

# Ari Venäläinen

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,024  
citations

218592

26  
h-index

254106

43  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial interpolation of monthly climate data for Finland: comparing the performance of kriging and generalized additive models. <i>Theoretical and Applied Climatology</i> , 2013, 112, 99-111.	1.3	145
2	Seasonal soil moisture and drought occurrence in Europe in CMIP5 projections for the 21st century. <i>Climate Dynamics</i> , 2018, 50, 1177-1192.	1.7	137
3	Climate change induces multiple risks to boreal forests and forestry in Finland: A literature review. <i>Global Change Biology</i> , 2020, 26, 4178-4196.	4.2	123
4	Annual and seasonal mean temperatures in Finland during the last 160 years based on gridded temperature data. <i>International Journal of Climatology</i> , 2010, 30, 2247-2256.	1.5	99
5	Trends in phenology of <i>Betula pubescens</i> across the boreal zone in Finland. <i>International Journal of Biometeorology</i> , 2008, 52, 251-259.	1.3	73
6	Projections for the duration and degree days of the thermal growing season in Europe derived from <sc>CMIP5</sc> model output. <i>International Journal of Climatology</i> , 2016, 36, 3039-3055.	1.5	70
7	Meteorological data for agricultural applications. <i>Physics and Chemistry of the Earth</i> , 2002, 27, 1045-1050.	1.2	67
8	Temporal variations and change in forest fire danger in Europe for 1960–2012. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1477-1490.	1.5	66
9	Impact of stand structure on surface fire ignition potential in <i>Picea abies</i> and <i>Pinus sylvestris</i> forests in southern Finland. <i>Canadian Journal of Forest Research</i> , 2005, 35, 410-420.	0.8	65
10	Influence of clear-cutting on the risk of wind damage at forest edges. <i>Forest Ecology and Management</i> , 2004, 203, 77-88.	1.4	60
11	Climate impact on suicide rates in Finland from 1971 to 2003. <i>International Journal of Biometeorology</i> , 2009, 53, 167-175.	1.3	59
12	Reviews and syntheses: Arctic fire regimes and emissions in the 21st century. <i>Biogeosciences</i> , 2021, 18, 5053-5083.	1.3	59
13	Production of the Finnish Wind Atlas. <i>Wind Energy</i> , 2013, 16, 19-35.	1.9	57
14	Effect of mild winter events on soil water content beneath snowpack. <i>Cold Regions Science and Technology</i> , 2008, 51, 56-67.	1.6	49
15	Risk of large-scale fires in boreal forests of Finland under changing climate. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 239-253.	1.5	46
16	Boreal and subarctic soils under climatic change. <i>Global and Planetary Change</i> , 2011, 79, 37-47.	1.6	42
17	Heavy snow loads in Finnish forests respond regionally asymmetrically to projected climate change. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2259-2271.	1.5	41
18	Temporal and Spatial Change in Diameter Growth of Boreal Scots Pine, Norway Spruce, and Birch under Recent-Generation (CMIP5) Global Climate Model Projections for the 21st Century. <i>Forests</i> , 2018, 9, 118.	0.9	38

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19	The influence of natural conditions on the spatial variation of climate in Lapland, northern Finland. <i>International Journal of Climatology</i> , 2003, 23, 1011-1022.	1.5	37
20	Combined occurrence of wind, snow loading and soil frost with implications for risks to forestry in Finland under the current and changing climatic conditions. <i>Silva Fennica</i> , 2011, 45, .	0.5	36
21	Climate change impacts on forest fire potential in boreal conditions in Finland. <i>Climatic Change</i> , 2010, 103, 383-398.	1.7	34
22	Homogenization and trend analysis of monthly mean and maximum wind speed time series in Finland, 1959–2015. <i>International Journal of Climatology</i> , 2017, 37, 4803-4813.	1.5	34
23	Moisture dynamics of moss-dominated surface fuel in relation to the structure of <i>Picea abies</i> and <i>Pinus sylvestris</i> stands. <i>Forest Ecology and Management</i> , 2006, 226, 189-198.	1.4	31
24	Simulations of the influence of clear-cutting on the risk of wind damage on a regional scale over a 20-year period. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2247-2258.	0.8	30
25	Simulations of the influence of forest management on wind climate on a regional scale. <i>Agricultural and Forest Meteorology</i> , 2004, 123, 149-158.	1.9	29
26	The Influence of Climate Warming on Soil Frost on Snow-Free Surfaces in Finland. <i>Climatic Change</i> , 2001, 50, 111-128.	1.7	28
27	Assessment of forest fire danger in a boreal forest environment: description and evaluation of the operational system applied in Finland. <i>Meteorological Applications</i> , 2014, 21, 879-887.	0.9	28
28	Impacts of climate change on the risk of snow-induced forest damage in Finland. <i>Climatic Change</i> , 2010, 99, 193-209.	1.7	26
29	Projected Changes in European and North Atlantic Seasonal Wind Climate Derived from CMIP5 Simulations. <i>Journal of Climate</i> , 2019, 32, 6467-6490.	1.2	26
30	Potential for extreme loss in high-latitude Earth surface processes due to climate change. <i>Geophysical Research Letters</i> , 2014, 41, 3914-3924.	1.5	25
31	THE SPATIAL VARIATION OF LONG-TERM MEAN GLOBAL RADIATION IN FINLAND. <i>International Journal of Climatology</i> , 1997, 17, 415-426.	1.5	24
32	Latent Heat Flux from Small Sheltered Lakes. <i>Boundary-Layer Meteorology</i> , 1998, 86, 355-377.	1.2	24
33	Effects of cambial age, clone and climatic factors on ring width and ring density in Norway spruce ( <i>Picea abies</i> ) in southeastern Finland. <i>Forest Ecology and Management</i> , 2012, 263, 9-16.	1.4	22
34	The 10-Year Return Levels of Maximum Wind Speeds under Frozen and Unfrozen Soil Forest Conditions in Finland. <i>Climate</i> , 2019, 7, 62.	1.2	21
35	Estimation of Surface Solar Global Radiation from NOAA AVHRR Data in High Latitudes. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 1706-1719.	1.7	20
36	Effects of water temperature on year-class strengths and growth patterns of pikeperch (Sander) <i>Tj ETQq0 0 0 rgBT /Qverlock,10 Tf 50 6</i>	0.7	20

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37	Communicating the amount of windstorm induced forest damage by the maximum wind gust speed in Finland. <i>Advances in Science and Research</i> , 0, 16, 31-37.	1.0	20
38	Dielectric constant time stability of glacial till at a clear-cut site. <i>Geoderma</i> , 2007, 141, 311-319.	2.3	19
39	Temporal and spatial occurrence of strong winds and large snow load amounts in Finland during 1961-2000. <i>Silva Fennica</i> , 2008, 42, .	0.5	18
40	Estimation of the high-spatial-resolution variability in extreme wind speeds for forestry applications. <i>Earth System Dynamics</i> , 2017, 8, 529-545.	2.7	17
41	Projected decrease in wintertime bearing capacity on different forest and soil types in Finland under a warming climate. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1611-1631.	1.9	17
42	Estimation of winter road maintenance costs using climate data. <i>Meteorological Applications</i> , 2003, 10, 69-73.	0.9	15
43	Effects of forest management and harvesting intensity on the timber supply from Finnish forests in a changing climate. <i>Canadian Journal of Forest Research</i> , 2018, 48, 1124-1134.	0.8	15
44	The use of numerical weather forecast model predictions as a source of data for irrigation modelling. <i>Meteorological Applications</i> , 2005, 12, 307.	0.9	14
45	Analysis of the meteorological capacity for early warnings in Malawi and Zambia. <i>Climate and Development</i> , 2016, 8, 190-196.	2.2	13
46	Features of Tajikistan's past and future climate. <i>International Journal of Climatology</i> , 2017, 37, 4949-4961.	1.5	12
47	Estimation of road salt use based on winter air temperature. <i>Meteorological Applications</i> , 2001, 8, 333-338.	0.9	10
48	Comparing regional risks in producing turnip rape and oilseed rape “ Today in light of long-term datasets. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2009, 59, 118-128.	0.3	9
49	Recent meteorological and marine studies to support nuclear power plant safety in Finland. <i>Energy</i> , 2018, 165, 1102-1118.	4.5	9
50	Effects of spacing and genetic entry on radial growth and ring density development in Scots pine ( <i>Pinus sylvestris</i> L.). <i>Annals of Forest Science</i> , 2011, 68, 1233-1243.	0.8	8
51	Effects of CMIP5 Projections on Volume Growth, Carbon Stock and Timber Yield in Managed Scots Pine, Norway Spruce and Silver Birch Stands under Southern and Northern Boreal Conditions. <i>Forests</i> , 2018, 9, 208.	0.9	7
52	The Effect of Scale, Climate and Environment on Species Richness and Spatial Distribution of Finnish Birds. <i>Annales Zoologici Fennici</i> , 2011, 48, 257-274.	0.2	5
53	Statistical downscaling of a climate simulation of the last glacial cycle: temperature and precipitation over Northern Europe. <i>Climate of the Past</i> , 2014, 10, 1489-1500.	1.3	5
54	The verification of seasonal precipitation forecasts for early warning in Zambia and Malawi. <i>Advances in Science and Research</i> , 2015, 12, 31-36.	1.0	5

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55	The utility of fused airborne laser scanning and multispectral data for improved wind damage risk assessment over a managed forest landscape in Finland. <i>Annals of Forest Science</i> , 2020, 77, 1.	0.8	4
56	Preparing for peat production seasons in Finland and experimenting with long range impact forecasting. <i>Climate Services</i> , 2019, 14, 37-50.	1.0	3
57	Bias-adjusted seasonal forecasts of soil moisture for forestry applications in Finland. <i>Advances in Science and Research</i> , 0, 17, 23-27.	1.0	3