Martin Melles

List of Publications by Year
in descending order

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110	4,628	109264	114418
papers	citations	35 h-index	63 g-index

112	112	112	4538
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climate and environmental history at Lake Levinsonâ€Łessing, Taymyr Peninsula, during the last 62 kyr. Journal of Quaternary Science, 2022, 37, 836-850.	1.1	4
2	A 62â€‰kyr geomagnetic palaeointensity record from the Taymyr Peninsula, Russian Arctic. Geochronology, 2022, 4, 87-107.	1.0	2
3	Quaternary environmental changes in central Chukotka (NE Russia) inferred from the Lake El'gygytgyn pollen records. Journal of Quaternary Science, 2022, 37, 915-927.	1.1	1
4	Larix species range dynamics in Siberia since the Last Glacial captured from sedimentary ancient DNA. Communications Biology, 2022, 5, .	2.0	10
5	Quaternary environmental and climatic history of the northern high latitudes â€“ recent contributions and perspectives from lake sediment records. Journal of Quaternary Science, 2022, 37, 721-728.	1.1	2
6	Lateglacial and Holocene environmental history of the central Kola region, northwestern Russia revealed by a sediment succession from Lake Imandra. Boreas, 2021, 50, 76-100.	1.2	7
7	Climatic and environmental changes in the Yana Highlands of northâ€eastern Siberia over the lastc. 57 000Âyears, derived from a sediment core from Lake Emanda. Boreas, 2021, 50, 114-133.	1.2	11
8	Chronological Assessment of the Balta Alba Kurgan Loess-Paleosol Section (Romania) â€“ A Comparative Study on Different Dating Methods for a Robust and Precise Age Model. Frontiers in Earth Science, 2021, 8, .	0.8	16
9	The first dated preglacial diatom record in Lake Ladoga: long-term marine influence or redeposition story?. Journal of Paleolimnology, 2021, 65, 85-99.	0.8	1
10	Organic matter mineralization in modern and ancient ferruginous sediments. Nature Communications, 2021, 12, 2216.	5.8	25
11	The Environment at Lake Elâ€™gygytgyn Area (Northeastern Russian Arctic) Prior to and After the Meteorite Impact at 3.58 Ma. Frontiers in Earth Science, 2021, 9, .	0.8	1
12	Mineral Magnetic Characterization of Highâ€Łatitude Sediments From Lake Levinsonâ€Łessing, Siberia. Geophysical Research Letters, 2021, 48, e2021GL093026.	1.5	6
13	Iron Mineralogy and Sediment Color in a 100Âm Drill Core From Lake Towuti, Indonesia Reflect Catchment and Diagenetic Conditions. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009582.	1.0	2
14	Increased petrogenic and biospheric organic carbon burial in subâ€Antarctic fjord sediments in response to recent glacier retreat. Limnology and Oceanography, 2021, 66, 4347-4362.	1.6	7
15	A 68â€¯ka precipitation record from the hyperarid core of the Atacama Desert in northern Chile. Global and Planetary Change, 2020, 184, 103054.	1.6	20
16	Millennial-scale vegetation history of the north-eastern Russian Arctic during the mid-Pliocene inferred from the Lake El'gygytgyn pollen record. Global and Planetary Change, 2020, 186, 103111.	1.6	4
17	Insights into the evolution of the young Lake Ohrid ecosystem and vegetation succession from a southern European refugium during the Early Pleistocene. Quaternary Science Reviews, 2020, 227, 106044.	1.4	24
18	The late quaternary tectonic, biogeochemical, and environmental evolution of ferruginous Lake Towuti, Indonesia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 556, 109905.	1.0	17

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19	Whitepaper: Earth â€“ Evolution at the dry limit. Global and Planetary Change, 2020, 193, 103275.	1.6	11
20	Lateglacial and Holocene palaeoenvironments on Bolshevik Island (Severnaya Zemlya), Russian High Arctic. Boreas, 2020, 49, 375-388.	1.2	3
21	Postglacial evolution of marine and lacustrine water bodies in Bunger Hills. Antarctic Science, 2020, 32, 107-129.	0.5	8
22	Modern sedimentation processes in Lake Towuti, Indonesia, revealed by the composition of surface sediments. Sedimentology, 2019, 66, 675-698.	1.6	25
23	Mediterranean winter rainfall in phase with African monsoons during theÂpast 1.36Âmillion years. Nature, 2019, 573, 256-260.	13.7	111
24	Vegetation and climate during the penultimate interglacial of the northeastern Russian Arctic: the Lake El'gygytgyn pollen record. Boreas, 2019, 48, 507-515.	1.2	7
25	Northern Eurasian lakes â€“ late Quaternary glaciation and climate history â€“ introduction. Boreas, 2019, 48, 269-272.	1.2	9
26	â€œClimatic fluctuations in the hyperarid core of the Atacama Desert during the past 215 kaâ€• Scientific Reports, 2019, 9, 5270.	1.6	55
27	Vegetation and climate changes in northwestern Russia during the Lateglacial and Holocene inferred from the Lake Ladoga pollen record. Boreas, 2019, 48, 349-360.	1.2	16
28	Environmental conditions in northwestern Russia duringMIS5 inferred from the pollen stratigraphy in a sediment core from Lake Ladoga. Boreas, 2019, 48, 377-386.	1.2	14
29	Deglaciation history of Lake Ladoga (northwestern Russia) based on varved sediments. Boreas, 2019, 48, 330-348.	1.2	27
30	Characterization of Iron in Lake Towuti sediment. Chemical Geology, 2019, 512, 11-30.	1.4	10
31	Middle to Late Pleistocene lakeâ€level fluctuations of Lake El'gygytgyn, farâ€east Russian Arctic. Boreas, 2019, 48, 516-533.	1.2	6
32	Holocene glacier fluctuations and environmental changes in subantarctic South Georgia inferred from a sediment record from a coastal inlet. Quaternary Research, 2019, 91, 132-148.	1.0	10
33	Climatic and tectonic controls on source-to-sink processes in the tropical, ultramafic catchment of Lake Towuti, Indonesia. Journal of Paleolimnology, 2019, 61, 279-295.	0.8	12
34	Processes influencing differences in Arctic and Antarctic trough mouth fan sedimentology. Geological Society Special Publication, 2019, 475, 203-221.	0.8	7
35	Was South Georgia covered by an ice cap during the Last Glacial Maximum?. Geological Society Special Publication, 2018, 461, 49-59.	0.8	7
36	Highâ€latitude vegetation and climate changes during the Midâ€Pleistocene Transition inferred from a palynological record from Lake El'gygytgyn, <scp>NE</scp> Russian Arctic. Boreas, 2018, 47, 137-149.	1.2	15

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37	Shallow hypersaline lakes as paleoclimate archives: A case study from the Laguna Salada, MÃ¡laga province, southern Spain. Quaternary International, 2018, 485, 76-88.	0.7	5
38	Holocene climatic and environmental evolution on the southwestern Iberian Peninsula: A high-resolution multi-proxy study from Lake Medina (CÃ¡diz, SW Spain). Quaternary Science Reviews, 2018, 198, 208-225.	1.4	26
39	Glacial legacies on interglacial vegetation at the Pliocene-Pleistocene transition in NE Asia. Nature Communications, 2016, 7, 11967.	5.8	81
40	Impact processes, permafrost dynamics, and climate and environmental variability in the terrestrial Arctic as inferred from the unique 3.6ÂMyr record of Lake El'gygytgyn, Far East Russia â€“ A review. Quaternary Science Reviews, 2016, 147, 221-244.	1.4	27
41	Millennial-scale vegetation changes in the north-eastern Russian Arctic during the Pliocene/Pleistocene transition (2.7â€“2.5ÂMa) inferred from the pollen record of Lake Elâ€™gygytgyn. Quaternary Science Reviews, 2016, 147, 245-258.	1.4	17
42	Demographic estimates of hunterâ€“gatherers during the Last Glacial Maximum in Europe against the background of palaeoenvironmental data. Quaternary International, 2016, 425, 49-61.	0.7	55
43	Unglaciated areas in East Antarctica during the Last Glacial (Marine Isotope Stage 3) â€“ New evidence from Rauer Group. Quaternary Science Reviews, 2016, 153, 1-10.	1.4	16
44	Depositional modes and lake-level variability at Lake Towuti, Indonesia, during the past ~29Âkyr BP. Journal of Paleolimnology, 2015, 54, 359-377.	0.8	28
45	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 1-9.	1.4	228
46	Glacial forcing of central Indonesian hydroclimate since 60,000 y B.P.. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5100-5105.	3.3	118
47	Reconstruction of changes in the Weddell Sea sector of the Antarctic Ice Sheet since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 111-136.	1.4	85
48	Pliocene Warmth, Polar Amplification, and Stepped Pleistocene Cooling Recorded in NE Arctic Russia. Science, 2013, 340, 1421-1427.	6.0	216
49	El'gygytgyn impact crater, Chukotka, Arctic Russia: Impact cratering aspects of the 2009 ICDP drilling project. Meteoritics and Planetary Science, 2013, 48, 1108-1129.	0.7	31
50	Lake Banyoles (northeastern Spain): A Last Glacial to Holocene multi-proxy study with regard to environmental variability and human occupation. Quaternary International, 2012, 274, 205-218.	0.7	38
51	Seasonal hydrochemical changes and spatial sedimentological variations in Lake Iznik (NW Turkey). Quaternary International, 2012, 274, 102-111.	0.7	22
52	Lithostratigraphic and geochronological framework for the paleoenvironmental reconstruction of the last â¼36ÂkaÂcalÂBP from a sediment record from Lake IznikÂ(NW Turkey). Quaternary International, 2012, 274, 73-87.	0.7	41
53	Marine geological constraints for the grounding-line position of the Antarctic Ice Sheet on the southern Weddell Sea shelf at the Last Glacial Maximum. Quaternary Science Reviews, 2012, 32, 25-47.	1.4	38
54	2.8 Million Years of Arctic Climate Change from Lake Elâ€™gygytgyn, NE Russia. Science, 2012, 337, 315-320.	6.0	383

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55	The Holocene environmental history of Lake Hoare, Taylor Valley, Antarctica, reconstructed from sediment cores. Antarctic Science, 2011, 23, 307-319.	0.5	6
56	Chironomids as indicators of the Holocene climatic and environmental history of two lakes in Northeast Greenland. Boreas, 2011, 40, 116-130.	1.2	30
57	Late Quaternary lake-level changes of Lake El'gygytgyn, NE Siberia. Quaternary Research, 2011, 76, 441-451.	1.0	32
58	Post-glacial regional climate variability along the East Antarctic coastal marginâ€"Evidence from shallow marine and coastal terrestrial records. Earth-Science Reviews, 2011, 104, 199-212.	4.0	67
59	Millennial-Scale Arctic Climate Change of the last 3.6 Million Years: Scientific Drilling at Lake El'gygytgyn, Northeast Russia. Oceanography, 2011, 24, 80-81.	0.5	2
60	Palaeoenvironmental implications derived from a piston core from east lobe Bonney, Taylor Valley, Antarctica. Antarctic Science, 2010, 22, 522-530.	0.5	5
61	No significant ice-sheet expansion beyond present ice margins during the past 4500 yr at Rauer Group, East Antarctica. Quaternary Research, 2010, 74, 23-25.	1.0	8
62	Late Quaternary environmental and climate history of Rauer Group, East Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 201-213.	1.0	30
63	A combined oxygen and silicon diatom isotope record of Late Quaternary change in Lake El'gygytgyn, North East Siberia. Quaternary Science Reviews, 2010, 29, 774-786.	1.4	66
64	Late Quaternary mass movement events in Lake Elâ€²gygytgyn, Northâ€eastern Siberia. Sedimentology, 2009, 56, 2155-2174.	1.6	41
65	Lake sediments from Store Koldewey, Northeast Greenland, as archive of Late Pleistocene and Holocene climatic and environmental changes. Boreas, 2009, 38, 59-71.	1.2	18
66	Short Note: New marine core record of Late Pleistocene glaciation history, Rauer Group, East Antarctica. Antarctic Science, 2009, 21, 299-300.	0.5	9
67	A multidisciplinary study of Holocene sediment records from Hjort SÃ¸ on Store Koldewey, Northeast Greenland. Journal of Paleolimnology, 2008, 39, 381-398.	0.8	28
68	Fourier transform infrared spectroscopy, a new cost-effective tool for quantitative analysis of biogeochemical properties in long sediment records. Journal of Paleolimnology, 2008, 40, 689-702.	0.8	78
69	Continuous and discrete on-site detection of radon-222 in ground- and surface waters by means of an extraction module. Applied Radiation and Isotopes, 2008, 66, 1939-1944.	0.7	52
70	Indications of Holocene sea-level rise in Beaver Lake, East Antarctica. Antarctic Science, 2007, 19, 125-128.	0.5	7
71	Applying SAR-IRSL methodology for dating fine-grained sediments from Lake Elâ€™gygytgyn, north-eastern Siberia. Quaternary Geochronology, 2007, 2, 187-194.	0.6	43
72	Glacial and postglacial sedimentation in the Fryxell basin, Taylor Valley, southern Victoria Land, Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 241, 320-337.	1.0	40

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73	Overview and significance of a 250Âka paleoclimate record from Elâ€™gygytgyn Crater Lake, NE Russia. Journal of Paleolimnology, 2006, 37, 1-16.	0.8	81
74	A revised age model for core PG1351 from Lake Elâ€™gygytgyn, Chukotka, based on magnetic susceptibility variations tuned to northern hemisphere insolation variations. Journal of Paleolimnology, 2006, 37, 65-76.	0.8	85
75	Luminescence geochronology for sediments from Lake Elâ€™gygytgyn, northeast Siberia, Russia: constraining the timing of paleoenvironmental events for the past 200Âka. Journal of Paleolimnology, 2006, 37, 77-88.	0.8	32
76	Sedimentary geochemistry of core PG1351 from Lake Elâ€™gygytgynâ€”a sensitive record of climate variability in the East Siberian Arctic during the past three glacialâ€“interglacial cycles. Journal of Paleolimnology, 2006, 37, 89-104.	0.8	122
77	Late Pleistocene and Holocene history of Lake Terrasovoje, Amery Oasis, East Antarctica, and its climatic and environmental implications. Journal of Paleolimnology, 2004, 32, 321-339.	0.8	60
78	The diatom flora and limnology of lakes in the Amery Oasis, East Antarctica. Polar Biology, 2004, 27, 513.	0.5	38
79	Luminescence chronology of non-glacial sediments in Changeable Lake, Russian High Arctic, and implications for limited Eurasian ice-sheet extent during the LGM. Journal of Quaternary Science, 2004, 19, 513-523.	1.1	29
80	The Holocene evolution and palaeosalinity history of Beall Lake, Windmill Islands (East Antarctica) using an expanded diatom-based weighted averaging model. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 208, 121-140.	1.0	27
81	Colonization, succession, and extinction of marine floras during a glacial cycle: A case study from the Windmill Islands (east Antarctica) using biomarkers. Paleoceanography, 2003, 18, n/a-n/a.	3.0	37
82	Palaeoclimatic significance of late Quaternary diatom assemblages from southern Windmill Islands, East Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 195, 261-280.	1.0	36
83	Non-glacial paleoenvironments and the extent of Weichselian ice sheets on Severnaya Zemlya, Russian High Arctic. Quaternary Science Reviews, 2003, 22, 2267-2283.	1.4	35
84	Late Pleistocene and Holocene vegetation and climate on the northern Taymyr Peninsula, Arctic Russia. Boreas, 2003, 32, 484-505.	1.2	24
85	Late Pleistocene and Holocene vegetation and climate on the northern Taymyr Peninsula, Arctic Russia. Boreas, 2003, 32, 484-505.	1.2	85
86	Late Quaternary environment of southern Windmill Islands, East Antarctica. Antarctic Science, 2002, 14, 385-394.	0.5	29
87	Late Pleistocene and Holocene Vegetation and Climate on the Taymyr Lowland, Northern Siberia. Quaternary Research, 2002, 57, 138-150.	1.0	107
88	Title is missing!. Journal of Paleolimnology, 2002, 28, 253-267.	0.8	31
89	Holocene climate changes reflected in a diatom succession from BasaltsÃ¸, East Greenland. Canadian Journal of Botany, 2001, 79, 649-656.	1.2	17
90	East Antarctic Climate and Environmental Variability over the Last 9400 Years Inferred from Marine Sediments of the Bunger Oasis. Arctic, Antarctic, and Alpine Research, 2001, 33, 223-230.	0.4	20

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91	Impact of early diagenesis and bulk particle grain size distribution on estimates of relative geomagnetic palaeointensity variations in sediments from Lama Lake, northern Central Siberia. Geophysical Journal International, 2001, 145, 300-306.	1.0	26
92	Title is missing!. Journal of Paleolimnology, 2001, 26, 67-87.	0.8	82
93	East Antarctic Climate and Environmental Variability over the Last 9400 Years Inferred from Marine Sediments of the Bunger Oasis. Arctic, Antarctic, and Alpine Research, 2001, 33, 223.	0.4	18
94	A rock magnetic record from Lama Lake, Taymyr Peninsula, northern Central Siberia. Journal of Paleolimnology, 2000, 23, 227-241.	0.8	13
95	Holocene climate history of Geographical Society Ã˜, East Greenland â€" evidence from lake sediments. Palaeogeography, Palaeoclimatology, Palaeoecology, 2000, 160, 45-68.	1.0	77
96	Lithological and biochemical properties in sediments of Lama Lake as indicators for the late Pleistocene and Holocene ecosystem development of the southern Taymyr Peninsula, Central Siberia. Boreas, 1999, 28, 167-180.	1.2	20
97	Maximum extent of the Eurasian ice sheets in the Barents and Kara Sea region during the Weichselian. Boreas, 1999, 28, 234-242.	1.2	322
98	Late Weichselian Glaciation of the Russian High Arctic. Quaternary Research, 1999, 52, 273-285.	1.0	92
99	Antarctic glacial history since the Last Glacial Maximum: an overview of the record on land. Antarctic Science, 1998, 10, 326-344.	0.5	206
100	Late- and post-glacial vegetation and climate history of the south-western Taymyr Peninsula, central Siberia, as revealed by pollen analysis of a core from Lake Lama. Vegetation History and Archaeobotany, 1997, 6, 1-8.	1.0	61
101	Glacial history of east Greenland explored. Eos, 1995, 76, 353-353.	0.1	10
102	Radiocarbon dating of lacustrine and marine sediments from the Bunger Hills, East Antarctica. Antarctic Science, 1994, 6, 375-378.	0.5	23
103	Sub-bottom profiling and sedimentological studies in the southern Weddell Sea, Antarctica: evidence for large-scale erosional/depositional processes. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 739-760.	0.6	38
104	Significance of clay mineral assemblages in the Antarctic Ocean. Marine Geology, 1992, 107, 249-273.	0.9	147
105	Modern sedimentation processes in Laguna de Medina, southern Spain, derived from lake surface sediment and catchment soil samples. Journal of Limnology, 0, , .	0.3	0
106	Sedimentation history of Lake Taymyr, Central Russian Arctic, since the Last Glacial Maximum. Journal of Quaternary Science, 0, , .	1.1	3
107	Highly variable sediment deposition in Lake Imandra, NW Russia, since the Late Pleistocene. Journal of Quaternary Science, 0, , .	1.1	1
108	The Towuti Drilling Project: paleoenvironments, biological evolution, and geomicrobiology of a tropical Pacific lake. Scientific Drilling, 0, 21, 29-40.	1.0	34

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109	Climate, glacial and vegetation history of the polar Ural Mountains since c . 27â€‰cal ka bp , inferred from a 54â€‰m long sediment core from Lake Bolshoye Shchuchye. Journal of Quaternary Science, 0, , .	1.1	5
110	Late Quaternary paleoenvironmental reconstructions from sediments of Lake Emanda (Verkhoyansk) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	3