

Glenn A Milne

List of Publications by Year in descending order

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68
papers

6,499
citations

87888

38
h-index

98798

67
g-index

71
all docs

71
docs citations

71
times ranked

5412
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent mass balance of polar ice sheets inferred from patterns of global sea-level change. <i>Nature</i> , 2001, 409, 1026-1029.	27.8	479
2	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. <i>Nature Climate Change</i> , 2016, 6, 360-369.	18.8	442
3	Identifying the causes of sea-level change. <i>Nature Geoscience</i> , 2009, 2, 471-478.	12.9	429
4	On post-glacial sea level - II. Numerical formulation and comparative results on spherically symmetric models. <i>Geophysical Journal International</i> , 2005, 161, 679-706.	2.4	306
5	Modelling Holocene relative sea-level observations from the Caribbean and South America. <i>Quaternary Science Reviews</i> , 2005, 24, 1183-1202.	3.0	298
6	On post-glacial sea level: I. General theory. <i>Geophysical Journal International</i> , 2003, 154, 253-267.	2.4	292
7	Postglacial sea-level change on a rotating Earth. <i>Geophysical Journal International</i> , 1998, 133, 1-19.	2.4	288
8	Searching for eustasy in deglacial sea-level histories. <i>Quaternary Science Reviews</i> , 2008, 27, 2292-2302.	3.0	227
9	A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. <i>Geophysical Journal International</i> , 2012, 190, 1464-1482.	2.4	227
10	The multimillennial sea-level commitment of global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13745-13750.	7.1	227
11	An improved glacial isostatic adjustment model for the British Isles. <i>Journal of Quaternary Science</i> , 2011, 26, 541-552.	2.1	190
12	Calibrating a glaciological model of the Greenland ice sheet from the Last Glacial Maximum to present-day using field observations of relative sea level and ice extent. <i>Quaternary Science Reviews</i> , 2009, 28, 1631-1657.	3.0	175
13	A model of Greenland ice sheet deglaciation constrained by observations of relative sea level and ice extent. <i>Quaternary Science Reviews</i> , 2014, 102, 54-84.	3.0	171
14	High Arctic Holocene temperature record from the Agassiz ice cap and Greenland ice sheet evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5952-5957.	7.1	163
15	Lower satellite-gravimetry estimates of Antarctic sea-level contribution. <i>Nature</i> , 2012, 491, 586-589.	27.8	159
16	Ice Sheet and Solid Earth Influences on Far-Field Sea-Level Histories. <i>Science</i> , 2005, 309, 925-928.	12.6	155
17	Barbados-based estimate of ice volume at Last Glacial Maximum affected by subducted plate. <i>Nature Geoscience</i> , 2013, 6, 553-557.	12.9	143
18	Postglacial relative sea-level observations from Ireland and their role in glacial rebound modelling. <i>Journal of Quaternary Science</i> , 2008, 23, 175-192.	2.1	110

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19	Final Laurentide ice-sheet deglaciation and Holocene climate-sea level change. <i>Quaternary Science Reviews</i> , 2016, 152, 49-59.	3.0	110
20	Recent results based on continuous GPS observations of the GIA process in Fennoscandia from BIFROST. <i>Journal of Geodynamics</i> , 2010, 50, 8-18.	1.6	108
21	Postglacial sea-level change on a rotating Earth: first results from a gravitationally self-consistent sea-level equation. <i>Geophysical Journal International</i> , 1996, 126, F13-F20.	2.4	107
22	Freshwater Outburst from Lake Superior as a Trigger for the Cold Event 9300 Years Ago. <i>Science</i> , 2010, 328, 1262-1266.	12.6	107
23	Continuous GPS measurements of postglacial adjustment in Fennoscandia: 2. Modeling results. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	99
24	Estimating past continental ice volume from sea-level data. <i>Quaternary Science Reviews</i> , 2002, 21, 361-376.	3.0	90
25	Glacial isostatic adjustment on a rotating earth. <i>Geophysical Journal International</i> , 2001, 147, 562-578.	2.4	88
26	Sea-level constraints on the amplitude and source distribution of Meltwater Pulse 1A. <i>Nature Geoscience</i> , 2016, 9, 130-134.	12.9	83
27	Glaciation-induced perturbations in the Earth's rotation: A new appraisal. <i>Journal of Geophysical Research</i> , 1998, 103, 985-1005.	3.3	75
28	Data-model comparison of Holocene sea-level change in the circum-Caribbean region. <i>Global and Planetary Change</i> , 2013, 107, 119-131.	3.5	67
29	Opening of glacial Lake Agassiz's eastern outlets by the start of the Younger Dryas cold period. <i>Geology</i> , 2018, 46, 155-158.	4.4	67
30	Final deglaciation of the Scandinavian Ice Sheet and implications for the Holocene global sea-level budget. <i>Earth and Planetary Science Letters</i> , 2016, 448, 34-41.	4.4	66
31	Modelling sea level data from China and Malay-Thailand to estimate Holocene ice-volume equivalent sea level change. <i>Quaternary Science Reviews</i> , 2016, 137, 54-68.	3.0	66
32	Understanding subsidence in the Mississippi Delta region due to sediment, ice, and ocean loading: Insights from geophysical modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3838-3856.	3.4	60
33	Late Holocene sea-level changes and isostatic crustal movements in Atlantic Canada. <i>Quaternary International</i> , 2004, 120, 79-89.	1.5	58
34	The contribution of glacial isostatic adjustment to projections of sea-level change along the Atlantic and Gulf coasts of North America. <i>Earth's Future</i> , 2016, 4, 440-464.	6.3	58
35	Ocean tides and Heinrich events. <i>Nature</i> , 2004, 432, 460-460.	27.8	57
36	On the factors behind large Labrador Sea tides during the last glacial cycle and the potential implications for Heinrich events. <i>Paleoceanography</i> , 2008, 23, .	3.0	56

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37	Late Weichselian relative sea-level changes and ice sheet history in southeast Greenland. <i>Earth and Planetary Science Letters</i> , 2008, 272, 8-18.	4.4	50
38	Impact of 3-D Earth structure on Fennoscandian glacial isostatic adjustment: Implications for space-geodetic estimates of present-day crustal deformations. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	41
39	New constraints on late Holocene eustatic sea-level changes from MahÃ©, Seychelles. <i>Quaternary Science Reviews</i> , 2015, 115, 1-16.	3.0	35
40	Did the last sea level lowstand always lead to cross-shelf valley formation and source-to-sink sediment flux?. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	33
41	Relative sea-level change in Greenland during the last 700 yrs and ice sheet response to the Little Ice Age. <i>Earth and Planetary Science Letters</i> , 2012, 315-316, 76-85.	4.4	30
42	Glacial isostatic adjustment as a control on coastal processes: An example from the Siberian Arctic. <i>Geology</i> , 2007, 35, 747.	4.4	29
43	Relative sea level change in west Greenland during the last millennium. <i>Quaternary Science Reviews</i> , 2010, 29, 367-383.	3.0	26
44	Ecosystem Resilience and Threshold Response in the GalÃ¡pagos Coastal Zone. <i>PLoS ONE</i> , 2011, 6, e22376.	2.5	26
45	Revised estimates of Greenland ice sheet thinning histories based on ice-core records. <i>Quaternary Science Reviews</i> , 2013, 63, 73-82.	3.0	25
46	The influence of lateral Earth structure on glacial isostatic adjustment in Greenland. <i>Geophysical Journal International</i> , 2018, 214, 1252-1266.	2.4	24
47	Development of anchialine cave habitats and karst subterranean estuaries since the last ice age. <i>Scientific Reports</i> , 2019, 9, 11907.	3.3	23
48	The influence of time-dependent ocean-continent geometry on predictions of post-glacial sea level change in Australia and New Zealand. <i>Geophysical Research Letters</i> , 1998, 25, 793-796.	4.0	22
49	The influence of decadal- to millennial-scale ice mass changes on present-day vertical land motion in Greenland: Implications for the interpretation of GPS observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
50	Glacial isostatic adjustment along the Pacific coast of central North America. <i>Quaternary Science Reviews</i> , 2018, 193, 288-311.	3.0	22
51	Uncertainties in elevation changes and their impact on Antarctic temperature records since the end of the last glacial period. <i>Earth and Planetary Science Letters</i> , 2012, 315-316, 12-23.	4.4	21
52	BIFROST project: 3-D crustal deformation rates derived from GPS confirm postglacial rebound in Fennoscandia. <i>Earth, Planets and Space</i> , 2001, 53, 703-708.	2.5	20
53	Using relative sea-level data to constrain the deglacial and Holocene history of southern Greenland. <i>Quaternary Science Reviews</i> , 2014, 92, 345-356.	3.0	19
54	The sensitivity of glacial isostatic adjustment predictions to a low-viscosity layer at the base of the upper mantle. <i>Earth and Planetary Science Letters</i> , 1998, 154, 265-278.	4.4	16

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55	Early Holocene Greenland-ice mass loss likely triggered earthquakes and tsunamis. <i>Earth and Planetary Science Letters</i> , 2020, 546, 116443.	4.4	15
56	The age of the opening of the Ice-Free Corridor and implications for the peopling of the Americas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118558119.	7.1	13
57	Late Quaternary evolution and sea-level history of a glaciated marine embayment, Bantry Bay, SW Ireland. <i>Marine Geology</i> , 2015, 369, 251-272.	2.1	11
58	Upper mantle viscosity from continuous GPS baselines in Fennoscandia. <i>Journal of Geodynamics</i> , 2005, 39, 91-109.	1.6	10
59	Isolation basin records of late Quaternary sea-level change, central mainland British Columbia, Canada. <i>Quaternary International</i> , 2013, 310, 181-198.	1.5	10
60	The influence of viscosity structure in the lithosphere on predictions from models of glacial isostatic adjustment. <i>Journal of Geodynamics</i> , 2015, 86, 1-9.	1.6	9
61	Glacial isostatic adjustment of the Pacific Coast of North America: the influence of lateral Earth structure. <i>Geophysical Journal International</i> , 2021, 226, 91-113.	2.4	7
62	Angular variation of the magnetic properties and reversal mode of aligned single-domain iron nanoparticles. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	6
63	Revised chronology of northwest Laurentide ice-sheet deglaciation from ^{10}Be exposure ages on boulder erratics. <i>Quaternary Science Reviews</i> , 2022, 277, 107369.	3.0	6
64	PALeo constraints on SEA level rise (PALSEA): Ice-sheet and sea-level responses to past climate warming. <i>Quaternary Science Reviews</i> , 2019, 212, 28-32.	3.0	5
65	Recent advances in predicting glaciation-induced sea-level changes and their impact on model applications. <i>Geodynamic Series</i> , 2002, , 157-176.	0.1	4
66	Sensitivity of glacial isostatic adjustment to a partially molten layer at 410 km depth. <i>Geophysical Journal International</i> , 2019, 216, 1538-1548.	2.4	2
67	Modelling sea-level fingerprints of glaciated regions with low mantle viscosity. <i>Earth System Dynamics</i> , 2021, 12, 783-795.	7.1	1
68	Radiocarbon Dating of Basal Peats Supports Separation of Lake Superior from Lakes Michigan-Huron about 1250 years ago. <i>Earth and Planetary Science Letters</i> , 2013, 375, 319-325.	4.4	0