

Matt O'Regan

List of Publications by Year in descending order

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108
papers

5,692
citations

101543

36
h-index

82547

72
g-index

149
all docs

149
docs citations

149
times ranked

5417
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006, 441, 610-613.	27.8	578
2	The Cenozoic palaeoenvironment of the Arctic Ocean. <i>Nature</i> , 2006, 441, 601-605.	27.8	471
3	Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006, 442, 671-675.	27.8	410
4	History of sea ice in the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1757-1778.	3.0	343
5	Episodic fresh surface waters in the Eocene Arctic Ocean. <i>Nature</i> , 2006, 441, 606-609.	27.8	284
6	The early Miocene onset of a ventilated circulation regime in the Arctic Ocean. <i>Nature</i> , 2007, 447, 986-990.	27.8	208
7	Arctic Ocean glacial history. <i>Quaternary Science Reviews</i> , 2014, 92, 40-67.	3.0	184
8	Age model and core seismic integration for the Cenozoic Arctic Coring Expedition sediments from the Lomonosov Ridge. <i>Paleoceanography</i> , 2008, 23, .	3.0	157
9	Erosion of organic carbon in the Arctic as a geological carbon dioxide sink. <i>Nature</i> , 2015, 524, 84-87.	27.8	141
10	Evidence for an ice shelf covering the central Arctic Ocean during the penultimate glaciation. <i>Nature Communications</i> , 2016, 7, 10365.	12.8	133
11	Geological record of ice shelf break-up and grounding line retreat, Pine Island Bay, West Antarctica. <i>Geology</i> , 2011, 39, 691-694.	4.4	125
12	Planktonic foraminifera stable isotopes and water column structure: Disentangling ecological signals. <i>Marine Micropaleontology</i> , 2013, 101, 127-145.	1.2	111
13	An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. <i>Quaternary Science Reviews</i> , 2010, 29, 3505-3517.	3.0	104
14	Ice sheet retreat dynamics inferred from glacial morphology of the central Pine Island Bay Trough, West Antarctica. <i>Quaternary Science Reviews</i> , 2012, 38, 1-10.	3.0	94
15	Post-glacial flooding of the Bering Land Bridge dated to 11â€calâ€kaâ€BP based on new geophysical and sediment records. <i>Climate of the Past</i> , 2017, 13, 991-1005.	3.4	85
16	Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge. <i>Paleoceanography</i> , 2008, 23, .	3.0	80
17	Quaternary Arctic Ocean sea ice variations and radiocarbon reservoir age corrections. <i>Quaternary Science Reviews</i> , 2010, 29, 3430-3441.	3.0	79
18	Viscoelastic properties modulation of a novel autocrosslinked hyaluronic acid polymer. <i>Journal of Materials Science: Materials in Medicine</i> , 1996, 7, 695-698.	3.6	77

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19	Post-LGM deglaciation in Pine Island Bay, West Antarctica. <i>Quaternary Science Reviews</i> , 2012, 38, 11-26.	3.0	73
20	Beryllium isotopes in central Arctic Ocean sediments over the past 12.3 million years: Stratigraphic and paleoclimatic implications. <i>Paleoceanography</i> , 2008, 23, .	3.0	71
21	Quantitative assessment of the tissue response to films of hyaluronan derivatives. <i>Biomaterials</i> , 1996, 17, 963-975.	11.4	69
22	Export of nutrient rich Northern Component Water preceded early Oligocene Antarctic glaciation. <i>Nature Geoscience</i> , 2018, 11, 190-196.	12.9	67
23	A 26 million year gap in the central Arctic record at the greenhouse-icehouse transition: Looking for clues. <i>Paleoceanography</i> , 2008, 23, .	3.0	65
24	Arctic Ocean Mn-stratigraphy: genesis, synthesis and inter-basin correlation. <i>Quaternary Science Reviews</i> , 2014, 92, 97-111.	3.0	64
25	Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. <i>Polar Research</i> , 2015, 34, 249-64.	1.6	59
26	Quaternary paleoceanography of the central Arctic based on Integrated Ocean Drilling Program Arctic Coring Expedition 302 foraminiferal assemblages. <i>Paleoceanography</i> , 2008, 23, .	3.0	58
27	High-resolution geophysical observations of the Yermak Plateau and northern Svalbard margin: implications for ice-sheet grounding and deep-keeled icebergs. <i>Quaternary Science Reviews</i> , 2010, 29, 3518-3531.	3.0	57
28	Complex polarity pattern at the former Pliocene-Pleistocene global stratotype section at Vrica (Italy): Remagnetization by magnetic iron sulphides. <i>Earth and Planetary Science Letters</i> , 2010, 292, 98-111.	4.4	55
29	Arctic closure as a trigger for Atlantic overturning at the Eocene-Oligocene Transition. <i>Nature Communications</i> , 2019, 10, 3797.	12.8	49
30	An Arctic perspective on dating Mid-Late Pleistocene environmental history. <i>Quaternary Science Reviews</i> , 2014, 92, 9-31.	3.0	48
31	Major earthquake at the Pleistocene-Holocene transition in Lake Vättern, southern Sweden. <i>Geology</i> , 2014, 42, 379-382.	4.4	46
32	Changes in sea ice cover and ice sheet extent at the Yermak Plateau during the last 160 ka - Reconstructions from biomarker records. <i>Quaternary Science Reviews</i> , 2018, 182, 93-108.	3.0	43
33	Late Quaternary spatial and temporal variability in Arctic deep-sea bioturbation and its relation to Mn cycles. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 365-366, 192-208.	2.3	42
34	Plio-Pleistocene trends in ice rafted debris on the Lomonosov Ridge. <i>Quaternary International</i> , 2010, 219, 168-176.	1.5	38
35	Spatial and temporal Arctic Ocean depositional regimes: a key to the evolution of ice drift and current patterns. <i>Quaternary Science Reviews</i> , 2010, 29, 3644-3664.	3.0	37
36	Remobilization of dormant carbon from Siberian-Arctic permafrost during three past warming events. <i>Science Advances</i> , 2020, 6, .	10.3	37

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37	Mid-Cenozoic tectonic and paleoenvironmental setting of the central Arctic Ocean. <i>Paleoceanography</i> , 2008, 23, .	3.0	35
38	Remobilization of Old Permafrost Carbon to Chukchi Sea Sediments During the End of the Last Deglaciation. <i>Global Biogeochemical Cycles</i> , 2019, 33, 2-14.	4.9	35
39	Shelf-Basin interaction along the East Siberian Sea. <i>Ocean Science</i> , 2017, 13, 349-363.	3.4	34
40	Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. <i>Environmental Research Letters</i> , 2020, 15, 124075.	5.2	34
41	Past ice flow in Wahlenbergfjorden and its implications for late Quaternary ice sheet dynamics in northeastern Svalbard. <i>Quaternary Science Reviews</i> , 2017, 163, 162-179.	3.0	31
42	The 3.6-ka Aniakchak tephra in the Arctic Ocean: a constraint on the Holocene radiocarbon reservoir age in the Chukchi Sea. <i>Climate of the Past</i> , 2017, 13, 303-316.	3.4	31
43	Dynamic simulations of potential methane release from East Siberian continental slope sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 872-886.	2.5	30
44	Reconstructive surgery of the urethra: a pilot study in the rabbit on the use of hyaluronan benzyl ester (Hyaff-11) biodegradable grafts. <i>Urological Research</i> , 1997, 25, 137-142.	1.5	28
45	Bathymetric properties of the Baltic Sea. <i>Ocean Science</i> , 2019, 15, 905-924.	3.4	28
46	Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	28
47	Biotin formation by recombinant strains of <i>Escherichia coli</i> : influence of the host physiology. <i>Journal of Biotechnology</i> , 1991, 20, 29-49.	3.8	26
48	A Synthesis of the Long-Term Paleoclimatic Evolution of the Arctic. <i>Oceanography</i> , 2011, 24, 66-80.	1.0	26
49	Multiple readvances of a Lake Vättern outlet glacier during Fennoscandian Ice Sheet retreat, south-central Sweden. <i>Boreas</i> , 2015, 44, 619-637.	2.4	25
50	Glacial landforms and their implications for glacier dynamics in Rijpfjorden and Duvefjorden, northern Nordaustlandet, Svalbard. <i>Journal of Quaternary Science</i> , 2017, 32, 437-455.	2.1	25
51	Deglacial sea level history of the East Siberian Sea and Chukchi Sea margins. <i>Climate of the Past</i> , 2017, 13, 1097-1110.	3.4	25
52	Surface heat flow measurements from the East Siberian continental slope and southern Lomonosov Ridge, Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1608-1622.	2.5	23
53	Pore water geochemistry along continental slopes north of the East Siberian Sea: inference of low methane concentrations. <i>Biogeosciences</i> , 2017, 14, 2929-2953.	3.3	22
54	The De Long Trough: a newly discovered glacial trough on the East Siberian continental margin. <i>Climate of the Past</i> , 2017, 13, 1269-1284.	3.4	22

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55	Arctic Ocean benthic foraminifera Mg/Ca ratios and global Mg/Ca-temperature calibrations: New constraints at low temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 240-259.	3.9	22
56	Glacial geological implications of overconsolidated sediments on the Lomonosov Ridge and Yermak Plateau. <i>Quaternary Science Reviews</i> , 2010, 29, 3532-3544.	3.0	20
57	Overestimating climate warmingâ€­induced methane gas escape from the seafloor by neglecting multiphase flow dynamics. <i>Geophysical Research Letters</i> , 2016, 43, 8703-8712.	4.0	20
58	Improved delivery of biocontrol <i>Pseudomonas</i> and their antifungal metabolites using alginate polymers. <i>Applied Microbiology and Biotechnology</i> , 1996, 44, 740-745.	3.6	20
59	Modeling fracture propagation and seafloor gas release during seafloor warmingâ€­induced hydrate dissociation. <i>Geophysical Research Letters</i> , 2017, 44, 8510-8519.	4.0	19
60	Late Pleistocene Chronology of Sediments From the Yermak Plateau and Uncertainty in Dating Based on Geomagnetic Excursions. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3289-3310.	2.5	18
61	Orbital scale variations and timescales from the Arctic Ocean. <i>Paleoceanography</i> , 2008, 23, .	3.0	16
62	Interglacial Paleoclimate in the Arctic. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1959-1979.	2.9	16
63	Potential links between Baltic Sea submarine terraces and groundwater seeping. <i>Earth Surface Dynamics</i> , 2020, 8, 1-15.	2.4	16
64	Middle to late Quaternary grain size variations and sea-ice rafting on the Lomonosov Ridge. <i>Polar Research</i> , 2014, 33, 23672.	1.6	15
65	Regional deglaciation and postglacial lake development as reflected in a 74Â­m sedimentary record from Lake VÃttern, southern Sweden. <i>Gff</i> , 2016, 138, 336-354.	1.2	15
66	Future Projections of Petermann Glacier Under Ocean Warming Depend Strongly on Friction Law. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005921.	2.8	15
67	Arctic in Rapid Transition: Priorities for the future of marine and coastal research in the Arctic. <i>Polar Science</i> , 2016, 10, 364-373.	1.2	14
68	A North Pole thermal anomaly? Evidence from new and existing heat flow measurements from the central Arctic Ocean. <i>Journal of Geodynamics</i> , 2018, 118, 166-181.	1.6	13
69	A chronology of environmental changes in the Lake VÃttern basin from deglaciation to its final isolation. <i>Boreas</i> , 2018, 47, 609-624.	2.4	12
70	Stratigraphic Occurrences of Sub-Polar Planktic Foraminifera in Pleistocene Sediments on the Lomonosov Ridge, Arctic Ocean. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	12
71	Modern and early Holocene ice shelf sediment facies from Petermann Fjord and northern Nares Strait, northwest Greenland. <i>Quaternary Science Reviews</i> , 2022, 283, 107460.	3.0	12
72	Towards ground truthing exploration in the central Arctic Ocean: a Cenozoic compaction history from the Lomonosov Ridge. <i>Basin Research</i> , 2010, 22, 215-235.	2.7	11

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73	Conductive heat flow and nonlinear geothermal gradients in marine sediments—observations from Ocean Drilling Program boreholes. <i>Geo-Marine Letters</i> , 2016, 36, 25-33.	1.1	11
74	Calcareous nannofossils anchor chronologies for Arctic Ocean sediments back to 500 ka. <i>Geology</i> , 2020, 48, 1115-1119.	4.4	11
75	The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. <i>Cryosphere</i> , 2021, 15, 4073-4097.	3.9	11
76	Amino acid racemization in Quaternary foraminifera from the Yermak Plateau, Arctic Ocean. <i>Geochronology</i> , 2019, 1, 53-67.	2.5	11
77	Empirical relationship between strength and geophysical properties for weakly cemented formations. <i>Journal of Petroleum Science and Engineering</i> , 2010, 72, 134-142.	4.2	10
78	Late Cenozoic Paleoceanography of the Central Arctic Ocean. <i>IOP Conference Series: Earth and Environmental Science</i> , 2011, 14, 012002.	0.3	10
79	Can anaerobic oxidation of methane prevent seafloor gas escape in a warming climate?. <i>Solid Earth</i> , 2019, 10, 1541-1554.	2.8	10
80	Late Quaternary sedimentary processes in the central Arctic Ocean inferred from geophysical mapping. <i>Geomorphology</i> , 2020, 369, 107309.	2.6	10
81	A new 30,000-year chronology for rapidly deposited sediments on the Lomonosov Ridge using bulk radiocarbon dating and probabilistic stratigraphic alignment. <i>Geochronology</i> , 2020, 2, 81-91.	2.5	10
82	New constraints on Arctic Ocean Mn stratigraphy from radiocarbon dating on planktonic foraminifera. <i>Quaternary International</i> , 2017, 447, 13-26.	1.5	9
83	Deciphering ~45,000 years of Arctic Ocean lithostratigraphic variability through multivariate statistical analysis. <i>Quaternary International</i> , 2019, 514, 141-151.	1.5	9
84	Data report: regional stratigraphic correlation and a revised composite depth scale for IODP Expedition 302. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	9
85	Geotechnical and sedimentary evidence for thick-grounded ice in southern Lake Vättern during deglaciation. <i>Gff</i> , 2016, 138, 355-366.	1.2	8
86	Early Holocene sea level in the Canadian Beaufort Sea constrained by radiocarbon dates from a deep borehole in the Mackenzie Trough, Arctic Canada. <i>Boreas</i> , 2018, 47, 1102-1117.	2.4	8
87	The Arctic Ocean Manganese Cycle, an Overlooked Mechanism in the Anomalous Palaeomagnetic Sedimentary Record. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	8
88	Central Arctic Ocean paleoceanography from ~50 ka to present, on the basis of ostracode faunal assemblages from the SWERUS 2014 expedition. <i>Climate of the Past</i> , 2017, 13, 1473-1489.	3.4	7
89	Seafloor cratering and sediment remolding at sites of fluid escape. <i>Geology</i> , 2015, 43, 895-898.	4.4	6
90	Sedimentary proxies for Pacific water inflow through the Herald Canyon, western Arctic Ocean. <i>Arktos</i> , 2018, 4, 1-13.	1.0	6

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91	Benthic phosphorus cycling within the Eurasian marginal sea ice zone. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190358.	3.4	6
92	Optically stimulated luminescence dating supports pre-Eemian age for glacial ice on the Lomonosov Ridge off the East Siberian continental shelf. <i>Quaternary Science Reviews</i> , 2021, 267, 107082.	3.0	6
93	Compressibility, permeability, and stress history of sediments from Demerara Rise. , 0, , .		6
94	Testing the stratigraphic consistency of Pleistocene microfossil bioevents identified on the Alpha and Lomonosov Ridges, Arctic Ocean. <i>Arctic, Antarctic, and Alpine Research</i> , 2021, 53, 309-323.	1.1	6
95	Deep water methane hydrates in the Arctic Ocean: Reassessing the significance of a shallow BSR on the Lomonosov Ridge. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	5
96	Arctic Continental Margin Sediments as Possible Fe and Mn Sources to Seawater as Sea Ice Retreats: Insights From the Eurasian Margin. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006581.	4.9	5
97	The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	4
98	Holocene sea-ice dynamics in Petermann Fjord in relation to ice tongue stability and Nares Strait ice arch formation. <i>Cryosphere</i> , 2021, 15, 4357-4380.	3.9	4
99	Late Holocene Paleomagnetic Secular Variation in the Chukchi Sea, Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	4
100	Deep iceberg ploughmarks in the central Arctic Ocean. <i>Geological Society Memoir</i> , 2016, 46, 287-288.	1.7	3
101	Seafloor terraces and semi-circular depressions related to fluid discharge in Stockholm Archipelago, Baltic Sea. <i>Geological Society Memoir</i> , 2016, 46, 305-306.	1.7	2
102	Postglacial tectonic structures and mass wasting in Lake Vättern, southern Sweden. <i>Geological Society Memoir</i> , 2016, 46, 119-120.	1.7	2
103	Pockmarks on the Mendeleev Rise, central Arctic Ocean. <i>Geological Society Memoir</i> , 2016, 46, 297-298.	1.7	1
104	Geothermal evidence for groundwater flow through Quaternary sediments overlying bedrock aquifers below Lake Vättern, Sweden. <i>Gff</i> , 2019, 141, 106-120.	1.2	1
105	The Arctic Coring Expedition (ACEX) Recovers a Cenozoic History of the Arctic Ocean. <i>Oceanography</i> , 2006, 19, 162-167.	1.0	1
106	Acoustic Compressional Wave Velocity as a Predictor of Glacio-marine Sediment Grain Size. <i>Geotechnical Testing Journal</i> , 2007, 30, 267-273.	1.0	1
107	The First International Conference on "Processes and Palaeo-Environmental Changes in the Arctic: From Past to Present" (PalaeoArc). <i>Geologos</i> , 2019, 25, 175-179.	0.6	1
108	Data report: log-adjusted depth scales for Cretaceous black shale deposits from Demerara Rise. , 0, , .		0