

# Matt O'Regan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5289485/publications.pdf>

Version: 2024-02-01

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	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
2	Late Holocene Paleomagnetic Secular Variation in the Chukchi Sea, Arctic Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	4
3	The climate sensitivity of northern Greenland fjords is amplified through sea-ice damming. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	4
4	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
5	The Holocene dynamics of Ryder Glacier and ice tongue in north Greenland. <i>Cryosphere</i> , 2021, 15, 4073-4097.	3.9	11
6	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
7	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
8	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
9	Potential links between Baltic Sea submarine terraces and groundwater seeping. <i>Earth Surface Dynamics</i> , 2020, 8, 1-15.	2.4	16
10	Remobilization of dormant carbon from Siberian-Arctic permafrost during three past warming events. <i>Science Advances</i> , 2020, 6, .	10.3	37
11	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
12	Calcareous nannofossils anchor chronologies for Arctic Ocean sediments back to 500 ka. <i>Geology</i> , 2020, 48, 1115-1119.	4.4	11
13	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
14	Ryder Glacier in northwest Greenland is shielded from warm Atlantic water by a bathymetric sill. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	28
15	Late Quaternary sedimentary processes in the central Arctic Ocean inferred from geophysical mapping. <i>Geomorphology</i> , 2020, 369, 107309.	2.6	10
16	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
17	Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. <i>Environmental Research Letters</i> , 2020, 15, 124075.	5.2	34
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Interglacial Paleoclimate in the Arctic. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1959-1979.	2.9	16
21	Arctic closure as a trigger for Atlantic overturning at the Eocene-Oligocene Transition. <i>Nature Communications</i> , 2019, 10, 3797.	12.8	49
22	Bathymetric properties of the Baltic Sea. <i>Ocean Science</i> , 2019, 15, 905-924.	3.4	28
23	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
24	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
25	Can anaerobic oxidation of methane prevent seafloor gas escape in a warming climate?. <i>Solid Earth</i> , 2019, 10, 1541-1554.	2.8	10
26	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
27	Deciphering ~45,000 years of Arctic Ocean lithostratigraphic variability through multivariate statistical analysis. <i>Quaternary International</i> , 2019, 514, 141-151.	1.5	9
28	Amino acid racemization in Quaternary foraminifera from the Yermak Plateau, Arctic Ocean. <i>Geochronology</i> , 2019, 1, 53-67.	2.5	11
29	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
30	Export of nutrient rich Northern Component Water preceded early Oligocene Antarctic glaciation. <i>Nature Geoscience</i> , 2018, 11, 190-196.	12.9	67
31	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
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	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
34	A chronology of environmental changes in the Lake Vättern basin from deglaciation to its final isolation. <i>Boreas</i> , 2018, 47, 609-624.	2.4	12
35	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
36	Sedimentary proxies for Pacific water inflow through the Herald Canyon, western Arctic Ocean. <i>Arktos</i> , 2018, 4, 1-13.	1.0	6

#	ARTICLE	IF	CITATIONS
37	New constraints on Arctic Ocean Mn stratigraphy from radiocarbon dating on planktonic foraminifera. <i>Quaternary International</i> , 2017, 447, 13-26.	1.5	9
38	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
39	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
40	Modeling fracture propagation and seafloor gas release during seafloor warming-induced hydrate dissociation. <i>Geophysical Research Letters</i> , 2017, 44, 8510-8519.	4.0	19
41	Central Arctic Ocean paleoceanography from 14 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
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	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
44	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
45	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
46	Post-glacial flooding of the Bering Land Bridge dated to 11 cal ka BP based on new geophysical and sediment records. <i>Climate of the Past</i> , 2017, 13, 991-1005.	3.4	85
47	Shelf-Basin interaction along the East Siberian Sea. <i>Ocean Science</i> , 2017, 13, 349-363.	3.4	34
48	Dynamic simulations of potential methane release from East Siberian continental slope sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 872-886.	2.5	30
49	Evidence for an ice shelf covering the central Arctic Ocean during the penultimate glaciation. <i>Nature Communications</i> , 2016, 7, 10365.	12.8	133
50	Pockmarks on the Mendeleev Rise, central Arctic Ocean. <i>Geological Society Memoir</i> , 2016, 46, 297-298.	1.7	1
51	Deep iceberg ploughmarks in the central Arctic Ocean. <i>Geological Society Memoir</i> , 2016, 46, 287-288.	1.7	3
52	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
53	Postglacial tectonic structures and mass wasting in Lake Vättern, southern Sweden. <i>Geological Society Memoir</i> , 2016, 46, 119-120.	1.7	2
54	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

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Overestimating climate warming-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	Regional deglaciation and postglacial lake development as reflected in a 74Âm sedimentary record from Lake Vättern, southern Sweden. <i>Gff</i> , 2016, 138, 336-354.	1.2	15
59	Geotechnical and sedimentary evidence for thick-grounded ice in southern Lake Vättern during deglaciation. <i>Gff</i> , 2016, 138, 355-366.	1.2	8
60	Variability in transport of terrigenous material on the shelves and the deep Arctic Ocean during the Holocene. <i>Polar Research</i> , 2015, 34, 24964.	1.6	59
61	Multiple re-advances of a Lake Vättern outlet glacier during Fennoscandian Ice Sheet retreat, south-central Sweden. <i>Boreas</i> , 2015, 44, 619-637.	2.4	25
62	Erosion of organic carbon in the Arctic as a geological carbon dioxide sink. <i>Nature</i> , 2015, 524, 84-87.	27.8	141
63	Seafloor cratering and sediment remolding at sites of fluid escape. <i>Geology</i> , 2015, 43, 895-898.	4.4	6
64	Major earthquake at the Pleistocene-Holocene transition in Lake Vättern, southern Sweden. <i>Geology</i> , 2014, 42, 379-382.	4.4	46
65	Arctic Ocean Mn-stratigraphy: genesis, synthesis and inter-basin correlation. <i>Quaternary Science Reviews</i> , 2014, 92, 97-111.	3.0	64
66	Arctic Ocean glacial history. <i>Quaternary Science Reviews</i> , 2014, 92, 40-67.	3.0	184
67	An Arctic perspective on dating Mid-Late Pleistocene environmental history. <i>Quaternary Science Reviews</i> , 2014, 92, 9-31.	3.0	48
68	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
69	Planktonic foraminifera stable isotopes and water column structure: Disentangling ecological signals. <i>Marine Micropaleontology</i> , 2013, 101, 127-145.	1.2	111
70	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
71	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
72	Post-LGM deglaciation in Pine Island Bay, West Antarctica. <i>Quaternary Science Reviews</i> , 2012, 38, 11-26.	3.0	73

#	ARTICLE	IF	CITATIONS
73	Late Cenozoic Paleoceanography of the Central Arctic Ocean. IOP Conference Series: Earth and Environmental Science, 2011, 14, 012002.	0.3	10
74	Geological record of ice shelf break-up and grounding line retreat, Pine Island Bay, West Antarctica. Geology, 2011, 39, 691-694.	4.4	125
75	A Synthesis of the Long-Term Paleoclimatic Evolution of the Arctic. Oceanography, 2011, 24, 66-80.	1.0	26
76	Empirical relationship between strength and geophysical properties for weakly cemented formations. Journal of Petroleum Science and Engineering, 2010, 72, 134-142.	4.2	10
77	Towards ground truthing exploration in the central Arctic Ocean: a Cenozoic compaction history from the Lomonosov Ridge. Basin Research, 2010, 22, 215-235.	2.7	11
78	Deep water methane hydrates in the Arctic Ocean: Reassessing the significance of a shallow BSR on the Lomonosov Ridge. Journal of Geophysical Research, 2010, 115, .	3.3	5
79	Complex polarity pattern at the former Plio-“Pleistocene global stratotype section at Vrica (Italy): Remagnetization by magnetic iron sulphides. Earth and Planetary Science Letters, 2010, 292, 98-111.	4.4	55
80	Plio-Pleistocene trends in ice rafted debris on the Lomonosov Ridge. Quaternary International, 2010, 219, 168-176.	1.5	38
81	History of sea ice in the Arctic. Quaternary Science Reviews, 2010, 29, 1757-1778.	3.0	343
82	An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. Quaternary Science Reviews, 2010, 29, 3505-3517.	3.0	104
83	High-resolution geophysical observations of the Yermak Plateau and northern Svalbard margin: implications for ice-sheet grounding and deep-keeled icebergs. Quaternary Science Reviews, 2010, 29, 3518-3531.	3.0	57
84	Spatial and temporal Arctic Ocean depositional regimes: a key to the evolution of ice drift and current patterns. Quaternary Science Reviews, 2010, 29, 3644-3664.	3.0	37
85	Quaternary Arctic Ocean sea ice variations and radiocarbon reservoir age corrections. Quaternary Science Reviews, 2010, 29, 3430-3441.	3.0	79
86	Glacial geological implications of overconsolidated sediments on the Lomonosov Ridge and Yermak Plateau. Quaternary Science Reviews, 2010, 29, 3532-3544.	3.0	20
87	Age model and core-“seismic integration for the Cenozoic Arctic Coring Expedition sediments from the Lomonosov Ridge. Paleoceanography, 2008, 23, .	3.0	157
88	A 26 million year gap in the central Arctic record at the greenhouse-“icehouse transition: Looking for clues. Paleoceanography, 2008, 23, .	3.0	65
89	Beryllium isotopes in central Arctic Ocean sediments over the past 12.3 million years: Stratigraphic and paleoclimatic implications. Paleoceanography, 2008, 23, .	3.0	71
90	Quaternary paleoceanography of the central Arctic based on Integrated Ocean Drilling Program Arctic Coring Expedition 302 foraminiferal assemblages. Paleoceanography, 2008, 23, .	3.0	58

#	ARTICLE	IF	CITATIONS
91	Orbital scale variations and timescales from the Arctic Ocean. <i>Paleoceanography</i> , 2008, 23, .	3.0	16
92	Constraints on the Pleistocene chronology of sediments from the Lomonosov Ridge. <i>Paleoceanography</i> , 2008, 23, .	3.0	80
93	Midâ€Cenozoic tectonic and paleoenvironmental setting of the central Arctic Ocean. <i>Paleoceanography</i> , 2008, 23, .	3.0	35
94	The early Miocene onset of a ventilated circulation regime in the Arctic Ocean. <i>Nature</i> , 2007, 447, 986-990.	27.8	208
95	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
96	Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006, 441, 610-613.	27.8	578
97	Episodic fresh surface waters in the Eocene Arctic Ocean. <i>Nature</i> , 2006, 441, 606-609.	27.8	284
98	The Cenozoic palaeoenvironment of the Arctic Ocean. <i>Nature</i> , 2006, 441, 601-605.	27.8	471
99	Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum. <i>Nature</i> , 2006, 442, 671-675.	27.8	410
100	The Arctic Coring Expedition (ACEX) Recovers a Cenozoic History of the Arctic Ocean. <i>Oceanography</i> , 2006, 19, 162-167.	1.0	1
101	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
102	Quantitative assessment of the tissue response to films of hyaluronan derivatives. <i>Biomaterials</i> , 1996, 17, 963-975.	11.4	69
103	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
104	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
105	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
106	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
107	Compressibility, permeability, and stress history of sediments from Demerara Rise. , 0, , .		6
108	Data report: log-adjusted depth scales for Cretaceous black shale deposits from Demerara Rise. , 0, , .		0