Danny McCarroll

List of Publications by Year
in descending order

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127 papers	8,553 citations	50566 48 h-index	53065 89 g-index
132 all docs	132 docs citations	132 times ranked	6568 citing authors

#	Article	IF	Citations
1	Stable isotopes in tree rings. Quaternary Science Reviews, 2004, 23, 771-801.	1.4	1,403
2	Continental-scale temperature variability during the past two millennia. Nature Geoscience, 2013, 6, 339-346.	5.4	954
3	Comparison of stable carbon isotope ratios in the whole wood, cellulose and lignin of oak tree-rings. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 196, 395-407.	1.0	292
4	Correction of tree ring stable carbon isotope chronologies for changes in the carbon dioxide content of the atmosphere. Geochimica Et Cosmochimica Acta, 2009, 73, 1539-1547.	1.6	244
5	Spatial variability and temporal trends in waterâ€use efficiency of European forests. Global Change Biology, 2014, 20, 3700-3712.	4.2	175
6	Stable carbon isotope ratios of Pinus sylvestris from northern Finland and the potential for extracting a climate signal from long Fennoscandian chronologies. Holocene, 2001, 11, 517-526.	0.9	164
7	Exorcising the `segment length curse': summer temperature reconstruction since AD 1640 using non-detrended stable carbon isotope ratios from pine trees in northern Finland. Holocene, 2007, 17, 435-446.	0.9	159
8	THE LAST ICE SHEET IN NORTH-WEST SCOTLAND: RECONSTRUCTION AND IMPLICATIONS. Quaternary Science Reviews, 1998, 17, 1149-1184.	1.4	145
9	Multiproxy dendroclimatology: a pilot study in northern Finland. Holocene, 2003, 13, 829-838.	0.9	135
10	Clastic dykes in over-consolidated tills: evidence for subglacial hydrofracturing at Killiney Bay, eastern Ireland. Sedimentary Geology, 1999, 129, 111-126.	1.0	130
11	Multiple stable isotopes from oak trees in southwestern Scotland and the potential for stable isotope dendroclimatology in maritime climatic regions. Chemical Geology, 2008, 252, 62-71.	1.4	119
12	Stable carbon isotopes from TornetrÃsk, northern Sweden provide a millennial length reconstruction of summer sunshine and its relationship to Arctic circulation. Quaternary Science Reviews, 2013, 62, 97-113.	1.4	109
13	Blue Reflectance Provides a Surrogate for Latewood Density of High-latitude Pine Tree Rings. Arctic, Antarctic, and Alpine Research, 2002, 34, 450-453.	0.4	103
14	Blue intensity in Pinus sylvestris tree-rings: developing a new palaeoclimate proxy. Holocene, 2007, 17, 821-828.	0.9	102
15	A 1200-year multiproxy record of tree growth and summer temperature at the northern pine forest limit of Europe. Holocene, 2013, 23, 471-484.	0.9	100
16	Deformation styles as a key for interpreting glacial depositional environments. Journal of Quaternary Science, 2003, 18, 473-489.	1.1	93
17	Bayesian modelling the retreat of the Irish Sea Ice Stream. Journal of Quaternary Science, 2013, 28, 200-209.	1.1	93
18	Do tree ring Î´13C series from Pinus sylvestris in northern Fennoscandia contain long-term non-climatic trends?. Chemical Geology, 2008, 252, 42-51.	1.4	91

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19	Potential and Limitations of the Schmidt Hammer for Relative-Age Dating: Field Tests on Neoglacial Moraines, Jotunheimen, Southern Norway. Arctic and Alpine Research, 1989, 21, 268.	1.3	85
20	Latewood Width, Maximum Density, and Stable Carbon Isotope Ratios of Pine as Climate Indicators in a Dry Subalpine Environment, French Alps. Arctic, Antarctic, and Alpine Research, 2004, 36, 166-171.	0.4	81
21	Evidence of changing intrinsic waterâ€use efficiency under rising atmospheric CO₂ concentrations in Boreal Fennoscandia from subfossil leaves and tree ring Î´¹³C ratios. Global Change Biology, 2011, 17, 1064-1072.	4.2	79
22	Cloud response to summer temperatures in Fennoscandia over the last thousand years. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	78
23	Stable carbon isotope ratios of latewood cellulose in Pinus sylvestris from northern Finland: variability and signal-strength. Holocene, 1998, 8, 675-684.	0.9	76
24	Rock-weathering by the lichenLecidea auriculata in an arctic alpine environment. Earth Surface Processes and Landforms, 1995, 20, 199-206.	1.2	75
25	Combining Ring Width, Density and Stable Carbon Isotope Proxies to Enhance the Climate Signal in Tree-Rings: An Example from the Southern French Alps. Climatic Change, 2006, 78, 363-379.	1.7	74
26	Age trends in tree ring growth and isotopic archives: A case study ofPinus sylvestrisL. from northwestern Norway. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	74
27	New evidence for a grounded Irish Sea glaciation of the Isles of Scilly, UK. Quaternary Science Reviews, 2006, 25, 299-309.	1.4	68
28	Changes in atmospheric circulation and the Arctic Oscillation preserved within a millennial length reconstruction of summer cloud cover from northern Fennoscandia. Climate Dynamics, 2012, 39, 495-507.	1.7	68
29	The climate sensitivity of Norway spruce [Picea abies (L.) Karst.] in the southeastern European Alps. Trees - Structure and Function, 2009, 23, 169-180.	0.9	67
30	ROCK SURFACE ROUGHNESS AS AN INDICATOR OF DEGREE OF ROCK SURFACE WEATHERING. Earth Surface Processes and Landforms, 1996, 21, 963-977.	1.2	66
31	Vertical dimensions and age of the Wicklow Mountains ice dome, Eastern Ireland, and implications for the extent of the last Irish Ice Sheet. Quaternary Science Reviews, 2006, 25, 2048-2058.	1.4	65
32	Glaciotectonized quaternary sediments at Dinas Dinlle, Gwynedd, North Wales, and their bearing on the style of deglaciation in the Eastern Irish Sea. Quaternary Science Reviews, 1997, 16, 109-127.	1.4	63
33	The schmidt hammer, weathering and rock surface roughness. Earth Surface Processes and Landforms, 1991, 16, 477-480.	1.2	61
34	Characterizing carbon isotopic variability in Sphagnum. Holocene, 2007, 17, 403-410.	0.9	59
35	Exposure-age constraints on the extent, timing and rate of retreat of the last Irish Sea ice stream. Quaternary Science Reviews, 2010, 29, 1844-1852.	1.4	59
36	Multi-archive summer temperature reconstruction for the European Alps, ADÂ1053â€“1996. Quaternary Science Reviews, 2012, 46, 66-79.	1.4	59

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37	Contemporary terminalâ€moraine ridge formation at a temperate glacier: Styggedalsbreen, Jotunheimen, southern Norway. Boreas, 1995, 24, 129-139.	1.2	58
38	The last ice sheet in Snowdonia. Journal of Quaternary Science, 2000, 15, 765-778.	1.1	56
39	The Donegal ice dome, northwest Ireland: dimensions and chronology. Journal of Quaternary Science, 2007, 22, 773-783.	1.1	56
40	Deglaciation of the Irish Sea Basin: a critique of the glaciomarine hypothesis. Journal of Quaternary Science, 2001, 16, 393-404.	1.1	55
41	Oxygen stable isotope ratios from British oak tree-rings provide a strong and consistent record of past changes in summer rainfall. Climate Dynamics, 2015, 45, 3609-3622.	1.7	55
42	Spatial and Temporal Patterns of Late Holocene Rockfall Activity on a Norwegian Talus Slope: A Lichenometric and Simulation-Modeling Approach. Arctic and Alpine Research, 1998, 30, 51.	1.3	54
43	Dimensions and chronology of the last ice sheet in Western Ireland. Quaternary Science Reviews, 2008, 27, 185-200.	1.4	54
44	Recent trends in the intrinsic water-use efficiency of ringless rainforest trees in Borneo. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3330-3339.	1.8	54
45	Blue Intensity In Pinus sylvestris Tree Rings: A Manual for A New Palaeoclimate Proxy. Tree-Ring Research, 2011, 67, 127-134.	0.4	54
46	New age constraints for the limit of the Britishâ€“Irish Ice Sheet on the Isles of Scilly. Journal of Quaternary Science, 2017, 32, 48-62.	1.1	53
47	Tree ring dating using oxygen isotopes: a master chronology for central England. Journal of Quaternary Science, 2019, 34, 475-490.	1.1	52
48	Nunataks of the last ice sheet in northwest Scotland. Boreas, 1995, 24, 305-323.	1.2	51
49	Stable isotope coherence in the earlywood and latewood of tree-line conifers. Chemical Geology, 2009, 268, 52-57.	1.4	49
50	Periglacial trimlines, former nunataks and the altitude of the last ice sheet in Wester Ross, northwest Scotland. Journal of Quaternary Science, 1997, 12, 225-238.	1.1	48
51	A new approach to lichenometry: dating single-age and diachronous surfaces. Holocene, 1994, 4, 383-396.	0.9	47
52	The vertical extent of ice sheets in Nordfjord, western Norway: measuring degree of rock surface weathering. Boreas, 1993, 22, 255-265.	1.2	45
53	The vertical dimensions of Late Devensian glaciation on the mountains of Harris and southeast Lewis, Outer Hebrides, Scotland. Journal of Quaternary Science, 1995, 10, 211-223.	1.1	44
54	Spectral roughness of glaciated bedrock geomorphic surfaces: Implications for glacier sliding. Journal of Geophysical Research, 2000, 105, 21295-21303.	3.3	44

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55	Position-specific measurement of oxygen isotope ratios in cellulose: Isotopic exchange during heterotrophic cellulose synthesis. Geochimica Et Cosmochimica Acta, 2013, 112, 178-191.	1.6	44
56	The glacigenic deposits of Western Lleyn, North Wales: Terrestrial or marine?. Journal of Quaternary Science, 1992, 7, 19-29.	1.1	43
57	A critical evaluation of multiâ€proxy dendroclimatology in northern Finland. Journal of Quaternary Science, 2011, 26, 7-14.	1.1	43
58	Blue Reflectance Provides a Surrogate for Latewood Density of High-Latitude Pine Tree Rings. Arctic, Antarctic, and Alpine Research, 2002, 34, 450.	0.4	42
59	Internal dynamics condition centennial-scale oscillations in marine-based ice-stream retreat. Geology, 2017, 45, 787-790.	2.0	41
60	Modelling late-holocene snow-avalanche activity: Incorporating a new approach to lichenometry. Earth Surface Processes and Landforms, 1993, 18, 527-539.	1.2	40
61	Central England temperature since AD 1850: the potential of stable carbon isotopes in British oak trees to reconstruct past summer temperatures. Journal of Quaternary Science, 2012, 27, 606-614.	1.1	39
62	Quantifying uncertainty in isotope dendroclimatology. Holocene, 2013, 23, 1221-1226.	0.9	39
63	Enhanced rockfall activity during the Little Ice Age: further lichenometric evidence from a Norwegian talus. Permafrost and Periglacial Processes, 2001, 12, 157-164.	1.5	37
64	Extracting Climatic Information from Stable Isotopes in Tree Rings. Journal of Nano Education (Print), 2007, 1, 25-48.	0.3	37
65	â€˜Study the past, if you would divine the futureâ€™: a retrospective on measuring and understanding Quaternary climate change. Journal of Quaternary Science, 2015, 30, 154-187.	1.1	36
66	Snow-Avalanche Impact Landforms in Breheimen, Southern Norway: Origin, Age, and Paleoclimatic Implications. Arctic and Alpine Research, 1994, 26, 103.	1.3	35
67	Measuring the skill of variance-scaled climate reconstructions and a test for the capture of extremes. Holocene, 2015, 25, 618-626.	0.9	35
68	Foraminifera from the Irish Sea glacigenic deposits at Aberdaron, western Lleyn, North Wales: Palaeoenvironmental implications. Journal of Quaternary Science, 1992, 7, 311-317.	1.1	34
69	Climate signals in the ring widths and stable carbon, hydrogen and oxygen isotopic composition of Larix decidua growing at the forest limit in the southeastern European Alps. Trees - Structure and Function, 2011, 25, 1141-1154.	0.9	34
70	The surface geometry of the Last Glacial Maximum ice sheet in the AndÃ¸yaâ€“SkÃ¥nland region, northern Norway, constrained by surface exposure dating and clay mineralogy. Boreas, 2007, 36, 227-239.	1.2	33
71	Spatial and temporal stability of the climatic signal in northern Fennoscandian pine treeâ€ring width and maximum density. Boreas, 2009, 38, 1-12.	1.2	33
72	An annually resolved bristlecone pine carbon isotope chronology for the last millennium. Quaternary Research, 2011, 76, 22-29.	1.0	33

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73	The 225-year precipitation variability inferred from tree-ring records in Shanxi Province, the North China, and its teleconnection with Indian summer monsoon. Global and Planetary Change, 2015, 132, 11-19.	1.6	33
74	Amino-acid geochronology and the British Pleistocene: secure stratigraphical framework or a case of circular reasoning?. Journal of Quaternary Science, 2002, 17, 647-651.	1.1	32
75	A simple stable carbon isotope method for investigating changes in the use of recent versus old carbon in oak. Tree Physiology, 2017, 37, 1021-1027.	1.4	32
76	The age and origin of Neoglacial moraines in Jotunheimen, southern Norway: new evidence from weatheringâ€based data. Boreas, 1991, 20, 283-295.	1.2	31
77	A 520Âyear record of summer sunshine for the eastern European Alps based on stable carbon isotopes in larch tree rings. Climate Dynamics, 2014, 43, 971-980.	1.7	31
78	Stable oxygen isotopes in Romanian oak tree rings record summer droughts and associated large-scale circulation patterns over Europe. Climate Dynamics, 2019, 52, 6557-6568.	1.7	31
79	Differential weathering of feldspar and pyroxene in an arctic-alpine environment. Earth Surface Processes and Landforms, 1990, 15, 641-651.	1.2	30
80	Relative-age dating of inorganic deposits: the need for a more critical approach. Holocene, 1991, 1, 174-180.	0.9	30
81	Degree of rock surface weathering as an indicator of ice-sheet thickness along an eastâ€"west transect across southern Norway. Journal of Quaternary Science, 1994, 9, 337-347.	1.1	30
82	Pronival ("Protalus") Ramparts in the Romsdalsalpane, Southern Norway: Forms, Terms, Subnival Processes, and Alternative Mechanisms of Formation. Arctic and Alpine Research, 1995, 27, 271.	1.3	30
83	Periglacial trimlines and the extent of the Kerry-Cork Ice Cap, SW Ireland. Quaternary Science Reviews, 2011, 30, 3834-3845.	1.4	30
84	Stable Isotopes in Dendroclimatology: Moving Beyond â€˜Potentialâ€™. Developments in Paleoenvironmental Research, 2011, , 147-172.	7.5	30
85	A new instrument and techniques for the field measurement of rock surface roughness. Zeitschrift FÃ¼r Geomorphologie, 1992, 36, 69-79.	0.3	30
86	Maximum altitude of Devensian glaciation on the Isle of Skye. Scottish Journal of Geology, 1996, 32, 107-115.	0.1	29
87	Estimating uncertainty in pooled stable isotope time-series from tree-rings. Chemical Geology, 2012, 294-295, 243-248.	1.4	28
88	Highâ€temperature pyrolysis/gas chromatography/isotope ratio mass spectrometry: simultaneous measurement of the stable isotopes of oxygen and carbon in cellulose. Rapid Communications in Mass Spectrometry, 2012, 26, 109-114.	0.7	28
89	North Atlantic summer storm tracks over Europe dominated by internal variability over the pastÂmillennium. Nature Geoscience, 2016, 9, 630-635.	5.4	28
90	Absence of Ageâ€Related Trends in Stable Oxygen Isotope Ratios From Oak Tree Rings. Global Biogeochemical Cycles, 2019, 33, 841-848.	1.9	28

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91	Short-lived juvenile effects observed in stable carbon and oxygen isotopes of UK oak trees and historic building timbers. Chemical Geology, 2017, 472, 1-7.	1.4	25
92	Summer precipitation for the England and Wales region, 1201â€“2000 <scp>ce</scp>, from stable oxygen isotopes in oak tree rings. Journal of Quaternary Science, 2020, 35, 731-736.	1.1	25
93	A rapid method for the production of robust millennial length stable isotope tree ring series for climate reconstruction. Global and Planetary Change, 2012, 82-83, 96-103.	1.6	24
94	ISOTOPES IN TREE RINGS. , 2006, , 67-116.		23
95	Extracting Climatic Information from Stable Isotopes in Tree Rings. , 2007, , 27-48.		21
96	Future climate change and the British Quaternary research community. Quaternary Science Reviews, 2010, 29, 1661-1672.	1.4	18
97	A large scale comparative study of stable carbon isotope ratios determined using on-line combustion and low-temperature pyrolysis techniques. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 300, 23-28.	1.0	18
98	Late-holocene snow-avalanche activity in southern norway: Interpreting lichen sizeâ€“frequency distributions using an alternative to simulation modelling. Earth Surface Processes and Landforms, 1995, 20, 465-471.	1.2	17
99	Maximum altitude of the Late Devensian ice sheet on the Isle of Rum. Scottish Journal of Geology, 1997, 33, 183-186.	0.1	17
100	Spring temperature variability in northern Fennoscandia AD 1693â€“2011. Journal of Quaternary Science, 2011, 26, 566-570.	1.1	17
101	Ice directions in western lleyn and the status of the gwynedd readvance of the last irish sea glacier. Geological Journal, 1991, 26, 137-143.	0.6	16
102	Snow-Avalanche Impact Landforms: A Brief Discussion of Terminology. Arctic and Alpine Research, 1994, 26, 128.	1.3	16
103	Comparing the performance of different stomatal conductance models using modelled and measured plant carbon isotope ratios (Î´¹³C): implications for assessing physiological forcing. Global Change Biology, 2013, 19, 1709-1719.	4.2	15
104	Geomorphological evidence from the Lleyn Peninsula constraining models of the magnitude and rate of isostatic rebound during deglaciation of the Irish Sea Basin. Geological Journal, 1995, 30, 157-163.	0.6	14
105	A template for calculating rock surface roughness. Earth Surface Processes and Landforms, 1997, 22, 1229-1230.	1.2	13
106	Trimline Trauma: The Wider Implications of a Paradigm Shift in Recognising and Interpreting Glacial Limits. Scottish Geographical Journal, 2016, 132, 130-139.	0.4	13
107	Oxygen isotope dendrochronology of Llwyn Celyn; One of the oldest houses in Wales. Dendrochronologia, 2019, 58, 125653.	1.0	12
108	Cloud Cover Feedback Moderates Fennoscandian Summer Temperature Changes Over the Past 1,000ÂYears. Geophysical Research Letters, 2019, 46, 2811-2819.	1.5	12

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109	Absence of juvenile effects confirmed in stable carbon and oxygen isotopes of European larch trees. Acta Silvae Et Ligni, 2016, 111, 27-33.	0.3	12
110	A comment on â€˜enhanced boulder weathering under late-lying snow patchesâ€™ by ballantyne, C. K., Black, N. M., and Finlay, D. P.. Earth Surface Processes and Landforms, 1990, 15, 467-469.	1.2	11
111	Foraminifera from the glacigenic deposits at Broughton Bay, South Wales: evidence for glacimarine or terrestrial ice-sheet deglaciation of the Irish Sea Basin?. Proceedings of the Geologists Association, 2000, 111, 147-152.	0.6	11
112	Reinterpreting Rotherslade, Gower Peninsula: implications for Last Glacial ice limits and Quaternary stratigraphy of the British Isles. Journal of Quaternary Science, 2009, 24, 399-410.	1.1	11
113	Dating of non-oak species in the United Kingdom historical buildings archive using stable oxygen isotopes. Dendrochronologia, 2021, 69, 125862.	1.0	10
114	Tree-ring isotopes suggest atmospheric drying limits temperatureâ€“growth responses of treeline bristlecone pine. Tree Physiology, 2019, 39, 983-999.	1.4	9
115	Are there enormous age-trends in stable carbon isotope ratios of oak tree rings?. Holocene, 2020, 30, 1637-1642.	0.9	8
116	â€œStriationsâ€•Produced by Catastrophic Subglacial Drainage of a Glacier-dammed Lake, MjÃ¸lkedalsbreen, Southern Norway. Journal of Glaciology, 1989, 35, 193-196.	1.1	6
117	Climate Signals in Stable Isotope Tree-Ring Records. Tree Physiology, 2022, , 537-579.	0.9	6
118	Introduction: The glaciation of the Irish Sea basin. Journal of Quaternary Science, 2001, 16, 391-392.	1.1	5
119	Average Glacial Conditions and the Landscape of Snowdonia. , 0, , 266-268.		5
120	The surface geometry of the Last Glacial Maximum ice sheet in the AndÃ¸ya-SkÃ¥nland region, northern Norway, constrained by surface exposure dating and clay mineralogy. Boreas, 2007, 36, 227-239.	1.2	4
121	Lichens: Lichenometric dating of diachronous surfaces. Earth Surface Processes and Landforms, 1995, 20, 829-831.	1.2	3
122	Common temperature signal in four wellâ€•replicated tree growth series from northern Fennoscandia. Journal of Quaternary Science, 2012, 27, 828-834.	1.1	3
123	Reply to Comment by S. Helama and V. V. Matskovsky onâ€œAbsence of Ageâ€Related Trends in Stable Oxygen Isotope Ratios From Oak Tree Ringsâ€• Global Biogeochemical Cycles, 2020, 34, e2019GB006474.	1.9	3
124	The use of shallow seismic techniques to characterize sub-surface Quaternary deposits: the example of Porth Neigwl (Hells Mouth Bay), Gwynedd, N. Wales. Quarterly Journal of Engineering Geology and Hydrogeology, 1999, 32, 119-137.	0.8	3
125	Climate variability of the British Isles and adjoining seas. Quaternary Science Reviews, 2010, 29, 1503-1506.	1.4	1
126	Upheaval from the abyss: ocean floor mapping and the earth science revolution. Area, 2003, 35, 223-224.	1.0	0

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127	Degree of rock surface weathering on fjell summits in northern Finland: implications for the thermal regime of the last ice sheet. Boreas, 1996, 25, 1-7.	1.2	0