

# Jan Hjort

## List of Publications by Citations

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72  
papers

2,414  
citations

30  
h-index

46  
g-index

83  
ext. papers

2,995  
ext. citations

5.3  
avg, IF

5.31  
L-index

#	Paper	IF	Citations
72	The thermal state of permafrost in the nordic area during the international polar year 2007-2009. <i>Permafrost and Periglacial Processes</i> , <b>2010</b> , 21, 156-181	4.2	210
71	Degrading permafrost puts Arctic infrastructure at risk by mid-century. <i>Nature Communications</i> , <b>2018</b> , 9, 5147	17.4	181
70	Why geodiversity matters in valuing nature's stage. <i>Conservation Biology</i> , <b>2015</b> , 29, 630-9	6	123
69	Recent vegetation changes at the high-latitude tree line ecotone are controlled by geomorphological disturbance, productivity and diversity. <i>Global Ecology and Biogeography</i> , <b>2010</b> , 19, 810-821	6.1	101
68	Global variation in the beta diversity of lake macrophytes is driven by environmental heterogeneity rather than latitude. <i>Journal of Biogeography</i> , <b>2017</b> , 44, 1758-1769	4.1	82
67	Geodiversity of high-latitude landscapes in northern Finland. <i>Geomorphology</i> , <b>2010</b> , 115, 109-116	4.3	81
66	Inclusion of explicit measures of geodiversity improve biodiversity models in a boreal landscape. <i>Biodiversity and Conservation</i> , <b>2012</b> , 21, 3487-3506	3.4	65
65	Permafrost Map for Norway, Sweden and Finland. <i>Permafrost and Periglacial Processes</i> , <b>2017</b> , 28, 359-378	4.2	64
64	Inferring the effects of potential dispersal routes on the metacommunity structure of stream insects: as the crow flies, as the fish swims or as the fox runs?. <i>Journal of Animal Ecology</i> , <b>2015</b> , 84, 1342-1347	4.7	58
63	Introducing accessibility analysis in mapping cultural ecosystem services. <i>Ecological Indicators</i> , <b>2016</b> , 66, 416-427	5.8	56
62	Integrating dispersal proxies in ecological and environmental research in the freshwater realm. <i>Environmental Reviews</i> , <b>2017</b> , 25, 334-349	4.5	55
61	Local environment and space drive multiple facets of stream macroinvertebrate beta diversity. <i>Journal of Biogeography</i> , <b>2018</b> , 45, 2744-2754	4.1	55
60	Modelling native and alien vascular plant species richness: At which scales is geodiversity most relevant?. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 763-776	6.1	52
59	Combining geodiversity with climate and topography to account for threatened species richness. <i>Conservation Biology</i> , <b>2017</b> , 31, 364-375	6	49
58	Statistical Forecasting of Current and Future Circum-Arctic Ground Temperatures and Active Layer Thickness. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4889-4898	4.9	48
57	Opinion: To advance sustainable stewardship, we must document not only biodiversity but geodiversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16155-16158	11.5	48
56	Interaction of geomorphic and ecologic features across altitudinal zones in a subarctic landscape. <i>Geomorphology</i> , <b>2009</b> , 112, 324-333	4.3	41

55	A comparison of predictive methods in modelling the distribution of periglacial landforms in Finnish Lapland. <i>Earth Surface Processes and Landforms</i> , <b>2008</b> , 33, 2241-2254	3.7	41
54	Generalized linear modelling in periglacial studies: terrain parameters and patterned ground. <i>Permafrost and Periglacial Processes</i> , <b>2004</b> , 15, 327-338	4.2	38
53	Land use impacts on trace metal concentrations of suburban stream sediments in the Helsinki region, Finland. <i>Science of the Total Environment</i> , <b>2013</b> , 456-457, 222-30	10.2	37
52	The role of geodiversity in providing ecosystem services at broad scales. <i>Ecological Indicators</i> , <b>2018</b> , 91, 47-56	5.8	36
51	Statistical consensus methods for improving predictive geomorphology maps. <i>Computers and Geosciences</i> , <b>2009</b> , 35, 615-625	4.5	36
50	Effects of sample size on the accuracy of geomorphological models. <i>Geomorphology</i> , <b>2008</b> , 102, 341-350	4.3	35
49	Fine-Scale Exposure to Allergenic Pollen in the Urban Environment: Evaluation of Land Use Regression Approach. <i>Environmental Health Perspectives</i> , <b>2016</b> , 124, 619-26	8.4	35
48	Modelling patterned ground distribution in Finnish Lapland: an integration of topographical, ground and remote sensing information. <i>Geografiska Annaler, Series A: Physical Geography</i> , <b>2006</b> , 88, 19-29	1.1	33
47	A review of selection-based tests of abiotic surrogates for species representation. <i>Conservation Biology</i> , <b>2015</b> , 29, 668-79	6	32
46	Can geodiversity be predicted from space?. <i>Geomorphology</i> , <b>2012</b> , 153-154, 74-80	4.3	32
45	Geomorphological factors predict water quality in boreal rivers. <i>Earth Surface Processes and Landforms</i> , <b>2015</b> , 40, 1989-1999	3.7	31
44	Landscape scale determinants of periglacial features in subarctic Finland: a grid-based modelling approach. <i>Permafrost and Periglacial Processes</i> , <b>2007</b> , 18, 115-127	4.2	31
43	Circumpolar permafrost maps and geohazard indices for near-future infrastructure risk assessments. <i>Scientific Data</i> , <b>2019</b> , 6, 190037	8.2	31
42	Scale matters: A multi-resolution study of the determinants of patterned ground activity in subarctic Finland. <i>Geomorphology</i> , <b>2006</b> , 80, 282-294	4.3	30
41	Mapping supply and demand of a provisioning ecosystem service across Europe. <i>Ecological Indicators</i> , <b>2019</b> , 103, 520-529	5.8	26
40	Spatial relationship between biodiversity and geodiversity across a gradient of land-use intensity in high-latitude landscapes. <i>Landscape Ecology</i> , <b>2017</b> , 32, 1049-1063	4.3	25
39	Spatial prediction of urban and rural temperatures using statistical methods. <i>Theoretical and Applied Climatology</i> , <b>2011</b> , 106, 139-152	3	25
38	Predicting occupancy and abundance by niche position, niche breadth and body size in stream organisms. <i>Oecologia</i> , <b>2018</b> , 186, 205-216	2.9	23

37	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> , <b>2019</b> , 13, 693-707	5.5	21
36	Landforms contribute to plant biodiversity at alpha, beta and gamma levels. <i>Journal of Biogeography</i> , <b>2019</b> , 46, 1699-1710	4.1	21
35	Geography of global change and species richness in the North. <i>Environmental Reviews</i> , <b>2017</b> , 25, 184-192	4.5	21
34	Correlates of different facets and components of beta diversity in stream organisms. <i>Oecologia</i> , <b>2019</b> , 191, 919-929	2.9	20
33	Extreme urban-rural temperatures in the coastal city of Turku, Finland: Quantification and visualization based on a generalized additive model. <i>Science of the Total Environment</i> , <b>2016</b> , 569-570, 507-517	10.2	20
32	Hierarchical decomposition of trait patterns of macroinvertebrate communities in subarctic streams. <i>Freshwater Science</i> , <b>2016</b> , 35, 1032-1048	2	19
31	2.6 Statistical Methods for Geomorphic Distribution Modeling <b>2013</b> , 59-73		19
30	Does catchment geodiversity foster stream biodiversity?. <i>Landscape Ecology</i> , <b>2019</b> , 34, 2469-2485	4.3	18
29	Impacts of permafrost degradation on infrastructure. <i>Nature Reviews Earth &amp; Environment</i> , <b>2022</b> , 3, 24-38	10.2	18
28	Is catchment geodiversity a useful surrogate of aquatic plant species richness?. <i>Journal of Biogeography</i> , <b>2019</b> , 46, 1711-1722	4.1	17
27	Novel theoretical insights into geomorphic process-environment relationships using simulated response curves. <i>Earth Surface Processes and Landforms</i> , <b>2011</b> , 36, 363-371	3.7	17
26	Downscaling of coarse-grained geomorphological data. <i>Earth Surface Processes and Landforms</i> , <b>2008</b> , 33, 75-89	3.7	17
25	Geodiversity-biodiversity relationship needs more empirical evidence. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 2-3	12.3	17
24	Effects of scale on modelling the urban heat island in Turku, SW Finland. <i>Climate Research</i> , <b>2012</b> , 55, 105-118	11.8	16
23	The added value of geodiversity indices in explaining variation of stream macroinvertebrate diversity. <i>Ecological Indicators</i> , <b>2018</b> , 94, 420-429	5.8	14
22	Assessing spatial uncertainty in predictive geomorphological mapping: A multi-modelling approach. <i>Computers and Geosciences</i> , <b>2010</b> , 36, 355-361	4.5	14
21	Species richness and taxonomic distinctness of lake macrophytes along environmental gradients in two continents. <i>Freshwater Biology</i> , <b>2017</b> , 62, 1194-1206	3.1	13
20	Urbanity as a determinant of exposure to grass pollen in Helsinki Metropolitan area, Finland. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186348	3.7	13

19	Transferability of geomorphological distribution models: Evaluation using solifluction features in subarctic and Arctic regions. <i>Geomorphology</i> , <b>2014</b> , 204, 165-176	4.3	13
18	Average niche breadths of species in lake macrophyte communities respond to ecological gradients variably in four regions on two continents. <i>Oecologia</i> , <b>2017</b> , 184, 219-235	2.9	12
17	Current climate overrides historical effects on species richness and range size of freshwater plants in Europe and North America. <i>Journal of Ecology</i> , <b>2020</b> , 108, 1262-1275	6	11
16	Different species trait groups of stream diatoms show divergent responses to spatial and environmental factors in a subarctic drainage basin. <i>Hydrobiologia</i> , <b>2018</b> , 816, 213-230	2.4	11
15	Which Environmental Factors Determine Recent Cryoturbation and Solifluction Activity in a Subarctic Landscape? A Comparison between Active and Inactive Features. <i>Permafrost and Periglacial Processes</i> , <b>2014</b> , 25, 136-143	4.2	11
14	Periglacial distribution modelling with a boosting method. <i>Permafrost and Periglacial Processes</i> , <b>2009</b> , 20, 15-25	4.2	11
13	Snow to Precipitation Ratio Controls Catchment Storage and Summer Flows in Boreal Headwater Catchments. <i>Water Resources Research</i> , <b>2019</b> , 55, 4096-4109	5.4	10
12	Effects of scale and data source in periglacial distribution modelling in a high arctic environment, western Svalbard. <i>Permafrost and Periglacial Processes</i> , <b>2010</b> , 21, 345-354	4.2	10
11	High potential for loss of permafrost landforms in a changing climate. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 104065	6.2	10
10	Changes in the functional features of macrophyte communities and driving factors across a 70-year period. <i>Hydrobiologia</i> , <b>2020</b> , 847, 3811-3827	2.4	9
9	Spatio-temporal aspects of the environmental factors affecting water quality in boreal rivers. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	7
8	Highly variable species distribution models in a subarctic stream metacommunity: Patterns, mechanisms and implications. <i>Freshwater Biology</i> , <b>2018</b> , 63, 33-47	3.1	7
7	Importance of spatial scale in structuring emergent lake vegetation across environmental gradients and scales: GIS-based approach. <i>Ecological Indicators</i> , <b>2016</b> , 60, 1164-1172	5.8	6
6	Can abundance of geomorphological features be predicted using presence-absence data?. <i>Earth Surface Processes and Landforms</i> , <b>2008</b> , 33, 741-750	3.7	6
5	New high-resolution estimates of the permafrost thermal state and hydrothermal conditions over the Northern Hemisphere		6
4	New high-resolution estimates of the permafrost thermal state and hydrothermal conditions over the Northern Hemisphere. <i>Earth System Science Data</i> , <b>2022</b> , 14, 865-884	10.5	4
3	Deriving a Frozen Area Fraction From Metop ASCAT Backscatter Based on Sentinel-1. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 6008-6019	8.1	2
2	Accessibility analysis in evaluating exposure risk to an ecosystem disservice. <i>Applied Geography</i> , <b>2019</b> , 113, 102098	4.4	2

- 1 Environmental Controls of InSAR-Based Periglacial Ground Dynamics in a Sub-Arctic Landscape.  
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