Janne Alahuhta

List of Publications by Year in descending order

62 papers	2,363 citations	172443 29 h-index	223791 46 g-index
66 all docs	66 docs citations	66 times ranked	2486 citing authors

#	Article	IF	Citations
1	Lakes in the era of global change: moving beyond singleâ€lake thinking in maintaining biodiversity and ecosystem services. Biological Reviews, 2021, 96, 89-106.	10.4	142
2	Global variation in the beta diversity of lake macrophytes is driven by environmental heterogeneity rather than latitude. Journal of Biogeography, 2017, 44, 1758-1769.	3.0	127
3	Metacommunity ecology meets biogeography: effects of geographical region, spatial dynamics and environmental filtering on community structure in aquatic organisms. Oecologia, 2017, 183, 121-137.	2.0	107
4	Integrating dispersal proxies in ecological and environmental research in the freshwater realm. Environmental Reviews, 2017, 25, 334-349.	4.5	88
5	Biotic interactions hold the key to understanding metacommunity organisation. Ecography, 2020, 43, 1180-1190.	4.5	86
6	Introducing accessibility analysis in mapping cultural ecosystem services. Ecological Indicators, 2016, 66, 416-427.	6.3	85
7	Spatial extent, regional specificity and metacommunity structuring in lake macrophytes. Journal of Biogeography, 2013, 40, 1572-1582.	3.0	84
8	Climate change and the future distributions of aquatic macrophytes across boreal catchments. Journal of Biogeography, 2011, 38, 383-393.	3.0	81
9	Catchment properties and the photosynthetic trait composition of freshwater plant communities. Science, 2019, 366, 878-881.	12.6	80
10	A comparative analysis of metacommunity types in the freshwater realm. Ecology and Evolution, 2015, 5, 1525-1537.	1.9	70
11	Environmental and spatial correlates of community composition, richness and status of boreal lake macrophytes. Ecological Indicators, 2013, 32, 172-181.	6.3	66
12	The role of geodiversity in providing ecosystem services at broad scales. Ecological Indicators, 2018, 91, 47-56.	6.3	62
13	Geographic patterns of lake macrophyte communities and species richness at regional scale. Journal of Vegetation Science, 2015, 26, 564-575.	2.2	61
14	Understanding environmental change through the lens of trait-based, functional, and phylogenetic biodiversity in freshwater ecosystems. Environmental Reviews, 2019, 27, 263-273.	4.5	57
15	Global patterns in the metacommunity structuring of lake macrophytes: regional variations and driving factors. Oecologia, 2018, 188, 1167-1182.	2.0	55
16	Response of macrophyte communities and status metrics to natural gradients and land use in boreal lakes. Aquatic Botany, 2012, 103, 106-114.	1.6	54
17	Mapping supply and demand of a provisioning ecosystem service across Europe. Ecological Indicators, 2019, 103, 520-529.	6.3	53
18	Predicting beta diversity of terrestrial and aquatic beetles using ecogeographical variables: insights from the replacement and richness difference components. Journal of Biogeography, 2019, 46, 304-315.	3.0	48

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19	Species sorting determines variation in the community composition of common and rare macrophytes at various spatial extents. Ecological Complexity, 2014, 20, 61-68.	2.9	47
20	Geodiversityâ€“biodiversity relationship needs more empirical evidence. Nature Ecology and Evolution, 2020, 4, 2-3.	7.8	45
21	No biotic homogenisation across decades but consistent effects of landscape position and pH on macrophyte communities in boreal lakes. Ecography, 2020, 43, 294-305.	4.5	45
22	Landforms contribute to plant biodiversity at alpha, beta and gamma levels. Journal of Biogeography, 2019, 46, 1699-1710.	3.0	44
23	Variable response of functional macrophyte groups to lake characteristics, land use, and space: implications for bioassessment. Hydrobiologia, 2014, 737, 201-214.	2.0	43
24	Elements of regional beetle faunas: faunal variation and compositional breakpoints along climate, land cover and geographical gradients. Journal of Animal Ecology, 2015, 84, 427-441.	2.8	43
25	Macroecology of macrophytes in the freshwater realm: Patterns, mechanisms and implications. Aquatic Botany, 2021, 168, 103325.	1.6	42
26	Distance decay 2.0 â€“ A global synthesis of taxonomic and functional turnover in ecological communities. Global Ecology and Biogeography, 2022, 31, 1399-1421.	5.8	40
27	Global patterns and determinants of lake macrophyte taxonomic, functional and phylogenetic beta diversity. Science of the Total Environment, 2020, 723, 138021.	8.0	38
28	Untangling the assembly of macrophyte metacommunities by means of taxonomic, functional and phylogenetic beta diversity patterns. Science of the Total Environment, 2019, 693, 133616.	8.0	37
29	Spatial relationship between biodiversity and geodiversity across a gradient of land-use intensity in high-latitude landscapes. Landscape Ecology, 2017, 32, 1049-1063.	4.2	36
30	Phylogenetic diversity of regional beetle faunas at high latitudes: patterns, drivers and chance along ecological gradients. Biodiversity and Conservation, 2015, 24, 2751-2767.	2.6	30
31	Is catchment geodiversity a useful surrogate of aquatic plant species richness?. Journal of Biogeography, 2019, 46, 1711-1722.	3.0	30
32	Defining the ecological status of small forest lakes using multiple biological quality elements and palaeolimnological analysis. Fundamental and Applied Limnology, 2009, 175, 203-216.	0.7	28
33	Current climate overrides historical effects on species richness and range size of freshwater plants in Europe and North America. Journal of Ecology, 2020, 108, 1262-1275.	4.0	28
34	Geography of global change and species richness in the North. Environmental Reviews, 2017, 25, 184-192.	4.5	25
35	Environmental Characteristics and Anthropogenic Impact Jointly Modify Aquatic Macrophyte Species Diversity. Frontiers in Plant Science, 2018, 9, 1001.	3.6	24
36	Temporal beta diversity of lake plants is determined by concomitant changes in environmental factors across decades. Journal of Ecology, 2021, 109, 819-832.	4.0	23

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37	Regional and local determinants of macrophyte community compositions in high-latitude lakes of Finland. Hydrobiologia, 2018, 812, 99-114.	2.0	20
38	Changes in the functional features of macrophyte communities and driving factors across a 70-year period. Hydrobiologia, 2020, 847, 3811-3827.	2.0	20
39	Quantifying the relative importance of natural variables, human disturbance and spatial processes in ecological status indicators of boreal lakes. Ecological Indicators, 2016, 63, 240-248.	6.3	19
40	A comparative analysis reveals little evidence for niche conservatism in aquatic macrophytes among four areas on two continents. Oikos, 2017, 126, 136-148.	2.7	19
41	Species richness and taxonomic distinctness of lake macrophytes along environmental gradients in two continents. Freshwater Biology, 2017, 62, 1194-1206.	2.4	19
42	Species sorting drives variation of boreal lake and river macrophyte communities. Community Ecology, 2015, 16, 76-85.	0.9	18
43	Same species, same habitat preferences? The distribution of aquatic plants is not explained by the same predictors in lakes and streams. Freshwater Biology, 2020, 65, 878-892.	2.4	18
44	Average niche breadths of species in lake macrophyte communities respond to ecological gradients variably in four regions on two continents. Oecologia, 2017, 184, 219-235.	2.0	16
45	Elements of lake macrophyte metacommunity structure: Global variation and communityâ€environment relationships. Limnology and Oceanography, 2020, 65, 2883-2895.	3.1	16
46	A methodological guide to observe localâ€scale geodiversity for biodiversity research and management. Journal of Applied Ecology, 2022, 59, 1756-1768.	4.0	16
47	Environmental determinants of lake macrophyte communities in Baikal Siberia. Aquatic Sciences, 2020, 82, 1.	1.5	14
48	Multiple facets of macrophyte beta diversity are shaped by environmental factors, directional spatial processes, and connectivity across tropical floodplain lakes in the dry season. Hydrobiologia, 2021, 848, 3587-3602.	2.0	14
49	Palaeontology meets metacommunity ecology: the Maastrichtian dinosaur fossil record of North America as a case study. Palaeontology, 2021, 64, 335-357.	2.2	11
50	Quantifying alpha, beta and gamma geodiversity. Progress in Physical Geography, 2023, 47, 140-151.	3.2	11
51	Practical integration of river basin and land use planning: lessons learned from two Finnish case studies. Geographical Journal, 2010, 176, 319-333.	3.1	10
52	Knitting patterns of biodiversity, range size and body size in aquatic beetle faunas: significant relationships but slightly divergent drivers. Ecological Entomology, 2019, 44, 413-424.	2.2	10
53	Accessibility analysis in evaluating exposure risk to an ecosystem disservice. Applied Geography, 2019, 113, 102098.	3.7	8
54	Macroecology of ground beetles: Species richness, range size and body size show different geographical patterns across a climatically heterogeneous area. Journal of Biogeography, 2019, 46, 2548-2557.	3.0	8

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55	Responses of multiple facets of macroinvertebrate alpha diversity to eutrophication in floodplain lakes. Environmental Pollution, 2022, 306, 119410.	7.5	8
56	Rarity in freshwater vascular plants across Europe and North America: Patterns, mechanisms and future scenarios. Science of the Total Environment, 2021, 786, 147491.	8.0	7
57	Importance of spatial scale in structuring emergent lake vegetation across environmental gradients and scales: GIS-based approach. Ecological Indicators, 2016, 60, 1164-1172.	6.3	6
58	Historical contingency via priority effects counteracts environmental change on metacommunity dynamics across decades. Limnology and Oceanography, 2022, 67, .	3.1	6
59	Ecological determinants of Potamogeton taxa in glacial lakes: assemblage composition, species richness, and species-level approach. Aquatic Sciences, 2017, 79, 427-441.	1.5	5
60	Little evidence of range size conservatism in freshwater plants across two continents. Journal of Biogeography, 2021, 48, 1200-1212.	3.0	4
61	IsoÃ«tes sabatina (IsoÃ«taceae, Lycopodiopsida): Taxonomic distinctness and preliminary ecological insights. Aquatic Conservation: Marine and Freshwater Ecosystems, 0, , .	2.0	2
62	Patterns and mechanisms underlying ecoregion delineation in North American freshwater plants. Journal of Biogeography, 2022, 49, 142-155.	3.0	2