

# Heikki Seppä

## List of Publications by Year in descending order

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122  
papers

6,047  
citations

57758

44  
h-index

85541

71  
g-index

130  
all docs

130  
docs citations

130  
times ranked

5040  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatic and hydrological variability as a driver of the Lake GoÅciÄ...Å¼ biota during the Younger Dryas. <i>Catena</i> , 2022, 212, 106049.	5.0	7
2	Spatial and temporal patterns of Holocene precipitation change in the Iberian Peninsula. <i>Boreas</i> , 2022, 51, 776-792.	2.4	16
3	Norway spruce postglacial recolonization of Fennoscandia. <i>Nature Communications</i> , 2022, 13, 1333.	12.8	14
4	Past 200 kyr hydroclimate variability in the western Mediterranean and its connection to the African Humid Periods. <i>Scientific Reports</i> , 2022, 12, .	3.3	9
5	Patterns in recent and Holocene pollen accumulation rates across Europe â the Pollen Monitoring Programme Database as a tool for vegetation reconstruction. <i>Biogeosciences</i> , 2021, 18, 4511-4534.	3.3	5
6	Spatial contrasts of the Holocene hydroclimate trend between North and East Asia. <i>Quaternary Science Reviews</i> , 2020, 227, 106036.	3.0	8
7	Pollen-based climate reconstruction techniques for late Quaternary studies. <i>Earth-Science Reviews</i> , 2020, 210, 103384.	9.1	123
8	Holocene negative coupling of summer temperature and moisture availability over southeastern arid Central Asia. <i>Climate Dynamics</i> , 2020, 55, 1187-1208.	3.8	23
9	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	5.3	112
10	The Eurasian Modern Pollen Database (EMPD), version 2. <i>Earth System Science Data</i> , 2020, 12, 2423-2445.	9.9	34
11	Late glacial and early Holocene climate and environmental changes in the eastern Baltic area inferred from sediment C/N ratio. <i>Journal of Paleolimnology</i> , 2019, 61, 1-16.	1.6	8
12	Evidence of abrupt climate change at 9.3 ka and 8.2 ka in the central Canadian Arctic: Connection to the North Atlantic and Atlantic Meridional Overturning Circulation. <i>Quaternary Science Reviews</i> , 2019, 219, 204-217.	3.0	10
13	Patterns of modern pollen and plant richness across northern Europe. <i>Journal of Ecology</i> , 2019, 107, 1662-1677.	4.0	40
14	Oceanic and atmospheric modes in the Pacific and Atlantic Oceans since the Little Ice Age (LIA): Towards a synthesis. <i>Quaternary Science Reviews</i> , 2019, 215, 293-307.	3.0	21
15	Integrating fire-scar, charcoal and fungal spore data to study fire events in the boreal forest of northern Europe. <i>Holocene</i> , 2019, 29, 1480-1490.	1.7	24
16	Abrupt <i>Alnus</i> population decline at the end of the first millennium CE in Europe â The event ecology, possible causes and implications. <i>Holocene</i> , 2019, 29, 1335-1349.	1.7	34
17	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.	4.9	42
18	An interdecadal climate dipole between Northeast Asia and Antarctica over the past five centuries. <i>Climate Dynamics</i> , 2019, 52, 765-775.	3.8	4

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19	The role of climate, forest fires and human population size in Holocene vegetation dynamics in Fennoscandia. <i>Journal of Vegetation Science</i> , 2018, 29, 382-392.	2.2	24
20	Bark beetles as agents of change in social-ecological systems. <i>Frontiers in Ecology and the Environment</i> , 2018, 16, S34.	4.0	74
21	Holocene temperature trends in the extratropical Northern Hemisphere based on inter-model comparisons. <i>Journal of Quaternary Science</i> , 2018, 33, 464-476.	2.1	18
22	Time-varying relationships among oceanic and atmospheric modes: A turning point at around 1940. <i>Quaternary International</i> , 2018, 487, 12-25.	1.5	6
23	Human responses to early Holocene climate variability in eastern Fennoscandia. <i>Quaternary International</i> , 2018, 465, 287-297.	1.5	14
24	Multiscale variation in drought controlled historical forest fire activity in the boreal forests of eastern Fennoscandia. <i>Ecological Monographs</i> , 2018, 88, 74-91.	5.4	25
25	From microbial eukaryotes to metazoan vertebrates: Wide spectrum paleodiversity in sedimentary ancient DNA over the last ~14,500 years. <i>Geobiology</i> , 2018, 16, 628-639.	2.4	49
26	The global hydroclimate response during the Younger Dryas event. <i>Quaternary Science Reviews</i> , 2018, 193, 84-97.	3.0	37
27	Climate of the late Pleistocene and early Holocene in coastal South China inferred from submerged wood samples. <i>Quaternary International</i> , 2017, 447, 111-117.	1.5	3
28	Holocene temperature evolution in the Northern Hemisphere high latitudes – Model-data comparisons. <i>Quaternary Science Reviews</i> , 2017, 173, 101-113.	3.0	16
29	Widespread, episodic decline of alder ( <i>Alnus</i> ) during the medieval period in the boreal forest of Europe. <i>Journal of Quaternary Science</i> , 2017, 32, 903-907.	2.1	19
30	Quantifying the effects of land use and climate on Holocene vegetation in Europe. <i>Quaternary Science Reviews</i> , 2017, 171, 20-37.	3.0	97
31	Reliability of temperature signal in various climate indicators from northern Europe. <i>PLoS ONE</i> , 2017, 12, e0180042.	2.5	5
32	Effects of melting ice sheets and orbital forcing on the early Holocene warming in the extratropical Northern Hemisphere. <i>Climate of the Past</i> , 2016, 12, 1119-1135.	3.4	22
33	Importance of climate, forest fires and human population size in the Holocene boreal forest composition change in northern Europe. <i>Boreas</i> , 2016, 45, 688-702.	2.4	9
34	Detection of the Askja AD 1875 cryptotephra in Latvia, Eastern Europe. <i>Journal of Quaternary Science</i> , 2016, 31, 437-441.	2.1	20
35	Long-term forest composition and its drivers in taiga forest in NW Russia. <i>Vegetation History and Archaeobotany</i> , 2016, 25, 221-236.	2.1	13
36	A Bayesian multinomial regression model for palaeoclimate reconstruction with time uncertainty. <i>Environmetrics</i> , 2016, 27, 409-422.	1.4	9

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37	Biotic turnover rates during the Pleistocene-Holocene transition. <i>Quaternary Science Reviews</i> , 2016, 151, 100-110.	3.0	28
38	North Atlantic-Fennoscandian Holocene climate trends and mechanisms. <i>Quaternary Science Reviews</i> , 2016, 147, 365-378.	3.0	45
39	East Asian summer monsoon precipitation variations in China over the last 9500 years: A comparison of pollen-based reconstructions and model simulations. <i>Holocene</i> , 2016, 26, 592-602.	1.7	20
40	Does pollen-assemblage richness reflect floristic richness? A review of recent developments and future challenges. <i>Review of Palaeobotany and Palynology</i> , 2016, 228, 1-25.	1.5	152
41	A Bayesian spatiotemporal model for reconstructing climate from multiple pollen records. <i>Annals of Applied Statistics</i> , 2015, 9, .	1.1	17
42	An increase in the biogenic aerosol concentration as a contributing factor to the recent wetting trend in Tibetan Plateau. <i>Scientific Reports</i> , 2015, 5, 14628.	3.3	17
43	Use and misuse of the term "glacial relict" in the Central European biogeography and conservation ecology of insects. <i>Insect Conservation and Diversity</i> , 2015, 8, 389-391.	3.0	3
44	Holocene stand-scale vegetation dynamics and fire history of an old-growth spruce forest in southern Finland. <i>Vegetation History and Archaeobotany</i> , 2015, 24, 731-741.	2.1	14
45	Assessing the Importance of Climate Variables for the Spatial Distribution of Modern Pollen Data in China. <i>Quaternary Research</i> , 2015, 83, 287-297.	1.7	35
46	Trees tracking a warmer climate: The Holocene range shift of hazel ( <i>Corylus avellana</i> ) in northern Europe. <i>Holocene</i> , 2015, 25, 53-63.	1.7	31
47	Moisture stress of a hydrological year on tree growth in the Tibetan Plateau and surroundings. <i>Environmental Research Letters</i> , 2015, 10, 034010.	5.2	41
48	Human population dynamics in Europe over the Last Glacial Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8232-8237.	7.1	140
49	Interdecadal hydroclimate teleconnections between Asia and North America over the past 600 years. <i>Climate Dynamics</i> , 2015, 44, 1777-1787.	3.8	14
50	John Birks: Pioneer in quantitative palaeoecology. <i>Holocene</i> , 2015, 25, 3-16.	1.7	1
51	Quantitative summer and winter temperature reconstructions from pollen and chironomid data between 15 and 8 kBP in the Baltic-Belarus area. <i>Quaternary International</i> , 2015, 388, 4-11.	1.5	47
52	Hydroclimate Variations in Central and Monsoonal Asia over the Past 700 Years. <i>PLoS ONE</i> , 2014, 9, e102751.	2.5	20
53	Validation of climate model-inferred regional temperature change for late-glacial Europe. <i>Nature Communications</i> , 2014, 5, 4914.	12.8	129
54	Role of forest fires in Holocene stand-scale dynamics in the unmanaged taiga forest of northwestern Russia. <i>Holocene</i> , 2014, 24, 1503-1514.	1.7	18

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55	Unexpected Problems in AMS <sup>14</sup> C Dating of Fen Peat. Radiocarbon, 2014, 56, 95-108.	1.8	26
56	Holocene changes in vegetation composition in northern Europe: why quantitative pollen-based vegetation reconstructions matter. Quaternary Science Reviews, 2014, 90, 199-216.	3.0	112
57	Reconstructing palaeoclimatic variables from fossil pollen using boosted regression trees: comparison and synthesis with other quantitative reconstruction methods. Quaternary Science Reviews, 2014, 88, 69-81.	3.0	36
58	Covarying Hydroclimate Patterns between Monsoonal Asia and North America over the Past 600 Years. Journal of Climate, 2014, 27, 8017-8033.	3.2	12
59	Human influence as a potential source of bias in pollen-based quantitative climate reconstructions. Quaternary Science Reviews, 2014, 99, 112-121.	3.0	53
60	Long-term drivers of forest composition in a boreonemoral region: the relative importance of climate and human impact. Journal of Biogeography, 2013, 40, 1524-1534.	3.0	58
61	The European Modern Pollen Database (EMPD) project. Vegetation History and Archaeobotany, 2013, 22, 521-530.	2.1	101
62	Modern pollen and land-use relationships in the Taihang mountains, Hebei province, northern China—a first step towards quantitative reconstruction of human-induced land cover changes. Vegetation History and Archaeobotany, 2013, 22, 463-477.	2.1	19
63	Pollen-based palaeoclimate reconstructions over long glacial–interglacial timescales: methodological tests based on the Holocene and <sup>5</sup> MIS c deposits at Sokli, northern Finland. Journal of Quaternary Science, 2013, 28, 271-282.	2.1	26
64	Using fire regimes to delineate zones in a high-resolution lake sediment record from the western United States. Quaternary Research, 2013, 79, 24-36.	1.7	21
65	Holocene fire frequency variability in Vesijako, Strict Nature Reserve, Finland, and its application to conservation and management. Biological Conservation, 2013, 166, 90-97.	4.1	17
66	The effect of calibration data set selection on quantitative palaeoclimatic reconstructions. Holocene, 2013, 23, 1650-1654.	1.7	16
67	How robust are Holocene treeline simulations? A model–data comparison in the European Arctic treeline region. Journal of Quaternary Science, 2013, 28, 595-604.	2.1	8
68	Comparing different calibration methods (WA/WA-PLS regression and Bayesian modelling) and different-sized calibration sets in pollen-based quantitative climate reconstruction. Holocene, 2012, 22, 413-424.	1.7	39
69	Did the mid-Holocene environmental changes cause the boom and bust of hunter-gatherer population size in eastern Fennoscandia?. Holocene, 2012, 22, 215-225.	1.7	79
70	A North European pollen–climate calibration set: analysing the climatic responses of a biological proxy using novel regression tree methods. Quaternary Science Reviews, 2012, 45, 95-110.	3.0	47
71	Fusing pollen-stratigraphic and dendroclimatic proxy data to reconstruct summer temperature variability during the past 7.5 ka in subarctic Fennoscandia. Journal of Paleolimnology, 2012, 48, 275-286.	1.6	30
72	The pace of Holocene vegetation change – testing for synchronous developments. Quaternary Science Reviews, 2011, 30, 2805-2814.	3.0	88

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73	Scattered late-glacial and early Holocene tree populations as dispersal nuclei for forest development in north-eastern European Russia. <i>Journal of Biogeography</i> , 2011, 38, 922-932.	3.0	60
74	When the pond turtle followed the reindeer: effect of the last extreme global warming event on the timing of faunal change in Northern Europe. <i>Global Change Biology</i> , 2011, 17, 2049-2053.	9.5	24
75	Invasion of Norway spruce diversifies the fire regime in boreal European forests. <i>Journal of Ecology</i> , 2011, 99, 395-403.	4.0	30
76	The Holocene thermal maximum and late-Holocene cooling in the tundra of NE European Russia. <i>Quaternary Research</i> , 2011, 75, 501-511.	1.7	59
77	Holocene aquatic ecosystem change in the boreal vegetation zone of northern Finland. <i>Journal of Paleolimnology</i> , 2011, 45, 339-352.	1.6	30
78	Late-Quaternary palaeoclimatic research in Fennoscandia – A historical review. <i>Boreas</i> , 2010, 39, 655-673.	2.4	39
79	Holocene climate dynamics in Latvia, eastern Baltic region: a pollen-based summer temperature reconstruction and regional comparison. <i>Boreas</i> , 2010, 39, 705-719.	2.4	73
80	Climatic influence on peatland formation and lateral expansion in subarctic Fennoscandia. <i>Boreas</i> , 2010, 39, 761-769.	2.4	48
81	Current continental palaeoclimatic research in the Nordic region (100 years since Gunnar Andersson) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	2.4	8
82	The effect of past changes in interannual temperature variability on tree distribution limits. <i>Journal of Biogeography</i> , 2010, 37, 1394-1405.	3.0	32
83	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
84	Sediment isotope tracers from Lake Saarikko, Finland, and implications for Holocene hydroclimatology. <i>Quaternary Science Reviews</i> , 2010, 29, 2146-2160.	3.0	38
85	Reconciling pollen-stratigraphical and tree-ring evidence for high- and low-frequency temperature variability in the past millennium. <i>Quaternary Science Reviews</i> , 2010, 29, 3905-3918.	3.0	15
86	Calibrated pollen accumulation rates as a basis for quantitative tree biomass reconstructions. <i>Holocene</i> , 2009, 19, 209-220.	1.7	57
87	Quantitative reconstruction of Holocene precipitation changes in southern Patagonia. <i>Quaternary Research</i> , 2009, 72, 410-420.	1.7	78
88	Rapid Lateglacial tree population dynamics and ecosystem changes in the eastern Baltic region. <i>Journal of Quaternary Science</i> , 2009, 24, 802-815.	2.1	72
89	Linking past cultural developments to palaeoenvironmental changes in Estonia. <i>Vegetation History and Archaeobotany</i> , 2009, 18, 315-327.	2.1	21
90	Invasion of Norway spruce ( <i>Picea abies</i> ) and the rise of the boreal ecosystem in Fennoscandia. <i>Journal of Ecology</i> , 2009, 97, 629-640.	4.0	107

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91	Flora, vegetation and climate at Sokli, northeastern Fennoscandia, during the Weichselian Middle Pleniglacial. <i>Boreas</i> , 2009, 38, 335-348.	2.4	29
92	Exploring climatic and biotic controls on Holocene vegetation change in Fennoscandia. <i>Journal of Ecology</i> , 2008, 96, 247-259.	4.0	122
93	Late-Quaternary summer temperature changes in the northern-European tree-line region. <i>Quaternary Research</i> , 2008, 69, 404-412.	1.7	40
94	Integrated varve and pollen-based temperature reconstruction from Finland: evidence for Holocene seasonal temperature patterns at high latitudes. <i>Holocene</i> , 2008, 18, 529-538.	1.7	53
95	Abrupt and consistent responses of aquatic and terrestrial ecosystems to the 8200 cal. yr cold event: a lacustrine record from Lake Arapisto, Finland. <i>Holocene</i> , 2007, 17, 457-467.	1.7	54
96	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
97	Holocene temperatures in Bohuslän, southwest Sweden: a quantitative reconstruction from fossil pollen data. <i>Boreas</i> , 2007, 36, 400-410.	2.4	54
98	Integration of modern and past pollen accumulation rate (PAR) records across the arctic tree-line: a method for more precise vegetation reconstructions. <i>Quaternary Science Reviews</i> , 2006, 25, 1501-1516.	3.0	101
99	Quantitative palaeotemperature records inferred from fossil pollen and chironomid assemblages from Lake Giltjärnen, northern central Sweden. <i>Journal of Quaternary Science</i> , 2006, 21, 831-841.	2.1	69
100	Vegetation dynamics during the Younger Dryas-Holocene transition in the extreme northern taiga zone, northeastern European Russia. <i>Boreas</i> , 2006, 35, 202-212.	2.4	22
101	Holocene History of Alpine Vegetation and Forestline on Pyhäkero Mountain, Northern Finland. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 607-614.	1.1	13
102	A modern pollen-climate calibration set from northern Europe: developing and testing a tool for palaeoclimatological reconstructions. <i>Journal of Biogeography</i> , 2004, 31, 251-267.	3.0	163
103	Holocene annual mean temperature changes in Estonia and their relationship to solar insolation and atmospheric circulation patterns. <i>Quaternary Research</i> , 2004, 61, 22-31.	1.7	127
104	Cold event at 8200 yr B.P. recorded in annually laminated lake sediments in eastern Europe. <i>Geology</i> , 2004, 32, 681.	4.4	122
105	Holocene vegetation and climate history on a continental-oceanic transect in northern Fennoscandia based on pollen and plant macrofossils. <i>Boreas</i> , 2004, 33, 211-223.	2.4	13
106	Holocene vegetation and climate history on a continental-oceanic transect in northern Fennoscandia based on pollen and plant macrofossils. <i>Boreas</i> , 2004, 33, 211-223.	2.4	103
107	Post-glacial vegetation reconstruction and a possible 8200 cal. yr BP event from the low arctic of continental Nunavut, Canada. <i>Journal of Quaternary Science</i> , 2003, 18, 621-629.	2.1	25
108	A 11,000yr palaeotemperature reconstruction from the southern boreal zone in Finland. <i>Quaternary Science Reviews</i> , 2003, 22, 541-554.	3.0	187

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109	Quaternary pollen analysis: recent progress in palaeoecology and palaeoclimatology. <i>Progress in Physical Geography</i> , 2003, 27, 548-579.	3.2	121
110	Rapid climatic changes during the Greenland stadial 1 (Younger Dryas) to early Holocene transition on the Norwegian Barents Sea coast. <i>Boreas</i> , 2002, 31, 215-225.	2.4	8
111	Changes of treelines and alpine vegetation in relation to post-glacial climate dynamics in northern Fennoscandia based on pollen and chironomid records. <i>Journal of Quaternary Science</i> , 2002, 17, 287-301.	2.1	144
112	Holocene Climate Reconstructions from the Fennoscandian Tree-Line Area Based on Pollen Data from Toskaljavi. <i>Quaternary Research</i> , 2002, 57, 191-199.	1.7	165
113	Rapid climatic changes during the Greenland stadial 1 (Younger Dryas) to early Holocene transition on the Norwegian Barents Sea coast. <i>Boreas</i> , 2002, 31, 215-225.	2.4	44
114	July mean temperature and annual precipitation trends during the Holocene in the Fennoscandian tree-line area: pollen-based climate reconstructions. <i>Holocene</i> , 2001, 11, 527-539.	1.7	333
115	Late-Holocene shore displacement of the Finnish south coast: diatom, litho- and chemostratigraphic evidence from three isolation basins. <i>Boreas</i> , 2000, 29, 219-231.	2.4	19
116	Title is missing!. <i>Journal of Paleolimnology</i> , 2000, 24, 69-79.	1.6	58
117	Late-Holocene shore displacement of the Finnish south coast: diatom, litho- and chemostratigraphic evidence from three isolation basins. <i>Boreas</i> , 2000, 29, 219-231.	2.4	5
118	Holocene vegetational and limnological changes in the Fennoscandian tree-line area as documented by pollen and diatom records from Lake Tsuolbmajavi, Finland. <i>Ecoscience</i> , 1999, 6, 621-635.	1.4	85
119	Title is missing!. <i>Journal of Paleolimnology</i> , 1998, 19, 385-398.	1.6	9
120	Postglacial trends in palynological richness in the northern Fennoscandian tree-line area and their ecological interpretation. <i>Holocene</i> , 1998, 8, 43-53.	1.7	62
121	A long-term record of human impacts on an urban ecosystem in the sediments of T <span>ä</span> <span>ä</span> <span>l</span> <span>ä</span> <span>n</span> <span>l</span> <span>a</span> <span>h</span> <span>t</span> <span>i</span> Bay in Helsinki, Finland. <i>Environmental Conservation</i> , 1997, 24, 326-337.	1.3	17
122	The long-term development of urban vegetation in Helsinki, Finland: A pollen diagram from T <span>ä</span> <span>ä</span> <span>l</span> <span>ä</span> <span>n</span> <span>l</span> <span>a</span> <span>h</span> <span>t</span> <span>i</span> . <i>Vegetation History and Archaeobotany</i> , 1997, 6, 91-103.	2.1	10