

Julian B Murton

List of Publications by Year in descending order

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80
papers

4,914
citations

94433

37
h-index

95266

68
g-index

89
all docs

89
docs citations

89
times ranked

5154
citing authors

#	ARTICLE	IF	CITATIONS
1	Fifty thousand years of Arctic vegetation and megafaunal diet. <i>Nature</i> , 2014, 506, 47-51.	27.8	505
2	Permafrost and climate in Europe: Monitoring and modelling thermal, geomorphological and geotechnical responses. <i>Earth-Science Reviews</i> , 2009, 92, 117-171.	9.1	499
3	Bedrock Fracture by Ice Segregation in Cold Regions. <i>Science</i> , 2006, 314, 1127-1129.	12.6	308
4	The configuration of Northern Hemisphere ice sheets through the Quaternary. <i>Nature Communications</i> , 2019, 10, 3713.	12.8	284
5	Frost weathering: recent advances and future directions. <i>Permafrost and Periglacial Processes</i> , 2008, 19, 195-210.	3.4	276
6	Identification of Younger Dryas outburst flood path from Lake Agassiz to the Arctic Ocean. <i>Nature</i> , 2010, 464, 740-743.	27.8	240
7	The geomorphology of the Anthropocene: emergence, status and implications. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 71-90.	2.5	183
8	The influence of vegetation and soil characteristics on active layer thickness of permafrost soils in boreal forest. <i>Global Change Biology</i> , 2016, 22, 3127-3140.	9.5	131
9	On the reconstruction of palaeo-ice sheets: Recent advances and future challenges. <i>Quaternary Science Reviews</i> , 2015, 125, 15-49.	3.0	125
10	Sand veins and wedges in cold aeolian environments. <i>Quaternary Science Reviews</i> , 2000, 19, 899-922.	3.0	118
11	Cryostructures in permafrost, Tuktoyaktuk coastlands, western arctic Canada. <i>Canadian Journal of Earth Sciences</i> , 1994, 31, 737-747.	1.3	116
12	Palaeoenvironmental Interpretation of Yedoma Silt (Ice Complex) Deposition as Cold Climate Loess, Duvanny Yar, Northeast Siberia. <i>Permafrost and Periglacial Processes</i> , 2015, 26, 208-288.	3.4	110
13	Thermokarst-lake-basin sediments, Tuktoyaktuk Coastlands, western arctic Canada. <i>Sedimentology</i> , 1996, 43, 737-760.	3.1	84
14	Ice-wedge casts as indicators of palaeotemperatures: precise proxy or wishful thinking?. <i>Progress in Physical Geography</i> , 2003, 27, 155-170.	3.2	78
15	Physical modelling of bedrock brecciation by ice segregation in permafrost. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 255-266.	3.4	75
16	Basal ice facies and supraglacial melt-out till of the Laurentide Ice Sheet, Tuktoyaktuk Coastlands, western Arctic Canada. <i>Quaternary Science Reviews</i> , 2005, 24, 681-708.	3.0	69
17	Limited contribution of permafrost carbon to methane release from thawing peatlands. <i>Nature Climate Change</i> , 2017, 7, 507-511.	18.8	69
18	Glacier-permafrost interactions: Processes, products and glaciological implications. <i>Sedimentary Geology</i> , 2012, 255-256, 1-28.	2.1	67

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19	Near-surface brecciation of chalk, Isle of Thanet, south-east England: a comparison with ice-rich brecciated bedrocks in Canada and Spitsbergen. <i>Permafrost and Periglacial Processes</i> , 1996, 7, 153-164.	3.4	66
20	Solifluction processes on permafrost and non-permafrost slopes: results of a large-scale laboratory simulation. <i>Permafrost and Periglacial Processes</i> , 2008, 19, 359-378.	3.4	66
21	Stratigraphy and glaciotectonic structures of permafrost deformed beneath the northwest margin of the Laurentide ice sheet, Tuktoyaktuk Coastlands, Canada. <i>Journal of Glaciology</i> , 2004, 50, 399-412.	2.2	58
22	Preliminary paleoenvironmental analysis of permafrost deposits at Batagaika megaslump, Yana Uplands, northeast Siberia. <i>Quaternary Research</i> , 2017, 87, 314-330.	1.7	58
23	A late Middle Pleistocene temperate-periglacial temperate sequence (Oxygen Isotope Stages 7-5e) near Marsworth, Buckinghamshire, UK. <i>Quaternary Science Reviews</i> , 2001, 20, 1787-1825.	3.0	57
24	The chronostratigraphy of Late Pleistocene glacial and periglacial aeolian activity in the Tuktoyaktuk Coastlands, NWT, Canada. <i>Quaternary Science Reviews</i> , 2006, 25, 2552-2568.	3.0	56
25	Thermokarst involutions, Summer Island, Pleistocene Mackenzie Delta, Western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 1993, 4, 217-229.	3.4	51
26	Late Wisconsinan erosion and eolian deposition, Summer Island area, Pleistocene Mackenzie Delta, Northwest Territories: optical dating and implications for glacial chronology. <i>Canadian Journal of Earth Sciences</i> , 1997, 34, 190-199.	1.3	51
27	Middle and Late Pleistocene glacial lakes of lowland Britain and the southern North Sea Basin. <i>Quaternary International</i> , 2012, 260, 115-142.	1.5	50
28	Experimental design for a pilot study on bedrock weathering near the permafrost table. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 1281-1294.	2.5	48
29	Thaw modification of frost-fissure wedges, Richards Island, Pleistocene Mackenzie Delta, Western Arctic Canada. <i>Journal of Quaternary Science</i> , 1993, 8, 185-196.	2.1	47
30	Soft-sediment deformation during thawing of ice-rich frozen soils: results of scaled centrifuge modelling experiments. <i>Sedimentology</i> , 2000, 47, 687-700.	3.1	47
31	Ice wedges as archives of winter paleoclimate: A review. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 199-209.	3.4	47
32	The Devensian periglacial record on Thanet, Kent, UK. <i>Permafrost and Periglacial Processes</i> , 2003, 14, 217-246.	3.4	46
33	Ground-ice stratigraphy and formation at North Head, Tuktoyaktuk Coastlands, western Arctic Canada: a product of glacier-permafrost interactions. <i>Permafrost and Periglacial Processes</i> , 2005, 16, 31-50.	3.4	45
34	Sand intraclasts as evidence of subglacial deformation of Middle Pleistocene permafrost, North Norfolk, UK. <i>Quaternary Science Reviews</i> , 2011, 30, 3481-3500.	3.0	43
35	Involutions in the Middle Pleistocene (Anglian) Barham Soil, eastern England: a comparison with thermokarst involutions from arctic Canada. <i>Boreas</i> , 1995, 24, 269-280.	2.4	41
36	Syngenetic sand veins and anti-syngenetic sand wedges, Tuktoyaktuk Coastlands, western Arctic Canada. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 33-47.	3.4	37

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37	Recent Advances (2008â€“2015) in the Study of Ground Ice and Cryostratigraphy. Permafrost and Periglacial Processes, 2016, 27, 377-389.	3.4	37
38	Past climate and continentality inferred from ice wedges at Batagay megaslump in the Northern Hemisphere's most continental region, Yana Highlands, interior Yakutia. Climate of the Past, 2019, 15, 1443-1461.	3.4	35
39	Interactions between glaciers and permafrost: an introduction. Geological Society Special Publication, 2005, 242, 1-9.	1.3	34
40	Recent advances in the understanding of Quaternary periglacial features of the English Channel coastlands. Journal of Quaternary Science, 2003, 18, 301-307.	2.1	33
41	Stratigraphy and palaeoenvironments of Richards Island and the eastern Beaufort Continental Shelf during the last glacialâ€“interglacial cycle. Permafrost and Periglacial Processes, 2009, 20, 107-125.	3.4	33
42	Monitoring rock freezing and thawing by novel geoelectrical and acoustic techniques. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2309-2332.	2.8	31
43	Luminescence dating of mid- to Late Wisconsinan aeolian sand as a constraint on the last advance of the Laurentide Ice Sheet across the Tuktoyaktuk Coastlands, western Arctic Canada. Canadian Journal of Earth Sciences, 2007, 44, 857-869.	1.3	30
44	Geological evidence for subglacial deformation of Pleistocene permafrost. Proceedings of the Geologists Association, 2009, 120, 155-162.	1.1	30
45	Sedimentology and luminescence ages of Glacial Lake Humber deposits in the central Vale of York. Proceedings of the Geologists Association, 2009, 120, 209-222.	1.1	29
46	A conceptual model of valley incision, planation and terrace formation during cold and arid permafrost conditions of Pleistocene southern England. Quaternary Research, 2011, 75, 385-394.	1.7	29
47	The evolution of periglacial patterned ground in East Anglia, UK. Journal of Quaternary Science, 2014, 29, 301-317.	2.1	29
48	The source of De variability in periglacial sand wedges: Depositional processes versus measurement issues. Quaternary Geochronology, 2010, 5, 250-256.	1.4	28
49	Late Devensian and Holocene depositional environments associated with the coversand around Caistor, north Lincolnshire, UK. Boreas, 2000, 29, 1-15.	2.4	25
50	Heave, settlement and fracture of chalk during physical modelling experiments with temperature cycling above and below 0Â°C. Geomorphology, 2016, 270, 71-87.	2.6	24
51	What and where are periglacial landscapes?. Permafrost and Periglacial Processes, 2021, 32, 186-212.	3.4	24
52	A multimethod dating study of ancient permafrost, Batagay megaslump, east Siberia. Quaternary Research, 2022, 105, 1-22.	1.7	24
53	Middle and Late Pleistocene environmental history of the Marsworth area, south-central England. Proceedings of the Geologists Association, 2015, 126, 18-49.	1.1	18
54	A new indicator of glacial dispersal: Lead isotopes. Quaternary Science Reviews, 1995, 14, 275-287.	3.0	16

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55	Micro-computed tomography imaging and probabilistic modelling of rock fracture by freeze-thaw. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 666-680.	2.5	16
56	Quaternary geology of the Buchans area, Newfoundland: implications for mineral exploration. <i>Canadian Journal of Earth Sciences</i> , 1996, 33, 363-377.	1.3	12
57	Oriented-lake development in the context of late Quaternary landscape evolution, McKinley Bay Coastal Plain, western Arctic Canada. <i>Quaternary Science Reviews</i> , 2020, 242, 106414.	3.0	12
58	Global Warming and Thermokarst. <i>Soil Biology</i> , 2009, , 185-203.	0.8	12
59	An analysis of mechanisms of ice-wedge casting based on geotechnical centrifuge simulations. <i>Geomorphology</i> , 2005, 71, 328-343.	2.6	11
60	Pleistocene glacial and interglacial ecosystems inferred from ancient <i>scp>DNA</scp></i> analyses of permafrost sediments from Batagay megaslump, East Siberia. <i>Environmental DNA</i> , 2022, 4, 1265-1283.	5.8	11
61	Morphology and Palaeoenvironmental Significance of Quaternary Sand Veins, Sand Wedges, and Composite Wedges, Tuktoyaktuk Coastlands, Western Arctic Canada. <i>Journal of Sedimentary Research</i> , 1996, Vol. 66, .	1.6	9
62	Experimental simulation of ice-wedge casting: processes, products and palaeoenvironmental significance. <i>Geological Society Special Publication</i> , 2005, 242, 131-143.	1.3	9
63	Detection of the freezing state and frozen section thickness of fine sand by ultrasonic testing. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 76-91.	3.4	9
64	Experimental Observations and Statistical Modeling of Crack Propagation Dynamics in Limestone by Acoustic Emission Analysis During Freezing and Thawing. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006127.	2.8	8
65	Experimental observations that simulated active-layer deepening drives deeper rock fracture. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 296-310.	3.4	7
66	Early to mid Wisconsin Fluvial Deposits and Palaeoenvironment of the Kidluit Formation, Tuktoyaktuk Coastlands, Western Arctic Canada. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 523-533.	3.4	6
67	Basal glacier ice and massive ground ice: different scientists, same science?. <i>Geological Society Special Publication</i> , 2009, 320, 57-69.	1.3	5
68	Sensitivity and regression analysis of acoustic parameters for determining physical properties of frozen fine sand with ultrasonic test. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2021, 54, .	1.4	5
69	Permafrost and climate change. , 2021, , 281-326.		5
70	Mid-Devensian climate and landscape in England: new data from Finningley, South Yorkshire. <i>Royal Society Open Science</i> , 2019, 6, 190577.	2.4	4
71	Ground Ice. , 2022, , 428-457.		3
72	Cryostratigraphy. , 2021, , 458-458.		2

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73	Periglacial Processes and Deposits. , 2021, , 857-875.		2
74	Timing and dynamics of Late Wolstonian Substage â€”Moreton Stadialâ€”™ (MIS 6) glaciation in the English West Midlands, UK. Royal Society Open Science, 2022, 9, .	2.4	2
75	Periglacial cryostratigraphy, palaeoenvironments and processes: Papers from a Periglacial Workshop, University of Wales, Cardiff, UK, 16â€”17 December 1997. Preface. Permafrost and Periglacial Processes, 1998, 9, 295-296.	3.4	0
76	The Behaviour of Glaciers on Frozen Beds: Modern and Pleistocene Examples. , 0, , 326-328.		0
77	Late Pleistocene Cold-Climate Loess Deposits of Beringia. Scottish Geographical Journal, 2016, 132, 177-181.	1.1	0
78	Hugh French memorial for <i>Permafrost and Periglacial Processes</i>. Permafrost and Periglacial Processes, 2021, 32, 181-185.	3.4	0
79	Geological Society of London Engineering Group Working Party on Periglacial and Glacial Engineering Geology. , 2015, , 31-35.		0
80	Evaluation of freezing state of sandstone using ultrasonic time-frequency characteristics. Journal of Rock Mechanics and Geotechnical Engineering, 2022, , .	8.1	0