

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	Expert assessment of future vulnerability of the global peatland carbon sink. <i>Nature Climate Change</i> , 2021, 11, 70-77.	18.8	167
2	A first continuous three-year temperature record from the dimictic arctic-alpine Lake Tarfala, northern Sweden. <i>Arctic, Antarctic, and Alpine Research</i> , 2021, 53, 69-79.	1.1	3
3	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
4	Serious mismatches continue between science and policy in forest bioenergy. <i>GCB Bioenergy</i> , 2019, 11, 1256-1263.	5.6	82
5	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.	4.9	42
6	Widespread drying of European peatlands in recent centuries. <i>Nature Geoscience</i> , 2019, 12, 922-928.	12.9	130
7	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
8	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
9	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
10	Climate variability in the subarctic area for the last 2 millennia. <i>Climate of the Past</i> , 2018, 14, 101-116.	3.4	17
11	Mining pollution triggered a regime shift in the cladoceran community of Lake Kirkkojärvi, southern Finland. <i>Journal of Paleolimnology</i> , 2018, 60, 413-425.	1.6	8
12	Holocene fen-bog transitions, current status in Finland and future perspectives. <i>Holocene</i> , 2017, 27, 752-764.	1.7	42
13	Do contemporary (1980-2015) emissions determine the elemental carbon deposition trend at Holtedahlfonna glacier, Svalbard?. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12779-12795.	4.9	17
14	Reliability of temperature signal in various climate indicators from northern Europe. <i>PLoS ONE</i> , 2017, 12, e0180042.	2.5	5
15	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
16	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
17	Re-evaluation of late Holocene fire histories of three boreal bogs suggest a link between bog fire and climate. <i>Boreas</i> , 2015, 44, 60-67.	2.4	9
18	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

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19	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
20	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
21	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
22	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
23	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
24	Global change revealed by palaeolimnological records from remote lakes: a review. <i>Journal of Paleolimnology</i> , 2013, 49, 513-535.	1.6	173
25	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
26	Continental-scale temperature variability during the past two millennia. <i>Nature Geoscience</i> , 2013, 6, 339-346.	12.9	954
27	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
28	Postglacial spatiotemporal peatland initiation and lateral expansion dynamics in North America and northern Europe. <i>Holocene</i> , 2013, 23, 1596-1606.	1.7	76
29	Climate-related changes in peatland carbon accumulation during the last millennium. <i>Biogeosciences</i> , 2013, 10, 929-944.	3.3	257
30	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
31	Sediment accumulation rates in European lakes since AD 1850: trends, reference conditions and exceedence. <i>Journal of Paleolimnology</i> , 2011, 45, 447-468.	1.6	91
32	Arctic Freshwater Ice and Its Climatic Role. <i>Ambio</i> , 2011, 40, 46-52.	5.5	40
33	Past and Future Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 53-62.	5.5	105
34	Effects of Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 63-74.	5.5	123
35	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
36	Climatic influence on peatland formation and lateral expansion in subarctic Fennoscandia. <i>Boreas</i> , 2010, 39, 761-769.	2.4	48

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37	Terrestrial biogeochemical feedbacks in the climate system. <i>Nature Geoscience</i> , 2010, 3, 525-532.	12.9	486
38	The importance of northern peatland expansion to the late-Holocene rise of atmospheric methane. <i>Quaternary Science Reviews</i> , 2010, 29, 611-617.	3.0	109
39	Regionalisation of chemical variability in European mountain lakes. <i>Freshwater Biology</i> , 2009, 54, 2452-2469.	2.4	91
40	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
41	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
42	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
43	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
44	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
45	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
46	Geochemical signatures of two different coastal depositional environments within the same catchment. <i>Journal of Paleolimnology</i> , 2007, 38, 241-260.	1.6	8
47	Temperature patterns over the past eight centuries in Northern Fennoscandia inferred from sedimentary diatoms. <i>Quaternary Research</i> , 2006, 66, 78-86.	1.7	70
48	Long-term trends in eutrophication and nutrients in the coastal zone. <i>Limnology and Oceanography</i> , 2006, 51, 385-397.	3.1	85
49	The distribution and diversity of Chironomidae (Insecta: Diptera) in western Finnish Lapland, with special emphasis on shallow lakes. <i>Global Ecology and Biogeography</i> , 2005, 14, 137-153.	5.8	85
50	Seasonality of phytoplankton in subarctic Lake Saanajärvi in NW Finnish Lapland. <i>Polar Biology</i> , 2005, 28, 846-861.	1.2	52
51	Acidification in European mountain lake districts: A regional assessment of critical load exceedance. <i>Aquatic Sciences</i> , 2005, 67, 237-251.	1.5	47
52	Quantification of Holocene lake-level changes in Finnish Lapland using a cladocera "lake depth transfer model. <i>Journal of Paleolimnology</i> , 2005, 34, 175-190.	1.6	111
53	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
54	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

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55	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
56	Inferred Holocene Paleotemperatures from Diatoms at Lake Lama, Central Siberia. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 624-634.	1.1	17
57	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
58	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
59	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
60	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
61	UV-induced pigmentation in subarctic <i>Daphnia</i> . <i>Limnology and Oceanography</i> , 2002, 47, 295-299.	3.1	65
62	Holocene temperature changes in northern Fennoscandia reconstructed from chironomids using Bayesian modelling. <i>Quaternary Science Reviews</i> , 2002, 21, 1841-1860.	3.0	161
63	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
64	Lake diatom response to recent Arctic warming in Finnish Lapland. <i>Global Change Biology</i> , 2002, 8, 171-181.	9.5	253
65	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 25-46.	1.6	135
66	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 59-77.	1.6	65
67	Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 161-179.	1.6	169
68	Title is missing!. <i>Journal of Paleolimnology</i> , 2000, 24, 43-54.	1.6	197
69	A Bayesian multinomial Gaussian response model for organism-based environmental reconstruction. <i>Journal of Paleolimnology</i> , 2000, 24, 243-250.	1.6	61
70	A Quantitative Holocene Climatic Record from Diatoms in Northern Fennoscandia. <i>Quaternary Research</i> , 2000, 54, 284-294.	1.7	177
71	Paleohydrology inferred from diatoms in northern latitude regions. <i>Journal of Paleolimnology</i> , 2000, 24, 93-107.	1.6	47
72	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

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73	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
74	Distribution patterns of Cladocera in subarctic Fennoscandian lakes and their potential in environmental reconstruction. <i>Ecography</i> , 1999, 22, 357-373.	4.5	115
75	Observations of <i>Ebria tripartita</i> (Schumann) Lemmermann in Baltic sediments. <i>Journal of Paleolimnology</i> , 1999, 21, 1-8.	1.6	15
76	Title is missing!. <i>Journal of Paleolimnology</i> , 1998, 20, 205-215.	1.6	68
77	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
78	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
79	The Relationship between Diatoms and Water Temperature in Thirty Subarctic Fennoscandian Lakes. <i>Arctic and Alpine Research</i> , 1997, 29, 75.	1.3	133
80	Title is missing!. <i>Journal of Paleolimnology</i> , 1997, 18, 45-59.	1.6	100
81	Title is missing!. <i>Journal of Paleolimnology</i> , 1997, 17, 191-213.	1.6	25
82	Initiation of a sloping mire complex in southwestern Finland: Autogenic<i> versus</i> allogenic controls. <i>Ecoscience</i> , 1996, 3, 216-222.	1.4	40
83	The Early Postglacial History of Lake SirkkajÄŕvi, Southern Finland, with Implications to the â€œC Stageâ€• of the Baltic. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1996, 78, 235-245.	1.5	1
84	Estimating Long-Term Carbon Accumulation Rates in Boreal Peatlands by Radiocarbon Dating. <i>Radiocarbon</i> , 1995, 37, 575-584.	1.8	47
85	Holocene climatic variations in southern Finland reconstructed from peat-initiation data. <i>Holocene</i> , 1995, 5, 43-57.	1.7	83
86	Radiocarbon Evidence for Rates of Lateral Expansion in Raised Mires in Southern Finland. <i>Quaternary Research</i> , 1994, 42, 299-307.	1.7	63
87	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
88	Holocene development and early extreme acidification in a small hilltop lake in southern Finland. <i>Boreas</i> , 1991, 20, 333-356.	2.4	28