Atte Korhola

List of Publications by Year in descending order

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82	6,048	76326	71685
papers	citations	40 h-index	76 g-index

84	84	84	5339
all docs	docs citations	times ranked	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	A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. Holocene, 2014, 24, 1028-1042.	1.7	404
3	Lake diatom response to recent Arctic warming in Finnish Lapland. Global Change Biology, 2002, 8, 171-181.	9.5	253
4	Cladocera and Other Branchiopod Crustaceans. Developments in Paleoenvironmental Research, 2001, , 5-41.	8.0	200
5	Title is missing!. Journal of Paleolimnology, 2000, 24, 43-54.	1.6	197
6	Latitudinal limits to the predicted increase of the peatland carbon sink with warming. Nature Climate Change, 2018, 8, 907-913.	18.8	188
7	A Quantitative Holocene Climatic Record from Diatoms in Northern Fennoscandia. Quaternary Research, 2000, 54, 284-294.	1.7	177
8	Global change revealed by palaeolimnological records from remote lakes: a review. Journal of Paleolimnology, 2013, 49, 513-535.	1.6	173
9	Title is missing!. Journal of Paleolimnology, 2002, 28, 161-179.	1.6	169
10	Holocene temperature changes in northern Fennoscandia reconstructed from chironomids using Bayesian modelling. Quaternary Science Reviews, 2002, 21, 1841-1860.	3.0	161
11	Changes of treelines and alpine vegetation in relation to post-glacial climate dynamics in northern Fennoscandia based on pollen and chironomid records. Journal of Quaternary Science, 2002, 17, 287-301.	2.1	144
12	High-resolution reconstruction of wetness dynamics in a southern boreal raised bog, Finland, during the late Holocene: a quantitative approach. Holocene, 2007, 17, 1093-1107.	1.7	136
13	The Relationship between Diatoms and Water Temperature in Thirty Subarctic Fennoscandian Lakes. Arctic and Alpine Research, 1997, 29, 75.	1.3	133
14	Widespread drying of European peatlands in recent centuries. Nature Geoscience, 2019, 12, 922-928.	12.9	130
15	Diatoms as quantitative indicators of pH and water temperature in subarctic Fennoscandian lakes. Hydrobiologia, 1997, 347, 171-184.	2.0	124
16	Effects of Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 63-74.	5.5	123
17	Distribution patterns of Cladocera in subarctic Fennoscandian lakes and their potential in environmental reconstruction. Ecography, 1999, 22, 357-373.	4.5	115
18	Quantification of Holocene lake-level changes in Finnish Lapland using a cladocera â€“ lake depth transfer model. Journal of Paleolimnology, 2005, 34, 175-190.	1.6	111

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19	The importance of northern peatland expansion to the late-Holocene rise of atmospheric methane. Quaternary Science Reviews, 2010, 29, 611-617.	3.0	109
20	Past and Future Changes in Arctic Lake and River Ice. Ambio, 2011, 40, 53-62.	5.5	105
21	Diatom and crustacean zooplankton communities, their seasonal variability and representation in the sediments of subarctic Lake SaanajÃrvi. Journal of Limnology, 2000, 59, 81.	1.1	102
22	Title is missing!. Journal of Paleolimnology, 1997, 18, 45-59.	1.6	100
23	Holocene climatic variations in southern Finland reconstructed from peat-initiation data. Holocene, 1995, 5, 43-57.	1.7	83
24	Postglacial spatiotemporal peatland initiation and lateral expansion dynamics in North America and northern Europe. Holocene, 2013, 23, 1596-1606.	1.7	76
25	Temperature patterns over the past eight centuries in Northern Fennoscandia inferred from sedimentary diatoms. Quaternary Research, 2006, 66, 78-86.	1.7	70
26	Title is missing!. Journal of Paleolimnology, 1998, 20, 205-215.	1.6	68
27	The ecology of Pediastrum (Chlorophyceae) in subarctic lakes and their potential as paleobioindicators. Journal of Paleolimnology, 2010, 43, 61-73.	1.6	66
28	UV-induced pigmentation in subarctic Daphnia. Limnology and Oceanography, 2002, 47, 295-299.	3.1	65
29	Three-dimensional reconstruction of carbon accumulation and CH4 emission during nine millennia in a raised mire. Journal of Quaternary Science, 1996, 11, 161-165.	2.1	61
30	A Bayesian multinomial Gaussian response model for organism-based environmental reconstruction. Journal of Paleolimnology, 2000, 24, 243-250.	1.6	61
31	Effects of ultraviolet radiation and dissolved organic carbon on the survival of subarctic zooplankton. Polar Biology, 2002, 25, 460-468.	1.2	58
32	Neutral monosaccharides as biomarker proxies for bog-forming plants for application to palaeovegetation reconstruction in ombrotrophic peat deposits. Organic Geochemistry, 2008, 39, 1790-1799.	1.8	56
33	Arctic hydroclimate variability during the last 2000 years: current understanding and research challenges. Climate of the Past, 2018, 14, 473-514.	3.4	54
34	Seasonality of phytoplankton in subarctic Lake SaanajÃrvi in NW Finnish Lapland. Polar Biology, 2005, 28, 846-861.	1.2	52
35	Pairwise comparisons to reconstruct mean temperature in the Arctic Atlantic Region over the last 2,000Âyears. Climate Dynamics, 2013, 41, 2039-2060.	3.8	49
36	Climatic influence on peatland formation and lateral expansion in subâ€arctic Fennoscandia. Boreas, 2010, 39, 761-769.	2.4	48

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37	New evidence of warm early-Holocene summers in subarctic Finland based on an enhanced regional chironomid-based temperature calibration model. Quaternary Research, 2014, 81, 50-62.	1.7	48
38	Estimating Long-Term Carbon Accumulation Rates in Boreal Peatlands by Radiocarbon Dating. Radiocarbon, 1995, 37, 575-584.	1.8	47
39	APPLYING BAYESIAN STATISTICS TO ORGANISM-BASED ENVIRONMENTAL RECONSTRUCTION. , 2001, 11, 618-630.		47
40	Holocene climate dynamics in Fennoscandia and the North Atlantic. , 2004, , 465-494.		46
41	Multiple mining impacts induce widespread changes in ecosystem dynamics in a boreal lake. Scientific Reports, 2017, 7, 10581.	3.3	45
42	Holocene fenâ€“bog transitions, current status in Finland and future perspectives. Holocene, 2017, 27, 752-764.	1.7	42
43	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	4.9	42
44	Initiation of a sloping mire complex in southwestern Finland: Autogenicversusallogenic controls. Ecoscience, 1996, 3, 216-222.	1.4	40
45	Predicting the long-term acidification trends in small subarctic lakes using diatoms. Journal of Applied Ecology, 1999, 36, 1021-1034.	4.0	40
46	Arctic Freshwater Ice and Its Climatic Role. Ambio, 2011, 40, 46-52.	5.5	40
47	Quantifying Background Nutrient Concentrations in Coastal Waters: A Case Study from an Urban Embayment of the Baltic Sea. Ambio, 2004, 33, 324-327.	5.5	38
48	Seasonal formation of clastic-biogenic varves: the potential for palaeoenvironmental interpretations. Gff, 2013, 135, 237-247.	1.2	32
49	Spatial and Temporal Patterns in Black Carbon Deposition to Dated Fennoscandian Arctic Lake Sediments from 1830 to 2010. Environmental Science & Technology, 2015, 49, 13954-13963.	10.0	30
50	Vertical distribution of Daphnia longispina in a shallow subarctic pond: Does the interaction of ultraviolet radiation and Chaoborus predation explain the pattern?. Polar Biology, 2003, 26, 659-665.	1.2	28
51	Impacts of Eutrophication on Diatom Life Forms and Species Richness in Coastal Waters of the Baltic Sea. Ambio, 2007, 36, 155-160.	5.5	26
52	Paleolimnological studies in arctic Fennoscandia and the Kola Peninsula (Russia). , 2004, , 381-418.		26
53	Title is missing!. Journal of Paleolimnology, 1997, 17, 191-213.	1.6	25
54	Marked early 20th century pollution and the subsequent recovery of Tï¿½ï¿½lï¿½ Bay, central Helsinki, as indicated by subfossil diatom assemblage changes. Hydrobiologia, 1996, 341, 169-179.	2.0	23

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55	Chironomid response to environmental drivers during the Holocene in a shallow treeline lake in northwestern Fennoscandia. Holocene, 2008, 18, 215-227.	1.7	23
56	Actinobacteria community structure in the peat profile of boreal bogs follows a variation in the microtopographical gradient similar to vegetation. Plant and Soil, 2013, 369, 103-114.	3.7	22
57	Comparison of Cladocera-based water-depth reconstruction against other types of proxy data in Finnish Lapland. Hydrobiologia, 2011, 676, 155-172.	2.0	21
58	Dissolved organic matter concentration, optical parameters and attenuation of solar radiation in high-latitude lakes across three vegetation zones. Ecoscience, 2015, 22, 17-31.	1.4	21
59	Spatially varying peatland initiation, Holocene development, carbon accumulation patterns and radiative forcing within a subarctic fen. Quaternary Science Reviews, 2020, 248, 106596.	3.0	21
60	Identifying recent sources of organic matter enrichment and eutrophication trends at coastal sites using stable nitrogen and carbon isotope ratios in sediment cores. Journal of Paleolimnology, 2013, 50, 191-206.	1.6	19
61	Diatom Inferred Acidity History Of 32 Lakes On The Kola Peninsula, Russia. Water, Air, and Soil Pollution, 2003, 149, 339-361.	2.4	18
62	A long-term record of human impacts on an urban ecosystem in the sediments of TÃ¶Ã¶lÃ¶nlahti Bay in Helsinki, Finland. Environmental Conservation, 1997, 24, 326-337.	1.3	17
63	Changes in Physical and Chemical Limnology and Plankton during the Spring Melt Period in a Subarctic Lake. International Review of Hydrobiology, 2007, 92, 301-325.	0.9	17
64	Do contemporary (1980â€“2015) emissions determine the elemental carbon deposition trend at Holtedahlfonna glacier, Svalbard?. Atmospheric Chemistry and Physics, 2017, 17, 12779-12795.	4.9	17
65	Climate variability in the subarctic area for the last 2 millennia. Climate of the Past, 2018, 14, 101-116.	3.4	17
66	Observations of Ebria tripartita (Schumann) Lemmermann in Baltic sediments. Journal of Paleolimnology, 1999, 21, 1-8.	1.6	15
67	Physical and chemical characteristics of shallow embayments on the southern coast of Finland. Hydrobiologia, 2002, 477, 115-127.	2.0	15
68	Reconstructing lake ice cover in subarctic lakes using a diatom-based inference model. Geophysical Research Letters, 2014, 41, 2026-2032.	4.0	15
69	Comparison of Spheroidal Carbonaceous Particle Data with Modelled Atmospheric Black Carbon Concentration and Deposition and Air Mass Sources in Northern Europe, 1850â€“2010. Advances in Meteorology, 2013, 2013, 1-15.	1.6	14
70	The Litorina transgression in the Helsinki region, southern Finland: new evidence from coastal mire deposits. Boreas, 1995, 24, 173-182.	2.4	10
71	Reâ€evaluation of late <scp>H</scp>olocene fire histories of three boreal bogs suggest a link between bog fire and climate. Boreas, 2015, 44, 60-67.	2.4	9
72	Mining pollution triggered a regime shift in the cladoceran community of Lake KirkkojÃrvi, southern Finland. Journal of Paleolimnology, 2018, 60, 413-425.	1.6	8

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73	Learning, Mining, or Modeling? A Case Study from Paleoecology. Lecture Notes in Computer Science, 1998, , 12-24.	1.3	7
74	Finding a consensus on credible features among several paleoclimate reconstructions. Annals of Applied Statistics, 2012, 6, .	1.1	6
75	Biogeography and ecology of freshwater chrysophyte cysts in Finland. Hydrobiologia, 2020, 847, 487-499.	2.0	6
76	Reliability of temperature signal in various climate indicators from northern Europe. PLoS ONE, 2017, 12, e0180042.	2.5	5
77	A first continuous three-year temperature record from the dimictic arcticâ€“alpine Lake Tarfala, northern Sweden. Arctic, Antarctic, and Alpine Research, 2021, 53, 69-79.	1.1	3
78	Warming climate forcing impact from a sub-arctic peatland as a result of late Holocene permafrost aggradation and initiation of bare peat surfaces. Quaternary Science Reviews, 2021, 264, 107022.	3.0	3
79	Paleolimnological Fingerprinting of the Impact of Acid Mine Drainage After 50ÂYears of Chronic Pollution in a Southern Finnish Lake. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	2
80	The Early Postglacial History of Lake SirkkajÃrvi, Southern Finland, with Implications to the â€œG Stageâ€• of the Baltic. Geografiska Annaler, Series A: Physical Geography, 1996, 78, 235-245.	1.5	1
81	Reply to Janna Turkia's comment of Virkanen et al. (1997). Journal of Paleolimnology, 1998, 20, 104-104.	1.6	0
82	Ebridians. , 2002, , 225-234.		0