

Atte A Korhola

List of Publications by Year in descending order

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88
papers

8,825
citations

47006

47
h-index

46799

89
g-index

89
all docs

89
docs citations

89
times ranked

9241
citing authors

#	ARTICLE	IF	CITATIONS
1	Continental-scale temperature variability during the past two millennia. <i>Nature Geoscience</i> , 2013, 6, 339-346.	12.9	954
2	Climate-driven regime shifts in the biological communities of arctic lakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4397-4402.	7.1	828
3	Terrestrial biogeochemical feedbacks in the climate system. <i>Nature Geoscience</i> , 2010, 3, 525-532.	12.9	486
4	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. <i>Holocene</i> , 2014, 24, 1028-1042.	1.7	404
5	Climate-related changes in peatland carbon accumulation during the last millennium. <i>Biogeosciences</i> , 2013, 10, 929-944.	3.3	257
6	Lake diatom response to recent Arctic warming in Finnish Lapland. <i>Global Change Biology</i> , 2002, 8, 171-181.	9.5	253
7	Looking forward through the past: identification of 50 priority research questions in palaeoecology. <i>Journal of Ecology</i> , 2014, 102, 256-267.	4.0	212
8	Title is missing!. <i>Journal of Paleolimnology</i> , 2000, 24, 43-54.	1.6	197
9	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. <i>Nature Climate Change</i> , 2018, 8, 907-913.	18.8	188
10	An expanded calibration model for inferring lakewater and air temperatures from fossil chironomid assemblages in northern Fennoscandia. <i>Holocene</i> , 1999, 9, 279-294.	1.7	184
11	A Quantitative Holocene Climatic Record from Diatoms in Northern Fennoscandia. <i>Quaternary Research</i> , 2000, 54, 284-294.	1.7	177
12	Global change revealed by palaeolimnological records from remote lakes: a review. <i>Journal of Paleolimnology</i> , 2013, 49, 513-535.	1.6	173
13	A new European testate amoebae transfer function for palaeohydrological reconstruction on ombrotrophic peatlands. <i>Journal of Quaternary Science</i> , 2007, 22, 209-221.	2.1	171
14	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 161-179.	1.6	169
15	Expert assessment of future vulnerability of the global peatland carbon sink. <i>Nature Climate Change</i> , 2021, 11, 70-77.	18.8	167
16	Paleolimnological evidence of the effects on lakes of energy and mass transfer from climate and humans. <i>Limnology and Oceanography</i> , 2009, 54, 2330-2348.	3.1	163
17	Holocene temperature changes in northern Fennoscandia reconstructed from chironomids using Bayesian modelling. <i>Quaternary Science Reviews</i> , 2002, 21, 1841-1860.	3.0	161
18	High-resolution reconstruction of wetness dynamics in a southern boreal raised bog, Finland, during the late Holocene: a quantitative approach. <i>Holocene</i> , 2007, 17, 1093-1107.	1.7	136

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19	Title is missing!. Journal of Paleolimnology, 2002, 28, 25-46.	1.6	135
20	The Relationship between Diatoms and Water Temperature in Thirty Subarctic Fennoscandian Lakes. Arctic and Alpine Research, 1997, 29, 75.	1.3	133
21	Widespread drying of European peatlands in recent centuries. Nature Geoscience, 2019, 12, 922-928.	12.9	130
22	Effects of Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 63-74.	5.5	123
23	Distribution patterns of Cladocera in subarctic Fennoscandian lakes and their potential in environmental reconstruction. Ecography, 1999, 22, 357-373.	4.5	115
24	Quantification of Holocene lake-level changes in Finnish Lapland using a cladocera " lake depth transfer model. Journal of Paleolimnology, 2005, 34, 175-190.	1.6	111
25	The importance of northern peatland expansion to the late-Holocene rise of atmospheric methane. Quaternary Science Reviews, 2010, 29, 611-617.	3.0	109
26	Past and Future Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 53-62.	5.5	105
27	Title is missing!. Journal of Paleolimnology, 1997, 18, 45-59.	1.6	100
28	Regionalisation of chemical variability in European mountain lakes. Freshwater Biology, 2009, 54, 2452-2469.	2.4	91
29	Sediment accumulation rates in European lakes since AD 1850: trends, reference conditions and exceedence. Journal of Paleolimnology, 2011, 45, 447-468.	1.6	91
30	The distribution and diversity of Chironomidae (Insecta: Diptera) in western Finnish Lapland, with special emphasis on shallow lakes. Global Ecology and Biogeography, 2005, 14, 137-153.	5.8	85
31	Long-term trends in eutrophication and nutrients in the coastal zone. Limnology and Oceanography, 2006, 51, 385-397.	3.1	85
32	Holocene climatic variations in southern Finland reconstructed from peat-initiation data. Holocene, 1995, 5, 43-57.	1.7	83
33	Serious mismatches continue between science and policy in forest bioenergy. GCB Bioenergy, 2019, 11, 1256-1263.	5.6	82
34	Postglacial spatiotemporal peatland initiation and lateral expansion dynamics in North America and northern Europe. Holocene, 2013, 23, 1596-1606.	1.7	76
35	Temperature patterns over the past eight centuries in Northern Fennoscandia inferred from sedimentary diatoms. Quaternary Research, 2006, 66, 78-86.	1.7	70
36	Title is missing!. Journal of Paleolimnology, 1998, 20, 205-215.	1.6	68

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37	The ecology of <i>Pediastrum</i> (Chlorophyceae) in subarctic lakes and their potential as paleobioindicators. <i>Journal of Paleolimnology</i> , 2010, 43, 61-73.	1.6	66
38	UV-induced pigmentation in subarctic <i>Daphnia</i> . <i>Limnology and Oceanography</i> , 2002, 47, 295-299.	3.1	65
39	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 59-77.	1.6	65
40	Radiocarbon Evidence for Rates of Lateral Expansion in Raised Mires in Southern Finland. <i>Quaternary Research</i> , 1994, 42, 299-307.	1.7	63
41	A Bayesian multinomial Gaussian response model for organism-based environmental reconstruction. <i>Journal of Paleolimnology</i> , 2000, 24, 243-250.	1.6	61
42	Effects of ultraviolet radiation and dissolved organic carbon on the survival of subarctic zooplankton. <i>Polar Biology</i> , 2002, 25, 460-468.	1.2	58
43	Reconstructing peatland water tables using transfer functions for plant macrofossils and testate amoebae: A methodological comparison. <i>Quaternary International</i> , 2012, 268, 34-43.	1.5	58
44	Neutral monosaccharides as biomarker proxies for bog-forming plants for application to palaeovegetation reconstruction in ombrotrophic peat deposits. <i>Organic Geochemistry</i> , 2008, 39, 1790-1799.	1.8	56
45	Arctic hydroclimate variability during the last 2000 years: current understanding and research challenges. <i>Climate of the Past</i> , 2018, 14, 473-514.	3.4	54
46	Seasonality of phytoplankton in subarctic Lake Saanajärvi in NW Finnish Lapland. <i>Polar Biology</i> , 2005, 28, 846-861.	1.2	52
47	Pairwise comparisons to reconstruct mean temperature in the Arctic Atlantic Region over the last 2,000 years. <i>Climate Dynamics</i> , 2013, 41, 2039-2060.	3.8	49
48	Climatic influence on peatland formation and lateral expansion in subarctic Fennoscandia. <i>Boreas</i> , 2010, 39, 761-769.	2.4	48
49	New evidence of warm early-Holocene summers in subarctic Finland based on an enhanced regional chironomid-based temperature calibration model. <i>Quaternary Research</i> , 2014, 81, 50-62.	1.7	48
50	Estimating Long-Term Carbon Accumulation Rates in Boreal Peatlands by Radiocarbon Dating. <i>Radiocarbon</i> , 1995, 37, 575-584.	1.8	47
51	Paleohydrology inferred from diatoms in northern latitude regions. <i>Journal of Paleolimnology</i> , 2000, 24, 93-107.	1.6	47
52	Acidification in European mountain lake districts: A regional assessment of critical load exceedance. <i>Aquatic Sciences</i> , 2005, 67, 237-251.	1.5	47
53	Tracing pollution and recovery using sediments in an urban estuary, northern Baltic Sea: are we far from ecological reference conditions?. <i>Marine Ecology - Progress Series</i> , 2005, 290, 35-53.	1.9	46
54	Quantitative Calibration of Remote Mountain-Lake Sediments as Climatic Recorders of Air Temperature and Ice-Cover Duration. <i>Arctic, Antarctic, and Alpine Research</i> , 2005, 37, 626-635.	1.1	43

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55	Holocene fen bog transitions, current status in Finland and future perspectives. <i>Holocene</i> , 2017, 27, 752-764.	1.7	42
56	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.	4.9	42
57	The early holocene hydrosere in a small acid hill-top basin studied using crustacean sedimentary remains. <i>Journal of Paleolimnology</i> , 1992, 7, 1.	1.6	41
58	Initiation of a sloping mire complex in southwestern Finland: Autogenic versus allogenic controls. <i>Ecoscience</i> , 1996, 3, 216-222.	1.4	40
59	Predicting the long-term acidification trends in small subarctic lakes using diatoms. <i>Journal of Applied Ecology</i> , 1999, 36, 1021-1034.	4.0	40
60	Arctic Freshwater Ice and Its Climatic Role. <i>Ambio</i> , 2011, 40, 46-52.	5.5	40
61	Quantifying Background Nutrient Concentrations in Coastal Waters: A Case Study from an Urban Embayment of the Baltic Sea. <i>Ambio</i> , 2004, 33, 324-327.	5.5	38
62	Increase in elemental carbon values between 1970 and 2004 observed in a 300-year ice core from Holtedahlfonna (Svalbard). <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11447-11460.	4.9	36
63	Spatial and Temporal Patterns in Black Carbon Deposition to Dated Fennoscandian Arctic Lake Sediments from 1830 to 2010. <i>Environmental Science & Technology</i> , 2015, 49, 13954-13963.	10.0	30
64	Vertical distribution of <i>Daphnia longispina</i> in a shallow subarctic pond: Does the interaction of ultraviolet radiation and <i>Chaoborus</i> predation explain the pattern?. <i>Polar Biology</i> , 2003, 26, 659-665.	1.2	28
65	Holocene development and early extreme acidification in a small hilltop lake in southern Finland. <i>Boreas</i> , 1991, 20, 333-356.	2.4	28
66	Light-absorption of dust and elemental carbon in snow in the Indian Himalayas and the Finnish Arctic. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1403-1416.	3.1	27
67	Impacts of Eutrophication on Diatom Life Forms and Species Richness in Coastal Waters of the Baltic Sea. <i>Ambio</i> , 2007, 36, 155-160.	5.5	26
68	Title is missing!. <i>Journal of Paleolimnology</i> , 1997, 17, 191-213.	1.6	25
69	Chironomid response to environmental drivers during the Holocene in a shallow treeline lake in northwestern Fennoscandia. <i>Holocene</i> , 2008, 18, 215-227.	1.7	23
70	Actinobacteria community structure in the peat profile of boreal bogs follows a variation in the microtopographical gradient similar to vegetation. <i>Plant and Soil</i> , 2013, 369, 103-114.	3.7	22
71	Dissolved organic matter concentration, optical parameters and attenuation of solar radiation in high-latitude lakes across three vegetation zones. <i>Ecoscience</i> , 2015, 22, 17-31.	1.4	21
72	Spatially varying peatland initiation, Holocene development, carbon accumulation patterns and radiative forcing within a subarctic fen. <i>Quaternary Science Reviews</i> , 2020, 248, 106596.	3.0	21

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73	Identifying recent sources of organic matter enrichment and eutrophication trends at coastal sites using stable nitrogen and carbon isotope ratios in sediment cores. <i>Journal of Paleolimnology</i> , 2013, 50, 191-206.	1.6	19
74	Diatom Inferred Acidity History Of 32 Lakes On The Kola Peninsula, Russia. <i>Water, Air, and Soil Pollution</i> , 2003, 149, 339-361.	2.4	18
75	A long-term record of human impacts on an urban ecosystem in the sediments of TÄŕÄŕlÄŕnlahti Bay in Helsinki, Finland. <i>Environmental Conservation</i> , 1997, 24, 326-337.	1.3	17
76	Inferred Holocene Paleotemperatures from Diatoms at Lake Lama, Central Siberia. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 624-634.	1.1	17
77	Do contemporary (1980â€“2015) emissions determine the elemental carbon deposition trend at Holtedahlfonna glacier, Svalbard?. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12779-12795.	4.9	17
78	Climate variability in the subarctic area for the last 2 millennia. <i>Climate of the Past</i> , 2018, 14, 101-116.	3.4	17
79	Searching for order in chaos: a sediment stratigraphical study of a multiple-impacted bay of the Baltic Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2004, 59, 319-332.	2.1	16
80	Evidence for a more recent occurrence of water chestnut (<i>Trapa natans</i> L.) in Finland and its palaeoenvironmental implications. <i>Holocene</i> , 1997, 7, 39-44.	1.7	15
81	Observations of <i>Ebria tripartita</i> (Schumann) Lemmermann in Baltic sediments. <i>Journal of Paleolimnology</i> , 1999, 21, 1-8.	1.6	15
82	Reconstructing lake ice cover in subarctic lakes using a diatom-based inference model. <i>Geophysical Research Letters</i> , 2014, 41, 2026-2032.	4.0	15
83	Reâ€“evaluation of late <sc>H</sc>olocene fire histories of three boreal bogs suggest a link between bog fire and climate. <i>Boreas</i> , 2015, 44, 60-67.	2.4	9
84	Geochemical signatures of two different coastal depositional environments within the same catchment. <i>Journal of Paleolimnology</i> , 2007, 38, 241-260.	1.6	8
85	Mining pollution triggered a regime shift in the cladoceran community of Lake KirkkojÄŕvi, southern Finland. <i>Journal of Paleolimnology</i> , 2018, 60, 413-425.	1.6	8
86	Reliability of temperature signal in various climate indicators from northern Europe. <i>PLoS ONE</i> , 2017, 12, e0180042.	2.5	5
87	A first continuous three-year temperature record from the dimictic arcticâ€“alpine Lake Tarfala, northern Sweden. <i>Arctic, Antarctic, and Alpine Research</i> , 2021, 53, 69-79.	1.1	3
88	The Early Postglacial History of Lake SirkkajÄŕvi, Southern Finland, with Implications to the â€œG Stageâ€• of the Baltic. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1996, 78, 235-245.	1.5	1