

Juha Aalto

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

3,454
citations

172386

29
h-index

155592

55
g-index

67
all docs

67
docs citations

67
times ranked

4271
citing authors

#	ARTICLE	IF	CITATIONS
1	Rainfall erosivity in Europe. <i>Science of the Total Environment</i> , 2015, 511, 801-814.	3.9	443
2	Forest microclimates and climate change: Importance, drivers and future research agenda. <i>Global Change Biology</i> , 2021, 27, 2279-2297.	4.2	330
3	Degrading permafrost puts Arctic infrastructure at risk by mid-century. <i>Nature Communications</i> , 2018, 9, 5147.	5.8	327
4	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
5	Mapping monthly rainfall erosivity in Europe. <i>Science of the Total Environment</i> , 2017, 579, 1298-1315.	3.9	142
6	New climatic classification of Nepal. <i>Theoretical and Applied Climatology</i> , 2016, 125, 799-808.	1.3	140
7	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	4.2	122
8	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	4.2	113
9	New gridded daily climatology of Finland: Permutation-based uncertainty estimates and temporal trends in climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3807-3823.	1.2	111
10	Soil moisture's underestimated role in climate change impact modelling in low-energy systems. <i>Global Change Biology</i> , 2013, 19, 2965-2975.	4.2	110
11	Comparing temperature data sources for use in species distribution models: From in-situ logging to remote sensing. <i>Global Ecology and Biogeography</i> , 2019, 28, 1578-1596.	2.7	104
12	Statistical Forecasting of Current and Future Circum-Arctic Ground Temperatures and Active Layer Thickness. <i>Geophysical Research Letters</i> , 2018, 45, 4889-4898.	1.5	83
13	Statistical upscaling of ecosystem CO ₂ fluxes across the terrestrial tundra and boreal domain: Regional patterns and uncertainties. <i>Global Change Biology</i> , 2021, 27, 4040-4059.	4.2	83
14	Vegetation Mediates Soil Temperature and Moisture in Arctic-Alpine Environments. <i>Arctic, Antarctic, and Alpine Research</i> , 2013, 45, 429-439.	0.4	70
15	New high-resolution estimates of the permafrost thermal state and hydrothermal conditions over the Northern Hemisphere. <i>Earth System Science Data</i> , 2022, 14, 865-884.	3.7	68
16	Monthly Rainfall Erosivity: Conversion Factors for Different Time Resolutions and Regional Assessments. <i>Water (Switzerland)</i> , 2016, 8, 119.	1.2	60
17	Reviews and syntheses: Arctic fire regimes and emissions in the 21st century. <i>Biogeosciences</i> , 2021, 18, 5053-5083.	1.3	59
18	ForestTemp – Sub-canopy microclimate temperatures of European forests. <i>Global Change Biology</i> , 2021, 27, 6307-6319.	4.2	57

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19	Fine-scale tundra vegetation patterns are strongly related to winter thermal conditions. <i>Nature Climate Change</i> , 2020, 10, 1143-1148.	8.1	52
20	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. <i>Scientific Data</i> , 2019, 6, 190037.	2.4	51
21	Revealing topoclimatic heterogeneity using meteorological station data. <i>International Journal of Climatology</i> , 2017, 37, 544-556.	1.5	47
22	Bayesian inference for the Brown–Resnick process, with an application to extreme low temperatures. <i>Annals of Applied Statistics</i> , 2016, 10, .	0.5	46
23	Snow cover trends in Finland over 1961–2014 based on gridded snow depth observations. <i>International Journal of Climatology</i> , 2019, 39, 3147-3159.	1.5	42
24	Contrasting characteristics, changes, and linkages of permafrost between the Arctic and the Third Pole. <i>Earth-Science Reviews</i> , 2022, 230, 104042.	4.0	42
25	Biogeophysical controls on soil-atmosphere thermal differences: implications on warming Arctic ecosystems. <i>Environmental Research Letters</i> , 2018, 13, 074003.	2.2	41
26	Maintaining forest cover to enhance temperature buffering under future climate change. <i>Science of the Total Environment</i> , 2022, 810, 151338.	3.9	39
27	Lost at high latitudes: Arctic and endemic plants under threat as climate warms. <i>Diversity and Distributions</i> , 2019, 25, 809-821.	1.9	38
28	New insights into the environmental factors controlling the ground thermal regime across the Northern Hemisphere: a comparison between permafrost and non-permafrost areas. <i>Cryosphere</i> , 2019, 13, 693-707.	1.5	34
29	Water as a resource, stress and disturbance shaping tundra vegetation. <i>Oikos</i> , 2019, 128, 811-822.	1.2	34
30	Statistical modelling predicts almost complete loss of major periglacial processes in Northern Europe by 2100. <i>Nature Communications</i> , 2017, 8, 515.	5.8	31
31	High potential for loss of permafrost landforms in a changing climate. <i>Environmental Research Letters</i> , 2020, 15, 104065.	2.2	28
32	Integrating climate and local factors for geomorphological distribution models. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 1729-1740.	1.2	26
33	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
34	Consistent trait–environment relationships within and across tundra plant communities. <i>Nature Ecology and Evolution</i> , 2021, 5, 458-467.	3.4	25
35	The meso-scale drivers of temperature extremes in high-latitude Fennoscandia. <i>Climate Dynamics</i> , 2014, 42, 237-252.	1.7	23
36	Worldwide Survey of Awareness and Needs Concerning Reanalyses and Respondents Views on Climate Services. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 1461-1473.	1.7	23

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37	The direct and indirect effects of watershed land use and soil type on stream water metal concentrations. <i>Water Resources Research</i> , 2016, 52, 7711-7725.	1.7	23
38	Dwarf Shrubs Impact Tundra Soils: Drier, Colder, and Less Organic Carbon. <i>Ecosystems</i> , 2021, 24, 1378-1392.	1.6	23
39	Fine-grained climate velocities reveal vulnerability of protected areas to climate change. <i>Scientific Reports</i> , 2020, 10, 1678.	1.6	21
40	Reply to the comment on "Rainfall erosivity in Europe" by Auerswald et al.. <i>Science of the Total Environment</i> , 2015, 532, 853-857.	3.9	19
41	Snow is an important control of plant community functional composition in oroarctic tundra. <i>Oecologia</i> , 2019, 191, 601-608.	0.9	15
42	Significant shallow depth soil warming over Russia during the past 40 years. <i>Global and Planetary Change</i> , 2021, 197, 103394.	1.6	13
43	Features of Tajikistan's past and future climate. <i>International Journal of Climatology</i> , 2017, 37, 4949-4961.	1.5	12
44	Environmental Controls of InSAR-Based Periglacial Ground Dynamics in a Sub-Arctic Landscape. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006175.	1.0	12
45	Microclimate temperature variations from boreal forests to the tundra. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109037.	1.9	10
46	High-latitude EU Habitats Directive species at risk due to climate change and land use. <i>Global Ecology and Conservation</i> , 2021, 28, e01664.	1.0	9
47	High-resolution analysis of observed thermal growing season variability over northern Europe. <i>Climate Dynamics</i> , 0, , 1.	1.7	9
48	Can Topographic Variation in Climate Buffer against Climate Change-Induced Population Declines in Northern Forest Birds?. <i>Diversity</i> , 2020, 12, 56.	0.7	8
49	Cryogenic land surface processes shape vegetation biomass patterns in northern European tundra. <i>Communications Earth & Environment</i> , 2021, 2, .	2.6	8
50	Predicting Spatial Patterns of Sindbis Virus (SINV) Infection Risk in Finland Using Vector, Host and Environmental Data. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7064.	1.2	7
51	Geomorphological processes shape plant community traits in the Arctic. <i>Global Ecology and Biogeography</i> , 2022, 31, 1381-1398.	2.7	7
52	Decadal Changes in Soil and Atmosphere Temperature Differences Linked With Environment Shifts Over Northern Eurasia. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005865.	1.0	6
53	Spatial modelling of stream water quality along an urban-rural gradient. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2015, 97, 819-834.	0.6	5
54	Modelling spatio-temporal soil moisture dynamics in mountain tundra. <i>Hydrological Processes</i> , 2022, 36, .	1.1	5

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55	Observing diatom diversity and community composition along environmental gradients in subarctic mountain ponds. <i>Freshwater Biology</i> , 2022, 67, 731-741.	1.2	4
56	Observed Decrease in Soil and Atmosphere Temperature Coupling in Recent Decades Over Northern Eurasia. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092500.	1.5	1