

# Neal Michelutti

## List of Publications by Year in descending order

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73  
papers

3,435  
citations

172457

29  
h-index

144013

57  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate-driven regime shifts in the biological communities of arctic lakes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4397-4402.	7.1	828
2	Mountain lakes: Eyes on global environmental change. Global and Planetary Change, 2019, 178, 77-95.	3.5	185
3	Do spectrally inferred determinations of chlorophyll a reflect trends in lake trophic status?. Journal of Paleolimnology, 2010, 43, 205-217.	1.6	156
4	Recent primary production increases in arctic lakes. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	146
5	Experimental calibration of lake-sediment spectral reflectance to chlorophyll a concentrations: methodology and paleolimnological validation. Journal of Paleolimnology, 2006, 36, 91-100.	1.6	120
6	Seabird-driven shifts in Arctic pond ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 591-596.	2.6	102
7	Trophic position influences the efficacy of seabirds as metal biovectors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10543-10548.	7.1	98
8	Visible spectroscopy reliably tracks trends in paleo-production. Journal of Paleolimnology, 2016, 56, 253-265.	1.6	85
9	PERIPHYTIC DIATOM ASSEMBLAGES FROM ULTRA-OLIGOTROPHIC AND UV TRANSPARENT LAKES AND PONDS ON VICTORIA ISLAND AND COMPARISONS WITH OTHER DIATOM SURVEYS IN THE CANADIAN ARCTIC1. Journal of Phycology, 2003, 39, 465-480.	2.3	82
10	The browning and re-browning of lakes: Divergent lake-water organic carbon trends linked to acid deposition and climate change. Scientific Reports, 2019, 9, 16676.	3.3	81
11	A multi-proxy lacustrine record of Holocene climate change on northeastern Baffin Island, Arctic Canada. Quaternary Research, 2006, 65, 431-442.	1.7	79
12	Diatom response to recent climatic change in a high arctic lake (Char Lake, Cornwallis Island,) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 302	3.5	78
13	Recent changes in a remote Arctic lake are unique within the past 200,000 years. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18443-18446.	7.1	78
14	Climate Change Forces New Ecological States in Tropical Andean Lakes. PLoS ONE, 2015, 10, e0115338.	2.5	78
15	Biogenic silica concentration as a high-resolution, quantitative temperature proxy at Hallet Lake, south-central Alaska. Geophysical Research Letters, 2008, 35, .	4.0	69
16	Historical pesticide applications coincided with an altered diet of aerially foraging insectivorous chimney swifts. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3114-3120.	2.6	66
17	A 200-year perspective on alternative stable state theory and lake management from a biomanipulated shallow lake. Ecological Applications, 2012, 22, 1483-1496.	3.8	60
18	Ice-cover is the principal driver of ecological change in High Arctic lakes and ponds. PLoS ONE, 2017, 12, e0172989.	2.5	59

#	ARTICLE	IF	CITATIONS
19	Title is missing!. <i>Hydrobiologia</i> , 2002, 482, 1-13.	2.0	55
20	Climatically controlled chemical and biological development in Arctic lakes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	52
21	Cultural eutrophication, anoxia, and ecosystem recovery in Meretta Lake, High Arctic Canada. <i>Limnology and Oceanography</i> , 2011, 56, 639-650.	3.1	46
22	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2001, 125, 231-241.	2.4	42
23	Temporal trends of pollution Pb and other metals in east-central Baffin Island inferred from lake sediment geochemistry. <i>Science of the Total Environment</i> , 2009, 407, 5653-5662.	8.0	42
24	Limnological Characteristics of 38 Lakes and Pondson Axel Heiberg Island, High Arctic Canada. <i>International Review of Hydrobiology</i> , 2002, 87, 385.	0.9	41
25	Heightened sensitivity of a poorly buffered high arctic lake to late-Holocene climatic change. <i>Quaternary Research</i> , 2006, 65, 421-430.	1.7	35
26	Contrasting the effects of climatic, nutrient, and oxygen dynamics on subfossil chironomid assemblages: a paleolimnological experiment from eutrophic High Arctic ponds. <i>Journal of Paleolimnology</i> , 2013, 49, 205-219.	1.6	35
27	Climate-driven changes in lakes from the Peruvian Andes. <i>Journal of Paleolimnology</i> , 2015, 54, 153-160.	1.6	34
28	Delayed response of diatom assemblages to sewage inputs in an Arctic lake. <i>Aquatic Sciences</i> , 2007, 69, 523-533.	1.5	32
29	Arctic lake ontogeny across multiple interglaciations. <i>Quaternary Science Reviews</i> , 2012, 31, 112-126.	3.0	31
30	Evaluating diatom community composition in the absence of marked limnological gradients in the high Arctic: a surface sediment calibration set from Cornwallis Island (Nunavut, Canada). <i>Polar Biology</i> , 2007, 30, 1459-1473.	1.2	30
31	Inferring Past Trends in Lake Water Organic Carbon Concentrations in Northern Lakes Using Sediment Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13248-13255.	10.0	28
32	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 377-381.	1.6	26
33	Accelerated delivery of polychlorinated biphenyls (PCBs) in recent sediments near a large seabird colony in Arctic Canada. <i>Environmental Pollution</i> , 2009, 157, 2769-2775.	7.5	26
34	A Holocene Perspective on Algal Mercury Scavenging to Sediments of an Arctic Lake. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7135-7141.	10.0	24
35	Long-Term Changes in Terrestrial Vegetation Linked to Shifts in a Colonial Seabird Population. <i>Ecosystems</i> , 2020, 23, 1643-1656.	3.4	24
36	Comparing nitrogen isotopic signals between bulk sediments and invertebrate remains in High Arctic seabird-influenced ponds. <i>Journal of Paleolimnology</i> , 2010, 44, 405-412.	1.6	23

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37	Historical seabird population dynamics and their effects on Arctic pond ecosystems: a multi-proxy paleolimnological study from Cape Vera, Devon Island, Arctic Canada. <i>Fundamental and Applied Limnology</i> , 2011, 179, 51-66.	0.7	23
38	Long-term limnological changes in the Ecuadorian páramo: Comparing the ecological responses to climate warming of shallow waterbodies versus deep lakes. <i>Freshwater Biology</i> , 2018, 63, 1316-1325.	2.4	22
39	Chironomid assemblages from seabird-affected High Arctic ponds. <i>Polar Biology</i> , 2011, 34, 799-812.	1.2	19
40	Using paleolimnology to track the impacts of early Arctic peoples on freshwater ecosystems from southern Baffin Island, Nunavut. <i>Quaternary Science Reviews</i> , 2013, 76, 82-95.	3.0	19
41	Multicentury perspective assessing the sustainability of the historical harvest of seaducks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8425-8430.	7.1	19
42	Ecological characteristics of modern diatom assemblages from Axel Heiberg Island (High Arctic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 2006, 84, 1695-1713.	1.1	18
43	Using paleolimnology to track Holocene climate fluctuations and aquatic ontogeny in poorly buffered High Arctic lakes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 321-322, 1-15.	2.3	18
44	Comparison of Freshwater Diatom Assemblages from a High Arctic Oasis to Nearby Polar Desert Sites and Their Application to Environmental Inference Models. <i>Journal of Phycology</i> , 2013, 49, 41-53.	2.3	18
45	Annual stratification patterns in tropical mountain lakes reflect altered thermal regimes in response to climate change. <i>Fundamental and Applied Limnology</i> , 2018, 191, 267-275.	0.7	16
46	Striking centennial-scale changes in the population size of a threatened seabird. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192234.	2.6	16
47	Tracking the History and Ecological Changes of Rising Double-Crested Cormorant Populations Using Pond Sediments from Islands in Eastern Lake Ontario. <i>PLoS ONE</i> , 2015, 10, e0134167.	2.5	16
48	Determining diatom ecotones and their relationship to terrestrial ecoregion designations in the central Canadian Arctic Islands. <i>Journal of Phycology</i> , 2014, 50, 610-623.	2.3	15
49	Linking 19th century European settlement to the disruption of a seabird's natural population dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32484-32492.	7.1	13
50	Diatom Changes in Lake Sediments from the Mackenzie Delta, N.W.T., Canada: Paleohydrological Applications. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 1-12.	1.1	12
51	Diatom Changes in Lake Sediments from the Mackenzie Delta, N.W.T., Canada: Paleohydrological Applications. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 1.	1.1	12
52	Sterols and stanols as novel tracers of waterbird population dynamics in freshwater ponds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180631.	2.6	11
53	Reconstructing Long-Term Changes in Avian Populations Using Lake Sediments: Opening a Window Onto the Past. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	11
54	Breeding eider ducks strongly influence subarctic coastal pond chemistry. <i>Aquatic Sciences</i> , 2018, 80, 1.	1.5	10

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55	A limnological assessment of the diverse waterscape in the Cordillera Vilcanota, Peruvian Andes. <i>Inland Waters</i> , 2019, 9, 395-407.	2.2	8
56	Categorizing the influences of two large seabird colonies on island freshwater ecosystems in the Northwest Atlantic Ocean. <i>Hydrobiologia</i> , 2021, 848, 885-900.	2.0	8
57	Equatorial mountain lakes show extended periods of thermal stratification with climate warming. <i>Journal of Limnology</i> , 0, , .	1.1	7
58	Tracking pesticide use in the Saint Lawrence River and its ecological impacts during the World Exposition of 1967 in Montreal, Canada. <i>Science of the Total Environment</i> , 2016, 572, 498-507.	8.0	6
59	Using visible near-infrared reflectance spectroscopy (VNIRS) of lake sediments to estimate historical changes in cyanobacterial production: potential and challenges. <i>Journal of Paleolimnology</i> , 2020, 64, 335-345.	1.6	6
60	A pre-Inca pot from underwater ruins discovered in an Andean lake provides a sedimentary record of marked hydrological change. <i>Scientific Reports</i> , 2019, 9, 19193.	3.3	5
61	Contrasting the ecological effects of decreasing ice cover versus accelerated glacial melt on the High Arctic's largest lake. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201185.	2.6	5
62	Developing diatom-based inference models to assess lake ecosystem change along a gradient of metal smelting impacts: sudbury lakes revisited. <i>Journal of Phycology</i> , 2022, , .	2.3	5
63	Changes in cladoceran assemblages from tropical high mountain lakes during periods of recent climate change. <i>Journal of Plankton Research</i> , 0, , .	1.8	4
64	Climate oscillations drive millennial-scale changes in seabird colony size. <i>Global Change Biology</i> , 2022, 28, 4292-4307.	9.5	4
65	Assessing the effects of climate and volcanism on diatom and chironomid assemblages in an Andean lake near Quito, Ecuador. <i>Journal of Limnology</i> , 2015, , .	1.1	3
66	Freshwater diatom assemblages from seabird-inhabited ponds in Hudson Strait, sub-Arctic Canada. <i>Polar Biology</i> , 2019, 42, 1549-1560.	1.2	2
67	Differing limnological responses to late Holocene climate variability in the Cordillera Vilcanota, Peruvian Andes. <i>Journal of Paleolimnology</i> , 2020, 64, 121-135.	1.6	2
68	The response of diatom assemblages in a Jamaican coastal lagoon to hurricane and drought activity over the past millennium. <i>Holocene</i> , 2021, 31, 1359-1365.	1.7	2
69	Diatoms and other siliceous indicators track the ontogeny of a "bofedal" (wetland) ecosystem in the Peruvian Andes. <i>Botany</i> , 2021, 99, 491-505.	1.0	2
70	Pond sediments on nesting islands in eastern Lake Ontario provide insights into the population dynamics and impacts of waterbird colonies. <i>Journal of Great Lakes Research</i> , 2019, 45, 350-359.	1.9	1
71	Limnological Characteristics Reveal Metal Pollution Legacy in Lakes near Canada's Northernmost Mine, Little Cornwallis Island, Nunavut. <i>Arctic</i> , 2021, 74, 167-174.	0.4	1
72	Reply to formal comment on Griffiths et al. (2017) submitted by Gajewski (2020). <i>PLoS ONE</i> , 2021, 16, e0254481.	2.5	0

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73	Using stable water isotope composition ( $\delta^{18}\text{O}$ and $\delta^2\text{H}$ ) to track the interannual responses of Arctic and tropical Andean water bodies to rising air temperatures. Journal of Geophysical Research G: Biogeosciences, 0, , .	3.0	0