

# Glen M Macdonald

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

6,746  
citations

71061

41  
h-index

62565

80  
g-index

92  
all docs

92  
docs citations

92  
times ranked

7644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variations in the Pacific Decadal Oscillation over the past millennium. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	432
2	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. <i>Holocene</i> , 2014, 24, 1028-1042.	0.9	404
3	Rapid Early Development of Circumarctic Peatlands and Atmospheric CH <sub>4</sub> and CO <sub>2</sub> Variations. <i>Science</i> , 2006, 314, 285-288.	6.0	353
4	Holocene Treeline History and Climate Change Across Northern Eurasia. <i>Quaternary Research</i> , 2000, 53, 302-311.	1.0	342
5	Water, climate change, and sustainability in the southwest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21256-21262.	3.3	323
6	A 1,200-year perspective of 21st century drought in southwestern North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21283-21288.	3.3	318
7	Large stocks of peatland carbon and nitrogen are vulnerable to permafrost thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20438-20446.	3.3	307
8	Rapid response of treeline vegetation and lakes to past climate warming. <i>Nature</i> , 1993, 361, 243-246.	13.7	295
9	Recent global decline in endorheic basin water storages. <i>Nature Geoscience</i> , 2018, 11, 926-932.	5.4	282
10	The distribution of late-Quaternary woody taxa in northern Eurasia: evidence from a new macrofossil database. <i>Quaternary Science Reviews</i> , 2009, 28, 2445-2464.	1.4	196
11	U.S. Pacific coastal wetland resilience and vulnerability to sea-level rise. <i>Science Advances</i> , 2018, 4, eaao3270.	4.7	195
12	A high-resolution GIS-based inventory of the west Siberian peat carbon pool. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	162
13	Rising minimum daily flows in northern Eurasian rivers: A growing influence of groundwater in the high-latitude hydrologic cycle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	158
14	A first pan-Arctic assessment of the influence of glaciation, permafrost, topography and peatlands on northern hemisphere lake distribution. <i>Permafrost and Periglacial Processes</i> , 2007, 18, 201-208.	1.5	154
15	Influence of Changing Atmospheric Circulation on Precipitation δ <sup>18</sup> O-Temperature Relations in Canada during the Holocene. <i>Quaternary Research</i> , 1996, 46, 211-218.	1.0	138
16	Carbon accumulation in peatlands of West Siberia over the last 2000 years. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	113
17	Science's policy processes for transboundary water governance. <i>Ambio</i> , 2015, 44, 353-366.	2.8	106
18	Integrating the social, hydrological and ecological dimensions of freshwater health: The Freshwater Health Index. <i>Science of the Total Environment</i> , 2018, 627, 304-313.	3.9	96

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19	Carbon Isotope Composition of Lake Sediments in Relation to Lake Productivity and Radiocarbon Dating. <i>Quaternary Research</i> , 1992, 37, 333-345.	1.0	88
20	Distributions of Chironomidae (Insecta: Diptera) and Other Freshwater Midges with Respect to Treeline, Northwest Territories, Canada. <i>Arctic and Alpine Research</i> , 1995, 27, 258.	1.3	86
21	Dendroclimatic Reconstruction of Summer Temperatures in Northwestern Canada since A.D. 1638 Based on Age-Dependent Modeling. <i>Quaternary Research</i> , 1995, 44, 257-266.	1.0	82
22	TREE RING RECONSTRUCTIONS OF STREAMFLOW FOR THREE CANADIAN PRAIRIE RIVERS <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2003, 39, 703-716.	1.0	80
23	A Dendroclimatic Reconstruction of Annual Precipitation on the Western Canadian Prairies since A.D. 1505 from <i>Pinus flexilis</i> James. <i>Quaternary Research</i> , 1995, 44, 267-275.	1.0	71
24	Climatic and hydrologic variability during the past millennium in the eastern Rocky Mountains and northern Great Plains of western Canada. <i>Quaternary Research</i> , 2008, 70, 188-197.	1.0	70
25	The use and application of freshwater midges (Chironomidae: Insecta: Diptera) in geographical research. <i>Progress in Physical Geography</i> , 2003, 27, 378-422.	1.4	68
26	Paleolimnological Reconstruction of Holocene Climatic Trends from Two Boreal Treeline Lakes, Northwest Territories, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 82.	0.4	67
27	Severe and sustained drought in southern California and the West: Present conditions and insights from the past on causes and impacts. <i>Quaternary International</i> , 2007, 173-174, 87-100.	0.7	60
28	Vegetation Responses to 2012â€“2016 Drought in Northern and Southern California. <i>Geophysical Research Letters</i> , 2019, 46, 3810-3821.	1.5	60
29	Monitoring changes of NDVI in protected areas of southern California. <i>Ecological Indicators</i> , 2018, 88, 485-494.	2.6	59
30	Radiocarbon dated <i>Pinus sylvestris</i> L. wood from beyond tree-line on the Kola Peninsula, Russia. <i>Holocene</i> , 2000, 10, 143-147.	0.9	57
31	Potential influence of the Pacific Ocean on the Indian summer monsoon and Harappan decline. <i>Quaternary International</i> , 2011, 229, 140-148.	0.7	56
32	Rapid Holocene hydrologic change along boreal treeline revealed by $\delta^{13}C$ and $\delta^{18}O$ in organic lake sediments, Northwest Territories, Canada. <i>Journal of Paleolimnology</i> , 1996, 15, 171.	0.8	55
33	Paleolimnological Reconstruction of Holocene Climatic Trends from Two Boreal Treeline Lakes, Northwest Territories, Canada. <i>Arctic, Antarctic, and Alpine Research</i> , 1999, 31, 82-93.	0.4	55
34	Postglacial range expansion and population growth of <i>Picea mariana</i> , <i>Picea glauca</i> and <i>Pinus banksiana</i> in the western interior of Canada. <i>Journal of Biogeography</i> , 2003, 24, 865-881.	1.4	54
35	Holocene Paleohydrology and Paleoclimate at Treeline, North-Central Russia, Inferred from Oxygen Isotope Records in Lake Sediment Cellulose. <i>Quaternary Research</i> , 2000, 53, 319-329.	1.0	53
36	<i>Pinus sylvestris</i> treeline development and movement on the Kola Peninsula of Russia: pollen and stomate evidence. <i>Journal of Ecology</i> , 2002, 90, 627-638.	1.9	53

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37	Evidence of temperature depression and hydrological variations in the eastern Sierra Nevada during the Younger Dryas Stade. <i>Quaternary Research</i> , 2008, 70, 131-140.	1.0	49
38	The Tree-Ring Record of Drought on the Canadian Prairies <sup>a,b</sup> . <i>Journal of Climate</i> , 2009, 22, 689-710.	1.2	47
39	Evidence for elevated emissions from high-latitude wetlands contributing to high atmospheric CH <sub>4</sub> concentration in the early Holocene. <i>Global Biogeochemical Cycles</i> , 2013, 27, 131-140.	1.9	45
40	Summary for Decision Makers. , 2013, , 1-20.		43
41	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 355-375.	0.8	42
42	Holocene lake sediment records of Arctic hydrology. <i>Journal of Paleolimnology</i> , 2000, 24, 1-13.	0.8	41
43	Late-Quaternary summer temperature changes in the northern-European tree-line region. <i>Quaternary Research</i> , 2008, 69, 404-412.	1.0	40
44	A late Quaternary chironomid-inferred temperature record from the Sierra Nevada, California, with connections to northeast Pacific sea surface temperatures. <i>Quaternary Research</i> , 2006, 66, 356-363.	1.0	39
45	Quantitative reconstruction of Holocene climate from the Chuna Lake pollen record, Kola Peninsula, northwest Russia. <i>Holocene</i> , 2005, 15, 141-148.	0.9	36
46	Prolonged California aridity linked to climate warming and Pacific sea surface temperature. <i>Scientific Reports</i> , 2016, 6, 33325.	1.6	36
47	The Impact of Drought on Native Southern California Vegetation: Remote Sensing Analysis Using MODIS-derived Time Series. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1927-1939.	1.3	36
48	Climate Warming and 21st-Century Drought in Southwestern North America. <i>Eos</i> , 2008, 89, 82-82.	0.1	34
49	Paleolimnological evidence of the response of the central Canadian treeline zone to radiative forcing and hemispheric patterns of temperature change over the past 2000 years. <i>Journal of Paleolimnology</i> , 2009, 41, 129-141.	0.8	32
50	Southern California and the perfect drought: Simultaneous prolonged drought in southern California and the Sacramento and Colorado River systems. <i>Quaternary International</i> , 2008, 188, 11-23.	0.7	31
51	The season for large fires in Southern California is projected to lengthen in a changing climate. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	31
52	Modern Pollen and Conifer Stomates from North-central Siberian Lake Sediments: Their Use in Interpreting Late Quaternary Fossil Pollen Assemblages. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 19-27.	0.4	30
53	A comparison of radiocarbon ages derived from bulk peat and selected plant macrofossils in basal peat cores from circum-arctic peatlands. <i>Quaternary Geochronology</i> , 2016, 31, 53-61.	0.6	29
54	Localized Scenarios and Latitudinal Patterns of Vertical and Lateral Resilience of Tidal Marshes to Sea-Level Rise in the Contiguous United States. <i>Earth's Future</i> , 2021, 9, e2020EF001804.	2.4	28

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55	A 2000-year midge-based paleotemperature reconstruction from the Canadian Arctic archipelago. <i>Journal of Paleolimnology</i> , 2009, 41, 177-188.	0.8	26
56	Post-glacial vegetation reconstruction and a possible 8200 cal. yr BP event from the low arctic of continental Nunavut, Canada. <i>Journal of Quaternary Science</i> , 2003, 18, 621-629.	1.1	25
57	Marine Radiocarbon Reservoir Values in Southern California Estuaries: Interspecies, Latitudinal, and Interannual Variability. <i>Radiocarbon</i> , 2015, 57, 449-458.	0.8	25
58	Influence of permafrost on water storage in West Siberian peatlands revealed from a new database of soil properties. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 69-79.	1.5	24
59	Modern Pollen and Conifer Stomates from North-Central Siberian Lake Sediments: Their Use in Interpreting Late Quaternary Fossil Pollen Assemblages. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 19.	0.4	24
60	COMPARISON OF TREE SPECIES SENSITIVITY TO HIGH AND LOW EXTREME HYDROCLIMATIC EVENTS. <i>Physical Geography</i> , 2001, 22, 115-134.	0.6	23
61	Subfossil Chironomids As Indicators Of Recent Climate Change In Sierra Nevada, California, Lakes. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 286-296.	0.4	23
62	Holocene landscape development and climatic change in the low arctic, Northwest Territories, Canada. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 205, 221-234.	1.0	19
63	Some Holocene palaeoclimatic and palaeoenvironmental perspectives on Arctic/Subarctic climate warming and the IPCC 4th Assessment Report. <i>Journal of Quaternary Science</i> , 2010, 25, 39-47.	1.1	19
64	Peatland succession and long-term apparent carbon accumulation in central and northern Ontario, Canada. <i>Holocene</i> , 2014, 24, 1075-1089.	0.9	19
65	Diatom Inferred Acidity History Of 32 Lakes On The Kola Peninsula, Russia. <i>Water, Air, and Soil Pollution</i> , 2003, 149, 339-361.	1.1	18
66	Temperature, oxygen, and vegetation controls on decomposition in a James Bay peatland. <i>Global Biogeochemical Cycles</i> , 2015, 29, 729-743.	1.9	18
67	Investigation of North American vegetation variability under recent climate: A study using the SSiB4/TRIFFID biophysical/dynamic vegetation model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1300-1321.	1.2	18
68	Recent and Multicentennial Precipitation Variability and Drought Occurrence in the Uinta Mountains Region, Utah. <i>Arctic, Antarctic, and Alpine Research</i> , 2007, 39, 549-555.	0.4	17
69	Evidence for orbital and North Atlantic climate forcing in alpine Southern California between 125 and 10 ka from multi-proxy analyses of Baldwin Lake. <i>Quaternary Science Reviews</i> , 2017, 167, 47-62.	1.4	17
70	Balanced Sediment Fluxes in Southern California's Mediterranean-Climate Zone Salt Marshes. <i>Estuaries and Coasts</i> , 2016, 39, 1035-1049.	1.0	16
71	Peatland Initiation, Carbon Accumulation, and 2 ka Depth in the James Bay Lowland and Adjacent Regions. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 19-39.	0.4	15
72	Little Ice Age climatic erraticism as an analogue for future enhanced hydroclimatic variability across the American Southwest. <i>PLoS ONE</i> , 2017, 12, e0186282.	1.1	15

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73	Quantifying Drought Sensitivity of Mediterranean Climate Vegetation to Recent Warming: A Case Study in Southern California. <i>Remote Sensing</i> , 2019, 11, 2902.	1.8	15
74	A 2000-yr reconstruction of air temperature in the Great Basin of the United States with specific reference to the Medieval Climatic Anomaly. <i>Quaternary Research</i> , 2014, 82, 309-317.	1.0	14
75	Boreal peatland water table depth and carbon accumulation during the Holocene thermal maximum, Roman Warm Period, and Medieval Climate Anomaly. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 444, 15-27.	1.0	13
76	Dendrochronological analysis of the response of tamarack ( <i>Larix laricina</i> ) to climate and larch sawfly ( <i>Pristiphora erichsonii</i> ) infestations in central Saskatchewan. <i>Ecoscience</i> , 2003, 10, 380-388.	0.6	12
77	A Dynamic History of Climate Change and Human Impact on the Environment from KeĀhā Pond, Maui, Hawaiian Islands. <i>Annals of the American Association of Geographers</i> , 2012, 102, 748-762.	3.0	12
78	Sea-level rise, habitat loss, and potential extirpation of a salt marsh specialist bird in urbanized landscapes. <i>Ecology and Evolution</i> , 2018, 8, 8115-8125.	0.8	10
79	Evidence of abrupt climate change at 9.3 ka and 8.2 ka in the central Canadian Arctic: Connection to the North Atlantic and Atlantic Meridional Overturning Circulation. <i>Quaternary Science Reviews</i> , 2019, 219, 204-217.	1.4	10
80	Long-term Relationships Between Ocean Variability and Water Resources in Northeastern Utah. <i>Journal of the American Water Resources Association</i> , 2010, 46, 987-1002.	1.0	8
81	Southern California Vegetation, Wildfire, and Erosion Had Nonlinear Responses to Climatic Forcing During Marine Isotope Stages 5-2 (120-15 ka). <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2019PA003628.	1.3	8
82	The Effects of Aridity on Conifer Radial Growth, Recruitment, and Mortality Patterns in The Eastern Sierra Nevada, California. <i>Arctic, Antarctic, and Alpine Research</i> , 2008, 40, 129-139.	0.4	7
83	Climate, Capital, Conflict: Geographies of Success or Failure in the Twenty-First Century. <i>Annals of the American Association of Geographers</i> , 2020, 110, 2011-2031.	1.5	7
84	Palynology of North American arctic lakes. , 2004, , 89-116.		7
85	Rising Tides: Assessing Habitat Vulnerability for an Endangered Salt Marsh-Dependent Species with Sea-Level Rise. <i>Wetlands</i> , 2019, 39, 1203-1218.	0.7	5
86	Multiple Stressors Influence Salt Marsh Recovery after a Spring Fire at Mugu Lagoon, CA. <i>Wetlands</i> , 2020, 40, 757-769.	0.7	5
87	The new nature: Limitations and prospects of the paleoenvironmental tradition in biogeography in the 21 <sup>st</sup> century. <i>Canadian Geographer / Geographie Canadien</i> , 2017, 61, 41-51.	1.0	3
88	West Coast vegetation shifts as a response to climate change over the past 130,000 years: geographic patterns and process from pollen data. <i>Physical Geography</i> , 2021, 42, 542-560.	0.6	3