

# Atte A Korhola

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

8,825  
citations

46984

47  
h-index

46771

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.                                                                   | 8.1 | 167       |
| 2  | 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.              | 0.4 | 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.  | 1.4 | 21        |
| 4  | Serious mismatches continue between science and policy in forest bioenergy. <i>GCB Bioenergy</i> , 2019, 11, 1256-1263.                                                                         | 2.5 | 82        |
| 5  | Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.                                     | 1.9 | 42        |
| 6  | Widespread drying of European peatlands in recent centuries. <i>Nature Geoscience</i> , 2019, 12, 922-928.                                                                                      | 5.4 | 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.                                      | 1.3 | 54        |
| 8  | Latitudinal limits to the predicted increase of the peatland carbon sink with warming. <i>Nature Climate Change</i> , 2018, 8, 907-913.                                                         | 8.1 | 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.                          | 1.2 | 27        |
| 10 | Climate variability in the subarctic area for the last 2 millennia. <i>Climate of the Past</i> , 2018, 14, 101-116.                                                                             | 1.3 | 17        |
| 11 | Mining pollution triggered a regime shift in the cladoceran community of Lake KirkkojÃrvi, southern Finland. <i>Journal of Paleolimnology</i> , 2018, 60, 413-425.                              | 0.8 | 8         |
| 12 | Holocene fenâ€“bog transitions, current status in Finland and future perspectives. <i>Holocene</i> , 2017, 27, 752-764.                                                                         | 0.9 | 42        |
| 13 | 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. | 1.9 | 17        |
| 14 | Reliability of temperature signal in various climate indicators from northern Europe. <i>PLoS ONE</i> , 2017, 12, e0180042.                                                                     | 1.1 | 5         |
| 15 | Spatial and Temporal Patterns in Black Carbon Deposition to Dated Fennoscandian Arctic Lake Sediments from 1830 to 2010. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13954-13963. | 4.6 | 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.        | 0.6 | 21        |
| 17 | Reâ€“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.                                              | 1.2 | 9         |
| 18 | Looking forward through the past: identification of 50 priority research questions in palaeoecology. <i>Journal of Ecology</i> , 2014, 102, 256-267.                                            | 1.9 | 212       |

| #  | ARTICLE                                                                                                                                                                                                                     | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | A database and synthesis of northern peatland soil properties and Holocene carbon and nitrogen accumulation. <i>Holocene</i> , 2014, 24, 1028-1042.                                                                         | 0.9 | 404       |
| 20 | Reconstructing lake ice cover in subarctic lakes using a diatom-based inference model. <i>Geophysical Research Letters</i> , 2014, 41, 2026-2032.                                                                           | 1.5 | 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.                                | 1.0 | 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.                                 | 1.9 | 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. | 0.8 | 19        |
| 24 | Global change revealed by palaeolimnological records from remote lakes: a review. <i>Journal of Paleolimnology</i> , 2013, 49, 513-535.                                                                                     | 0.8 | 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.                             | 1.8 | 22        |
| 26 | Continental-scale temperature variability during the past two millennia. <i>Nature Geoscience</i> , 2013, 6, 339-346.                                                                                                       | 5.4 | 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.                                                                | 1.7 | 49        |
| 28 | Postglacial spatiotemporal peatland initiation and lateral expansion dynamics in North America and northern Europe. <i>Holocene</i> , 2013, 23, 1596-1606.                                                                  | 0.9 | 76        |
| 29 | Climate-related changes in peatland carbon accumulation during the last millennium. <i>Biogeosciences</i> , 2013, 10, 929-944.                                                                                              | 1.3 | 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.                                  | 0.7 | 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.                                                             | 0.8 | 91        |
| 32 | Arctic Freshwater Ice and Its Climatic Role. <i>Ambio</i> , 2011, 40, 46-52.                                                                                                                                                | 2.8 | 40        |
| 33 | Past and Future Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 53-62.                                                                                                                                       | 2.8 | 105       |
| 34 | Effects of Changes in Arctic Lake and River Ice. <i>Ambio</i> , 2011, 40, 63-74.                                                                                                                                            | 2.8 | 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.                                                          | 0.8 | 66        |
| 36 | Climatic influence on peatland formation and lateral expansion in subarctic Fennoscandia. <i>Boreas</i> , 2010, 39, 761-769.                                                                                                | 1.2 | 48        |

| #  | ARTICLE                                                                                                                                                                                                  | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Terrestrial biogeochemical feedbacks in the climate system. <i>Nature Geoscience</i> , 2010, 3, 525-532.                                                                                                 | 5.4 | 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.                                                   | 1.4 | 109       |
| 39 | Regionalisation of chemical variability in European mountain lakes. <i>Freshwater Biology</i> , 2009, 54, 2452-2469.                                                                                     | 1.2 | 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.                                         | 1.6 | 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.                                           | 0.9 | 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. | 0.9 | 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.                   | 0.9 | 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.                                                               | 2.8 | 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.                              | 1.1 | 171       |
| 46 | Geochemical signatures of two different coastal depositional environments within the same catchment. <i>Journal of Paleolimnology</i> , 2007, 38, 241-260.                                               | 0.8 | 8         |
| 47 | Temperature patterns over the past eight centuries in Northern Fennoscandia inferred from sedimentary diatoms. <i>Quaternary Research</i> , 2006, 66, 78-86.                                             | 1.0 | 70        |
| 48 | Long-term trends in eutrophication and nutrients in the coastal zone. <i>Limnology and Oceanography</i> , 2006, 51, 385-397.                                                                             | 1.6 | 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.        | 2.7 | 85        |
| 50 | Seasonality of phytoplankton in subarctic Lake Saanajärvi in NW Finnish Lapland. <i>Polar Biology</i> , 2005, 28, 846-861.                                                                               | 0.5 | 52        |
| 51 | Acidification in European mountain lake districts: A regional assessment of critical load exceedance. <i>Aquatic Sciences</i> , 2005, 67, 237-251.                                                       | 0.6 | 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.                                     | 0.8 | 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.           | 0.4 | 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.               | 3.3 | 828       |

| #  | ARTICLE                                                                                                                                                                                                                      | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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.                       | 0.9 | 46        |
| 56 | Inferred Holocene Paleotemperatures from Diatoms at Lake Lama, Central Siberia. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 624-634.                                                                           | 0.4 | 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.                                                | 0.9 | 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.                                                                  | 2.8 | 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.                                                                                       | 1.1 | 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. | 0.5 | 28        |
| 61 | UV-induced pigmentation in subarctic <i>Daphnia</i> . <i>Limnology and Oceanography</i> , 2002, 47, 295-299.                                                                                                                 | 1.6 | 65        |
| 62 | Holocene temperature changes in northern Fennoscandia reconstructed from chironomids using Bayesian modelling. <i>Quaternary Science Reviews</i> , 2002, 21, 1841-1860.                                                      | 1.4 | 161       |
| 63 | Effects of ultraviolet radiation and dissolved organic carbon on the survival of subarctic zooplankton. <i>Polar Biology</i> , 2002, 25, 460-468.                                                                            | 0.5 | 58        |
| 64 | Lake diatom response to recent Arctic warming in Finnish Lapland. <i>Global Change Biology</i> , 2002, 8, 171-181.                                                                                                           | 4.2 | 253       |
| 65 | Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 25-46.                                                                                                                                                       | 0.8 | 135       |
| 66 | Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 59-77.                                                                                                                                                       | 0.8 | 65        |
| 67 | Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 161-179.                                                                                                                                                     | 0.8 | 169       |
| 68 | Title is missing!. <i>Journal of Paleolimnology</i> , 2000, 24, 43-54.                                                                                                                                                       | 0.8 | 197       |
| 69 | A Bayesian multinomial Gaussian response model for organism-based environmental reconstruction. <i>Journal of Paleolimnology</i> , 2000, 24, 243-250.                                                                        | 0.8 | 61        |
| 70 | A Quantitative Holocene Climatic Record from Diatoms in Northern Fennoscandia. <i>Quaternary Research</i> , 2000, 54, 284-294.                                                                                               | 1.0 | 177       |
| 71 | Paleohydrology inferred from diatoms in northern latitude regions. <i>Journal of Paleolimnology</i> , 2000, 24, 93-107.                                                                                                      | 0.8 | 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.                                                  | 0.9 | 184       |

| #  | ARTICLE                                                                                                                                                                                                  | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Predicting the long-term acidification trends in small subarctic lakes using diatoms. <i>Journal of Applied Ecology</i> , 1999, 36, 1021-1034.                                                           | 1.9 | 40        |
| 74 | Distribution patterns of Cladocera in subarctic Fennoscandian lakes and their potential in environmental reconstruction. <i>Ecography</i> , 1999, 22, 357-373.                                           | 2.1 | 115       |
| 75 | Observations of <i>Ebria tripartita</i> (Schumann) Lemmermann in Baltic sediments. <i>Journal of Paleolimnology</i> , 1999, 21, 1-8.                                                                     | 0.8 | 15        |
| 76 | Title is missing!. <i>Journal of Paleolimnology</i> , 1998, 20, 205-215.                                                                                                                                 | 0.8 | 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.                                 | 0.9 | 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.                            | 0.7 | 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.                                                                                                                                   | 0.8 | 100       |
| 81 | Title is missing!. <i>Journal of Paleolimnology</i> , 1997, 17, 191-213.                                                                                                                                 | 0.8 | 25        |
| 82 | Initiation of a sloping mire complex in southwestern Finland: Autogenic<i> versus</i> allogenic controls. <i>Ecoscience</i> , 1996, 3, 216-222.                                                          | 0.6 | 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. | 0.6 | 1         |
| 84 | Estimating Long-Term Carbon Accumulation Rates in Boreal Peatlands by Radiocarbon Dating. <i>Radiocarbon</i> , 1995, 37, 575-584.                                                                        | 0.8 | 47        |
| 85 | Holocene climatic variations in southern Finland reconstructed from peat-initiation data. <i>Holocene</i> , 1995, 5, 43-57.                                                                              | 0.9 | 83        |
| 86 | Radiocarbon Evidence for Rates of Lateral Expansion in Raised Mires in Southern Finland. <i>Quaternary Research</i> , 1994, 42, 299-307.                                                                 | 1.0 | 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.                                                 | 0.8 | 41        |
| 88 | Holocene development and early extreme acidification in a small hilltop lake in southern Finland. <i>Boreas</i> , 1991, 20, 333-356.                                                                     | 1.2 | 28        |