed-bed glacial landform imprint of the North Sea Lobe in the western North Sea. <i>Earth Surface Processes and Landforms</i> , 2019 , 44, 1233-1258	3.7	14
30	A stratigraphic investigation of the Celtic Sea megaridges based on seismic and core data from the Irish-UK sectors. <i>Quaternary Science Reviews</i> , 2018 , 198, 156-170	3.9	14
29	Stratigraphic architecture and sedimentology of a Late Pleistocene subaqueous moraine complex, southwest Ireland. <i>Journal of Quaternary Science</i> , 2012 , 27, 51-63	2.3	13
28	Controls on bedrock bedform development beneath the Uummanaq Ice Stream onset zone, West Greenland. <i>Geomorphology</i> , 2015 , 231, 301-313	4.3	13
27	Dynamic Devensian ice flow in NE England: a sedimentological reconstruction. <i>Boreas</i> , 2012 , 41, 337-3362.4		13
26	The relationship between ice sheets and submarine mass movements in the Nordic Seas during the Quaternary. <i>Earth-Science Reviews</i> , 2018 , 178, 208-256	10.2	11
25	Submarine landform assemblages and sedimentary processes in front of Spitsbergen tidewater glaciers. <i>Marine Geology</i> , 2018 , 402, 209-227	3.3	10
24	Supraglacial debris along the front of the Larsen-A Ice Shelf, Antarctic Peninsula. <i>Antarctic Science</i> , 2003 , 15, 503-506	1.7	10
23	Oscillating retreat of the last British-Irish Ice Sheet on the continental shelf offshore Galway Bay, western Ireland. <i>Marine Geology</i> , 2020 , 420, 106087	3.3	10
22	Retreat dynamics of the eastern sector of the British-Irish Ice Sheet during the last glaciation. <i>Journal of Quaternary Science</i> , 2021 , 36, 723-751	2.3	10
21	The role of meltwater in high-latitude trough-mouth fan development: The Disko Trough-Mouth Fan, West Greenland. <i>Marine Geology</i> , 2018 , 402, 17-32	3.3	9
20	Drumlin sedimentology in a hard-bed, lowland setting, Connemara, western Ireland: implications for subglacial bedform generation in areas of sparse till cover. <i>Journal of Quaternary Science</i> , 2015 , 30, 537-557	2.3	9
19	Holocene emergence and shoreline delevelling, southern Eureka Sound, High Arctic Canada. <i>Geographie Physique Et Quaternaire</i> , 1999 , 53, 235-247		9
18	The deglaciation of the western sector of the Irish Ice Sheet from the inner continental shelf to its terrestrial margin. <i>Boreas</i> , 2020 , 49, 438-460	2.4	9
17	Timing, pace and controls on ice sheet retreat: an introduction to the BRITICE-CHRONO transect reconstructions of the British-Irish Ice Sheet. <i>Journal of Quaternary Science</i> , 2021 , 36, 673-680	2.3	9
16	Geomorphology and till architecture of terrestrial palaeo-ice streams of the southwest Laurentide Ice Sheet: A borehole stratigraphic approach. <i>Quaternary Science Reviews</i> , 2018 , 186, 186-214	3.9	9
15	A Marine Isotope Stage 4 age for Pleistocene raised beach deposits near Fethard, southern Ireland. <i>Journal of Quaternary Science</i> , 2015 , 30, 754-763	2.3	7
14	Controls on the formation of turbidity current channels associated with marine-terminating glaciers and ice sheets. <i>Marine Geology</i> , 2019 , 415, 105951	3.3	6

13	Submarine deglacial sediment and geomorphological record of southwestern Scotland after the Last Glacial Maximum. <i>Marine Geology</i> , 2018 , 403, 62-79	3.3	6
12	The sedimentology of the Late Pleistocene Bannow Till stratotype, County Wexford, southeast Ireland. <i>Proceedings of the Geologists Association</i> , 2008 , 119, 329-338	1.1	6
11	Timing and pace of ice-sheet withdrawal across the marine-terrestrial transition west of Ireland during the last glaciation. <i>Journal of Quaternary Science</i> , 2021 , 36, 805-832	2.3	6
10	Glacial landscape evolution in the Uummannaq region, West Greenland. <i>Boreas</i> , 2016 , 45, 220-234	2.4	6
9	A Plio-Pleistocene sediment wedge on the continental shelf west of central Ireland: The Connemara Fan. <i>Marine Geology</i> , 2018 , 399, 97-114	3.3	4
8	Workshop explores debris transported by icebergs and paleoenvironmental implications. <i>Eos</i> , 2001 , 82, 382-382	1.5	4
7	Exploring controls of the early and stepped deglaciation on the western margin of the British Irish Ice Sheet. <i>Journal of Quaternary Science</i> , 2021 , 36, 833-870	2.3	4
6	Glacial and submarine processes on the shelf margin of the Disko Bay Trough Mouth Fan. <i>Marine Geology</i> , 2018 , 402, 33-50	3.3	3
5	Geological evolution and processes of the glaciated North Atlantic margins. <i>Marine Geology</i> , 2018 , 402, 1-4	3.3	3
4	PAST Gateways (Palaeo-Arctic Spatial and Temporal Gateways): Introduction and overview. <i>Quaternary Science Reviews</i> , 2016 , 147, 1-4	3.9	2
3	Reply to John Shaw [Correspondence] [Alberta flow paths: a need for balance] <i>Quaternary Science Reviews</i> , 2013 , 63, 144-148	3.9	2
2	The glacial history of the southern Svartenhuk Halvø West Greenland. <i>Arktos</i> , 2015 , 1, 1	0.9	1
1	GlaciDat [a] GIS database of submarine glacial landforms and sediments in the Arctic. <i>Boreas</i> ,	2.4	1