Mary E Edwards

List of Publications by Citations

83 papers	4,657 citations	32 h-index	67 g-index
87 ext. papers	5,583 ext. citations	6.7 avg, IF	5.02 L-index

#	Paper	IF	Citations
83	Climate change and Arctic ecosystems: 2. Modeling, paleodata-model comparisons, and future projections. *Journal of Geophysical Research*, **2003**, 108,		361
82	Fifty thousand years of Arctic vegetation and megafaunal diet. *Nature*, **2014**, 506, 47-51	50.4	351
81	Climate refugia: joint inference from fossil records, species distribution models and phylogeography. *New Phytologist*, **2014**, 204, 37-54	9.8	258
80	Thermokarst lakes as a source of atmospheric CH4 during the last deglaciation. *Science*, **2007**, 318, 633-6	33.3	245
79	Glacial survival of boreal trees in northern Scandinavia. *Science*, **2012**, 335, 1083-6	33.3	239
78	Climate change and Arctic ecosystems: 1. Vegetation changes north of 55°N between the last glacial maximum, mid-Holocene, and present. *Journal of Geophysical Research*, **2003**, 108,		220
77	Beringia as a glacial refugium for boreal trees and shrubs: new perspectives from mapped pollen data. *Journal of Biogeography*, **2005**, 32, 833-848	4.1	199
76	Past and future global transformation of terrestrial ecosystems under climate change. *Science*, **2018**, 361, 920-923	33.3	179
75	DNA from soil mirrors plant taxonomic and growth form diversity. *Molecular Ecology*, **2012**, 21, 3647-55	5.7	170
74	The distribution of late-Quaternary woody taxa in northern Eurasia: evidence from a new macrofossil database. *Quaternary Science Reviews*, **2009**, 28, 2445-2464	3.9	170
73	Pollen-based biomes for Beringia 18,000, 6000 and 0 14C yr bp. *Journal of Biogeography*, **2000**, 27, 521-554	4.4	132
72	Building the niche through time: using 13,000 years of data to predict the effects of climate change on three tree species in Europe. *Global Ecology and Biogeography*, **2013**, 22, 302-317	6.1	120
71	Vegetation of Eurasia from the last glacial maximum to present: Key biogeographic patterns. *Quaternary Science Reviews*, **2017**, 157, 80-97	3.9	109
70	Lake-Level Reconstruction and Paleohydrology of Birch Lake, Central Alaska, Based on Seismic Reflection Profiles and Core Transects. *Quaternary Research*, **2000**, 53, 154-166	1.9	102
69	STRUCTURALLY NOVEL BIOMES: A RESPONSE TO PAST WARMING IN BERINGIA. *Ecology*, **2005**, 86, 1696-1703	4.1	97
68	Potential analogues for paleoclimatic variations in eastern interior Alaska during the past 14,000yr: atmospheric-circulation controls of regional temperature and moisture responses. *Quaternary Science Reviews*, **2001**, 20, 189-202	3.9	96
67	Calibration of Radiocarbon Ages and the Interpretation of Paleoenvironmental Records. *Quaternary Research*, **1995**, 44, 417-424	1.9	75

66	Palaeoenvironmental Interpretation of Yedoma Silt (Ice Complex) Deposition as Cold-Climate Loess, Duvanny Yar, Northeast Siberia. *Permafrost and Periglacial Processes*, **2015**, 26, 208-288	4.2	73
65	A 14,000 yr paleoenvironmental record from Windmill Lake, Central Alaska: Lateglacial and Holocene vegetation in the Alaska range. *Quaternary Science Reviews*, **2001**, 20, 203-215	3.9	73
64	Geographic and temporal variations in fire history in boreal ecosystems of Alaska. *Journal of Geophysical Research*, **2003**, 108, FFR 8-1		72
63	Plant DNA metabarcoding of lake sediments: How does it represent the contemporary vegetation. *PLoS ONE*, **2018**, 13, e0195403	3.7	66
62	A framework for interpreting paleoclimatic variations in Eastern Beringia. *Quaternary International*, **1991**, 10-12, 73-83	2	62
61	Sedimentary ancient DNA from Lake Skartjørna, Svalbard: Assessing the resilience of arctic flora to Holocene climate change. *Holocene*, **2016**, 26, 627-642	2.6	61
60	Late Quaternary paleoclimate of western Alaska inferred from fossil chironomids and its relation to vegetation histories. *Quaternary Science Reviews*, **2009**, 28, 799-811	3.9	58
59	Arctic lakes show strong decadal trend in earlier spring ice-out. *Scientific Reports*, **2016**, 6, 38449	4.9	57
58	Lake sedimentary DNA accurately records 20 Century introductions of exotic conifers in Scotland. *New Phytologist*, **2017**, 213, 929-941	9.8	51
57	Stable Carbon Isotope Compositions of Eastern Beringian Grasses and Sedges: Investigating Their Potential as Paleoenvironmental Indicators. *Arctic, Antarctic, and Alpine Research*, **2007**, 39, 318-331	1.8	41
56	Palaeohydrology of the Southwest Yukon Territory, Canada, based on multiproxy analyses of lake sediment cores from a depth transect. *Holocene*, **2005**, 15, 1172-1183	2.6	39
55	Preliminary paleoenvironmental analysis of permafrost deposits at Batagaika megaslump, Yana Uplands, northeast Siberia. *Quaternary Research*, **2017**, 87, 314-330	1.9	38
54	A Tundra-Steppe Transition on Kathul Mountain, Alaska, U.S.A.. *Arctic and Alpine Research*, **1989**, 21, 296		36
53	Diatom-based Transfer Functions for Inferring past Climatic and Environmental Changes in Alaska, U.S.A.. *Arctic, Antarctic, and Alpine Research*, **1999**, 31, 353-365	1.8	33
52	A 40,000-yr record of environmental change from Burial Lake in Northwest Alaska. *Quaternary Research*, **2010**, 74, 156-165	1.9	32
51	Late Quaternary environmental and landscape dynamics revealed by a pingo sequence on the northern Seward Peninsula, Alaska. *Quaternary Science Reviews*, **2012**, 39, 26-44	3.9	31
50	Facies analysis of yedoma thermokarst lakes on the northern Seward Peninsula, Alaska. *Sedimentary Geology*, **2016**, 340, 25-37	2.8	30
49	A refined mapping of Arctic lakes using Landsat imagery. *International Journal of Remote Sensing*, **2015**, 36, 5970-5982	3.1	29

48	Old Crow Tephra Found at the Palisades of the Yukon, Alaska. *Quaternary Research*, **1991**, 35, 291-297	1.9	29
47	Interglacial Extension of the Boreal Forest Limit in the Noatak Valley, Northwest Alaska: Evidence from an Exhumed River-Cut Bluff and Debris Apron. *Arctic, Antarctic, and Alpine Research*, **2003**, 35, 460-468	1.8	28
46	A 31,000 year record of paleoenvironmental and lake-level change from Harding Lake, Alaska, USA. *Quaternary Science Reviews*, **2014**, 87, 98-113	3.9	27
45	Records of aquatic pollen and sediment properties as indicators of late-Quaternary Alaskan lake levels. *Journal of Paleolimnology*, **2000**, 24, 55-68	2.1	27
44	The evolution of a thermokarst-lake landscape: Late Quaternary permafrost degradation and stabilization in interior Alaska. *Sedimentary Geology*, **2016**, 340, 3-14	2.8	26
43	Ecology of a steppe-tundra gradient in interior Alaska. *Journal of Vegetation Science*, **1994**, 5, 897-912	3.1	25
42	Diatom-based Transfer Functions for Inferring past Climatic and Environmental Changes in Alaska, U.S.A.		25
41	Results and paleoclimate implications of 35 years of paleoecological research in Alaska. *Developments in Quaternary Sciences*, **2003**, 427-440	0.5	24
40	Evidence of Quaternary climatic variations in a sequence of loess and related deposits at Birch Creek, Alaska: implications for the Stage 5 climatic chronology. *Quaternary Science Reviews*, **2001**, 20, 63-76	3.9	24
39	Interglacial Deposits at Birch Creek, Northeast Interior Alaska. *Quaternary Research*, **1991**, 35, 41-52	1.9	23
38	Holocene floristic diversity and richness in northeast Norway revealed by sedimentary ancient DNA (sedaDNA) and pollen. *Boreas*, **2019**, 48, 299-316	2.4	23
37	Tree line identification from pollen data: beyond the limit?. *Journal of Biogeography*, **2011**, 38, 1792-1806	4.1	22
36	Conserving idealized landscapes: past history, public perception and future management in the New Forest (UK). *Vegetation History and Archaeobotany*, **2008**, 17, 551-562	2.6	22
35	The Arctic **1988**, 519-555		22
34	Persistence of arctic-alpine flora during 24,000 years of environmental change in the Polar Urals. *Scientific Reports*, **2019**, 9, 19613	4.9	22
33	Metabarcoding of modern soil DNA gives a highly local vegetation signal in Svalbard tundra. *Holocene*, **2018**, 28, 2006-2016	2.6	20
32	Long-term perspectives on terrestrial and aquatic carbon cycling from palaeolimnology. *Wiley Interdisciplinary Reviews: Water*, **2016**, 3, 211-234	5.7	19
31	Comment on "Glacial survival of boreal trees in northern Scandinavia". *Science*, **2012**, 338, 742; author reply 742	33.3	19

30	Last Glacial Maximum environmental conditions at Andøya, northern Norway; evidence for a northern ice-edge ecological hotspot. *Quaternary Science Reviews*, **2020**, 239, 106364	3.9	16
29	Constraints on post-glacial boreal tree expansion out of far-northern refugia. *Global Ecology and Biogeography*, **2014**, 23, 1198-1208	6.1	16
28	Topographic complexity and terrestrial biotic response to high-latitude climate change: Variance is as important as the mean **2007**, 105-121		16
27	Ancient environmental DNA reveals shifts in dominant mutualisms during the late Quaternary. *Nature Communications*, **2018**, 9, 139	17.4	14
26	Pollen size of Betula in northern Alaska and the interpretation of late Quaternary vegetation records. *Canadian Journal of Botany*, **1991**, 69, 1666-1672		14
25	Late Holocene environmental change and the anthropization of the highlands of Santo Antão Island, Cabo Verde. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2019**, 524, 101-117	2.9	13
24	Vegetation transitions drive the autotrophy–heterotrophy balance in Arctic lakes. *Limnology and Oceanography Letters*, **2018**, 3, 246-255	7.9	12
23	Early-Holocene warming in Beringia and its mediation by sea-level and vegetation changes. *Climate of the Past*, **2015**, 11, 1197-1222	3.9	12
22	Late Quaternary dynamics of Arctic biota from ancient environmental genomics. *Nature*, **2021**, 600, 86-92	50.4	12
21	A 24,000-year ancient DNA and pollen record from the Polar Urals reveals temporal dynamics of arctic and boreal plant communities. *Quaternary Science Reviews*, **2020**, 247, 106564	3.9	10
20	Holocene Thermokarst Lake Dynamics in Northern Interior Alaska: The Interplay of Climate, Fire, and Subsurface Hydrology. *Frontiers in Earth Science*, **2019**, 7,	3.5	9
19	Assembly of Alaska-Yukon boreal steppe communities: Testing biogeographic hypotheses via modern ecological distributions. *Journal of Systematics and Evolution*, **2018**, 56, 466-475	2.9	9
18	The maturing relationship between Quaternary paleoecology and ancient sedimentary DNA. *Quaternary Research*, **2020**, 96, 39-47	1.9	8
17	Using multiple palaeoecological indicators to guide biodiversity conservation in tropical dry islands: The case of São Nicolau, Cabo Verde. *Biological Conservation*, **2020**, 242, 108397	6.2	8
16	The dynamic past and future of arctic vascular plants: climate change, spatial variation and genetic diversity	133	152
15	Clitellate worms (Annelida) in lateglacial and Holocene sedimentary DNA records from the Polar Urals and northern Norway. *Boreas*, **2019**, 48, 317-329	2.4	7
14	Chronology and glass chemistry of tephra and cryptotephra horizons from lake sediments in northern Alaska, USA. *Quaternary Research*, **2017**, 88, 169-178	1.9	6
13	Tundra and boreal forest of interior Alaska during terminal MIS 6 and MIS 5e. *Vegetation History and Archaeobotany*, **2014**, 23, 177-193	2.6	5

12	Sedimentary ancient DNA shows terrestrial plant richness continuously increased over the Holocene in northern Fennoscandia. *Science Advances*, **2021**, 7,	14.3	5
11	Early-Holocene warming in Beringia and its mediation by sea-level and vegetation changes		4
10	Sedimentary ancient DNA shows terrestrial plant richness continuously increased over the Holocene in northern Fennoscandia		4
9	Anthropogenic transitions from forested to human-dominated landscapes in southern Macaronesia. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
8	Tracking late-Quaternary extinctions in interior Alaska using megaherbivore bone remains and dung fungal spores. *Quaternary Research*, **2020**, 97, 99-110	1.9	3
7	Evaluating consistency of stakeholder input into participatory GIS-based multiple criteria evaluation: a case study of ecotourism development in Kurdistan. *Journal of Environmental Planning and Management*, **2017**, 60, 1529-1553	2.8	3
6	Late Pleistocene shrub expansion preceded megafauna turnover and extinctions in eastern Beringia.. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
5	Effects of Holocene climate change, volcanism and mass migration on the ecosystem of a small, dry island (Brava, Cabo Verde). *Journal of Biogeography*, **2021**, 48, 1392-1405	4.1	2
4	Rapid climate changes during the Lateglacial and the early Holocene as seen from plant community dynamics in the Polar Urals, Russia. *Journal of Quaternary Science*,	2.3	2
3	Cover Image, Volume 3, Issue 2. *Wiley Interdisciplinary Reviews: Water*, **2016**, 3, i	5.7	1
2	Examining change in complex social-ecological systems using multiple long-term records: the New Forest a case study. *WIT Transactions on the Built Environment*, **2015**, 273-287	3	0
1	New vegetation maps, and much, much more. *Norsk Geografisk Tidsskrift*, **2000**, 54, 82-82	0.9	