

Jani Heino

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257
papers

10,587
citations

58
h-index

91
g-index

274
ext. papers

12,959
ext. citations

4.7
avg. IF

7.09
L-index

#	Paper	IF	Citations
257	Seasonal variation in the metacommunity structure of benthic macroinvertebrates in a large river-connected floodplain lake. <i>Ecological Indicators</i> , 2022 , 136, 108662	5.8	1
256	Iron in boreal river catchments: Biogeochemical, ecological and management implications. <i>Science of the Total Environment</i> , 2022 , 805, 150256	10.2	1
255	Land conversion induced by urbanization leads to taxonomic and functional homogenization of a river macroinvertebrate metacommunity.. <i>Science of the Total Environment</i> , 2022 , 153940	10.2	2
254	Responses of multiple facets of macroinvertebrate alpha diversity to eutrophication in floodplain lakes.. <i>Environmental Pollution</i> , 2022 , 119410	9.3	0
253	Dispersal niche continuum index: a new quantitative metric for assessing the relative importance of dispersal versus niche processes in community assembly. <i>Ecography</i> , 2021 , 44, 370-379	6.5	7
252	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2021 ,	10	6
251	The importance of blue and green landscape connectivity for biodiversity in urban ponds. <i>Basic and Applied Ecology</i> , 2021 , 57, 129-129	3.2	3
250	Palaeontology meets metacommunity ecology: the Maastrichtian dinosaur fossil record of North America as a case study. <i>Palaeontology</i> , 2021 , 64, 335-357	2.9	3
249	Does trait-based joint species distribution modelling reveal the signature of competition in stream macroinvertebrate communities?. <i>Journal of Animal Ecology</i> , 2021 , 90, 1276-1287	4.7	1
248	The longest fragment drives fish beta diversity in fragmented river networks: Implications for river management and conservation. <i>Science of the Total Environment</i> , 2021 , 766, 144323	10.2	2
247	The role of environmental conditions, climatic factors and spatial processes in driving multiple facets of stream macroinvertebrate beta diversity in a climatically heterogeneous mountain region. <i>Ecological Indicators</i> , 2021 , 124, 107407	5.8	3
246	Multiple facets of macrophyte beta diversity are shaped by environmental factors, directional spatial processes, and connectivity across tropical floodplain lakes in the dry season. <i>Hydrobiologia</i> , 2021 , 848, 3587	2.4	3
245	Differential speciation rates, colonization time and niche conservatism affect community assembly across adjacent biogeographical regions. <i>Journal of Biogeography</i> , 2021 , 48, 2211-2225	4.1	3
244	Multi-scale biodiversity analyses identify the importance of continental watersheds in shaping lake zooplankton biogeography. <i>Journal of Biogeography</i> , 2021 , 48, 2298-2311	4.1	0
243	Stochasticity overrides deterministic processes in structuring macroinvertebrate communities in a plateau aquatic system. <i>Ecosphere</i> , 2021 , 12, e03675	3.1	3
242	Macroecology of macrophytes in the freshwater realm: Patterns, mechanisms and implications. <i>Aquatic Botany</i> , 2021 , 168, 103325	1.8	16
241	The drivers of multiple dimensions of stream macroinvertebrate beta diversity across a large montane landscape. <i>Limnology and Oceanography</i> , 2021 , 66, 226-236	4.8	9

240	Temporal beta diversity of lake plants is determined by concomitant changes in environmental factors across decades. <i>Journal of Ecology</i> , 2021 , 109, 819-832	6	9
239	Distance decay of benthic macroinvertebrate communities in a mountain river network: Do dispersal routes and dispersal ability matter?. <i>Science of the Total Environment</i> , 2021 , 758, 143630	10.2	5
238	Beta diversity of stream insects differs between boreal and subtropical regions, but land use does not generally cause biotic homogenization. <i>Freshwater Science</i> , 2021 , 40, 53-64	2	5
237	Scale-dependent patterns of metacommunity structuring in aquatic organisms across floodplain systems. <i>Journal of Biogeography</i> , 2021 , 48, 872-885	4.1	9
236	Damming affects riverine macroinvertebrate metacommunity dynamics: Insights from taxonomic and functional beta diversity. <i>Science of the Total Environment</i> , 2021 , 763, 142945	10.2	8
235	Anthropogenic disturbances alter the relationships between environmental heterogeneity and biodiversity of stream insects. <i>Ecological Indicators</i> , 2021 , 121, 107079	5.8	5
234	Spatial scale drives diversity patterns of benthic macroinvertebrate communities in tropical estuaries. <i>Limnology and Oceanography</i> , 2021 , 66, 727-739	4.8	1
233	Lakes in the era of global change: moving beyond single-lake thinking in maintaining biodiversity and ecosystem services. <i>Biological Reviews</i> , 2021 , 96, 89-106	13.5	38
232	Macrophyte stand complexity explains the functional and α diversity of fish in a tropical river-floodplain. <i>Aquatic Sciences</i> , 2021 , 83, 1	2.5	3
231	Predicting climate effects on aquatic true bugs in a tropical biodiversity hotspot. <i>Journal of Insect Conservation</i> , 2021 , 25, 229-241	2.1	0
230	Little evidence of range size conservatism in freshwater plants across two continents. <i>Journal of Biogeography</i> , 2021 , 48, 1200-1212	4.1	1
229	Understanding macroinvertebrate metacommunity organization using a nested study design across a mountainous river network. <i>Ecological Indicators</i> , 2021 , 121, 107188	5.8	4
228	Non-flying and flying macroinvertebrates show similar beta diversity patterns caused by different factors at two spatial scales in Amazon streams. <i>Aquatic Sciences</i> , 2021 , 83, 1	2.5	0
227	Eutrophication causes invertebrate biodiversity loss and decreases cross-taxon congruence across anthropogenically-disturbed lakes. <i>Environment International</i> , 2021 , 153, 106494	12.9	7
226	Effects of dam construction and fish invasion on the species, functional and phylogenetic diversity of fish assemblages in the Yellow River Basin. <i>Journal of Environmental Management</i> , 2021 , 293, 112863	7.9	1
225	Rarity in freshwater vascular plants across Europe and North America: Patterns, mechanisms and future scenarios. <i>Science of the Total Environment</i> , 2021 , 786, 147491	10.2	1
224	Spatio-temporal variation in water beetle assemblages across temperate freshwater ecosystems. <i>Science of the Total Environment</i> , 2021 , 792, 148071	10.2	1
223	Frog community composition-environment relationships vary over time: Are snapshot studies of metacommunity dynamics useful?. <i>Basic and Applied Ecology</i> , 2021 , 56, 85-96	3.2	2

222	Consequences of hydrological alteration for beta diversity of fish assemblages at multiple spatial scales. <i>Science of the Total Environment</i> , 2021 , 798, 149170	10.2	1
221	Anthropogenic land-use impacts on the size structure of macroinvertebrate assemblages are jointly modulated by local conditions and spatial processes. <i>Environmental Research</i> , 2021 , 204, 112055	7.9	1
220	Revisiting global trends in freshwater insect biodiversity. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021 , 8, e1506	5.7	6
219	DISPERSE, a trait database to assess the dispersal potential of European aquatic macroinvertebrates. <i>Scientific Data</i> , 2020 , 7, 386	8.2	19
218	Biotic interactions hold the key to understanding metacommunity organisation. <i>Ecography</i> , 2020 , 43, 1180-1190	6.5	34
217	Elements of metacommunity structure of diatoms and macroinvertebrates within stream networks differing in environmental heterogeneity. <i>Journal of Biogeography</i> , 2020 , 47, 1755-1764	4.1	5
216	Untangling the determinants of macrophyte beta diversity in tropical floodplain lakes: insights from ecological uniqueness and species contributions. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	4
215	Environmental determinants of lake macrophyte communities in Baikal Siberia. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	5
214	Ecological uniqueness and species richness of zooplankton in subtropical floodplain lakes. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	5
213	Global patterns and determinants of lake macrophyte taxonomic, functional and phylogenetic beta diversity. <i>Science of the Total Environment</i> , 2020 , 723, 138021	10.2	21
212	What to Survey? A Systematic Review of the Choice of Biological Groups in Assessing Ecological Impacts of Metals in Running Waters. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 1964-1972	3.8	10
211	Community size can affect the signals of ecological drift and niche selection on biodiversity. <i>Ecology</i> , 2020 , 101, e03014	4.6	16
210	Streams and riparian forests depend on each other: A review with a special focus on microbes. <i>Forest Ecology and Management</i> , 2020 , 462, 117962	3.9	19
209	No biotic homogenisation across decades but consistent effects of landscape position and pH on macrophyte communities in boreal lakes. <i>Ecography</i> , 2020 , 43, 294-305	6.5	24
208	Multitrophic biodiversity patterns and environmental descriptors of sub-Arctic lakes in northern Europe. <i>Freshwater Biology</i> , 2020 ,	3.1	8
207	Characteristics, Main Impacts, and Stewardship of Natural and Artificial Freshwater Environments: Consequences for Biodiversity Conservation. <i>Water (Switzerland)</i> , 2020 , 12, 260	3	53
206	Current climate overrides historical effects on species richness and range size of freshwater plants in Europe and North America. <i>Journal of Ecology</i> , 2020 , 108, 1262-1275	6	11
205	Seasonal shifts in the assembly dynamics of benthic macroinvertebrate and diatom communities in a subtropical river. <i>Ecology and Evolution</i> , 2020 , 10, 692-704	2.8	9

204	Seasonal changes in metacommunity assembly mechanisms of benthic macroinvertebrates in a subtropical river basin. <i>Science of the Total Environment</i> , 2020 , 729, 139046	10.2	17
203	Conservation of freshwater macroinvertebrate biodiversity in tropical regions. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2020 , 30, 1238-1250	2.6	15
202	Abruptly and irreversibly changing Arctic freshwaters urgently require standardized monitoring. <i>Journal of Applied Ecology</i> , 2020 , 57, 1192-1198	5.8	26
201	Choice of field and laboratory methods affects the detection of anthropogenic disturbances using stream macroinvertebrate assemblages. <i>Ecological Indicators</i> , 2020 , 115, 106382-106382	5.8	19
200	A Metacommunity Approach to Improve Biological Assessments in Highly Dynamic Freshwater Ecosystems. <i>BioScience</i> , 2020 , 70, 427-438	5.7	32
199	What explains the variation in dam impacts on riverine macroinvertebrates? A global quantitative synthesis. <i>Environmental Research Letters</i> , 2020 , 15, 124028	6.2	8
198	Discriminating the effects of local stressors from climatic factors and dispersal processes on multiple biodiversity dimensions of macroinvertebrate communities across subtropical drainage basins. <i>Science of the Total Environment</i> , 2020 , 711, 134750	10.2	15
197	Ecological processes underlying community assembly of aquatic bacteria and macroinvertebrates under contrasting climates on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2020 , 702, 134974	10.2	8
196	Changes in the functional features of macrophyte communities and driving factors across a 70-year period. <i>Hydrobiologia</i> , 2020 , 847, 3811-3827	2.4	9
195	Can taxonomic and functional metrics explain variation in the ecological uniqueness of ecologically-associated animal groups in a modified rainforest?. <i>Science of the Total Environment</i> , 2020 , 708, 135171	10.2	4
194	Sampling effort and information quality provided by rare and common species in estimating assemblage structure. <i>Ecological Indicators</i> , 2020 , 110, 105937	5.8	12
193	Drying determines the temporal dynamics of stream invertebrate structural and functional beta diversity. <i>Ecography</i> , 2020 , 43, 620-635	6.5	35
192	Ecological correlates of riverine diatom and macroinvertebrate alpha and beta diversity across Arctic Fennoscandia. <i>Freshwater Biology</i> , 2020 ,	3.1	8
191	Do the ecological drivers of lake littoral communities match and lead to congruence between organism groups?. <i>Aquatic Ecology</i> , 2020 , 54, 839-854	1.9	6
190	Can information from citizen science data be used to predict biodiversity in stormwater ponds?. <i>Scientific Reports</i> , 2020 , 10, 9380	4.9	2
189	Unravelling patterns of taxonomic and functional diversity of Amazon stream fish. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	3
188	Spatial processes determine planktonic diatom metacommunity structure of headwater streams. <i>Limnologica</i> , 2020 , 84, 125813	2	0
187	Elements of lake macrophyte metacommunity structure: Global variation and community-environment relationships. <i>Limnology and Oceanography</i> , 2020 , 65, 2883-2895	4.8	9

186	Invasive crayfish alter the long-term functional biodiversity of lotic macroinvertebrate communities. <i>Functional Ecology</i> , 2020 , 34, 2350-2361	5.6	7
185	Importance of local and landscape variables on multiple facets of stream fish biodiversity in a Neotropical agroecosystem. <i>Hydrobiologia</i> , 2020 , 1	2.4	2
184	Macroecology of ground beetles: Species richness, range size and body size show different geographical patterns across a climatically heterogeneous area. <i>Journal of Biogeography</i> , 2019 , 46, 2548-2557	4.1	3
183	Does catchment geodiversity foster stream biodiversity?. <i>Landscape Ecology</i> , 2019 , 34, 2469-2485	4.3	18
182	Multiple facets of stream macroinvertebrate alpha diversity are driven by different ecological factors across an extensive altitudinal gradient. <i>Ecology and Evolution</i> , 2019 , 9, 1306-1322	2.8	17
181	The three Rs of river ecosystem resilience: Resources, recruitment, and refugia. <i>River Research and Applications</i> , 2019 , 35, 107-120	2.3	48
180	Cross-taxon congruence of multiple diversity facets of freshwater assemblages is determined by large-scale processes across China. <i>Freshwater Biology</i> , 2019 , 64, 1492-1503	3.1	5
179	The effect of urbanization on freshwater macroinvertebrates [Knowledge gaps and future research directions. <i>Ecological Indicators</i> , 2019 , 104, 357-364	5.8	26
178	Using traits to explain interspecific variation in diatom occupancy and abundance across lakes and streams. <i>Journal of Biogeography</i> , 2019 , 46, 1419	4.1	3
177	Metacommunity ecology meets bioassessment: Assessing spatio-temporal variation in multiple facets of macroinvertebrate diversity in human-influenced large lakes. <i>Ecological Indicators</i> , 2019 , 103, 713-721	5.8	15
176	Disentangling the effects of dispersal mode on the assembly of macroinvertebrate assemblages in a heterogeneous highland region. <i>Freshwater Science</i> , 2019 , 38, 170-182	2	12
175	Environmental factors are primary determinants of different facets of pond macroinvertebrate alpha and beta diversity in a human-modified landscape. <i>Biological Conservation</i> , 2019 , 237, 348-357	6.2	37
174	Is catchment geodiversity a useful surrogate of aquatic plant species richness?. <i>Journal of Biogeography</i> , 2019 , 46, 1711-1722	4.1	17
173	Differently dispersing organism groups show contrasting beta diversity patterns in a dammed subtropical river basin. <i>Science of the Total Environment</i> , 2019 , 691, 1271-1281	10.2	27
172	Environmental variables drive differences in the beta diversity of dragonfly assemblages among urban stormwater ponds. <i>Ecological Indicators</i> , 2019 , 106, 105529	5.8	13
171	Catchment properties and the photosynthetic trait composition of freshwater plant communities. <i>Science</i> , 2019 , 366, 878-881	33.3	44
170	Correlates of different facets and components of beta diversity in stream organisms. <i>Oecologia</i> , 2019 , 191, 919-929	2.9	20
169	Parallels and contrasts between intermittently freezing and drying streams: From individual adaptations to biodiversity variation. <i>Freshwater Biology</i> , 2019 , 64, 1679-1691	3.1	14

168	Circumpolar patterns of Arctic freshwater fish biodiversity: A baseline for monitoring. <i>Freshwater Biology</i> , 2019 ,	3.1	11
167	Knitting patterns of biodiversity, range size and body size in aquatic beetle faunas: significant relationships but slightly divergent drivers. <i>Ecological Entomology</i> , 2019 , 44, 413-424	2.1	6
166	Niche position drives interspecific variation in occupancy and abundance in a highly-connected lake system. <i>Ecological Indicators</i> , 2019 , 99, 159-166	5.8	7
165	Taxonomic, functional, and phylogenetic diversity patterns of stream fish assemblages in tropical agroecosystems. <i>Freshwater Biology</i> , 2019 , 64, 447-460	3.1	21
164	Different roles for geography, energy and environment in determining three facets of freshwater molluscan beta diversity at broad spatial scales. <i>Science of the Total Environment</i> , 2019 , 659, 451-462	10.2	15
163	Understanding environmental change through the lens of trait-based, functional, and phylogenetic biodiversity in freshwater ecosystems. <i>Environmental Reviews</i> , 2019 , 27, 263-273	4.5	31
162	Nutrient enrichment homogenizes taxonomic and functional diversity of benthic macroinvertebrate assemblages in shallow lakes. <i>Limnology and Oceanography</i> , 2019 , 64, 1047-1058	4.8	22
161	Predicting beta diversity of terrestrial and aquatic beetles using ecogeographical variables: insights from the replacement and richness difference components. <i>Journal of Biogeography</i> , 2019 , 46, 304-315	4.1	30
160	Different responses of taxonomic and functional structures of stream macroinvertebrate communities to local stressors and regional factors in a subtropical biodiversity hotspot. <i>Science of the Total Environment</i> , 2019 , 655, 1288-1300	10.2	47
159	Species-poor and low-lying sites are more ecologically unique in a hyperdiverse Amazon region: Evidence from multiple taxonomic groups. <i>Diversity and Distributions</i> , 2018 , 24, 966-977	5	24
158	Ecological niche features override biological traits and taxonomic relatedness as predictors of occupancy and abundance in lake littoral macroinvertebrates. <i>Ecography</i> , 2018 , 41, 2092-2103	6.5	19
157	Biological surrogates: A word of caution. <i>Ecological Indicators</i> , 2018 , 88, 214-218	5.8	16
156	Environmental filtering and spatial effects on metacommunity organisation differ among littoral macroinvertebrate groups deconstructed by biological traits. <i>Aquatic Ecology</i> , 2018 , 52, 119-131	1.9	16
155	Metacommunities in river networks: The importance of network structure and connectivity on patterns and processes. <i>Freshwater Biology</i> , 2018 , 63, 1-5	3.1	43
154	Geographical gradients in the biodiversity of Chinese freshwater molluscs: Implications for conservation. <i>Diversity and Distributions</i> , 2018 , 24, 485-496	5	23
153	Different species trait groups of stream diatoms show divergent responses to spatial and environmental factors in a subarctic drainage basin. <i>Hydrobiologia</i> , 2018 , 816, 213-230	2.4	11
152	Predicting occupancy and abundance by niche position, niche breadth and body size in stream organisms. <i>Oecologia</i> , 2018 , 186, 205-216	2.9	23
151	A meta-analysis of nestedness and turnover components of beta diversity across organisms and ecosystems. <i>Global Ecology and Biogeography</i> , 2018 , 27, 96-109	6.1	182

150	The role of dispersal in river network metacommunities: Patterns, processes, and pathways. <i>Freshwater Biology</i> , 2018 , 63, 141-163	3.1	158
149	Highly variable species distribution models in a subarctic stream metacommunity: Patterns, mechanisms and implications. <i>Freshwater Biology</i> , 2018 , 63, 33-47	3.1	7
148	The added value of geodiversity indices in explaining variation of stream macroinvertebrate diversity. <i>Ecological Indicators</i> , 2018 , 94, 420-429	5.8	14
147	Disentangling the correlates of species and site contributions to beta diversity in dung beetle assemblages. <i>Diversity and Distributions</i> , 2018 , 24, 1674-1686	5	29
146	Ecological uniqueness of macroinvertebrate communities in high-latitude streams is a consequence of deterministic environmental filtering processes. <i>Aquatic Ecology</i> , 2018 , 52, 17-33	1.9	15
145	Scaling biodiversity responses to hydrological regimes. <i>Biological Reviews</i> , 2018 , 93, 971-995	13.5	50
144	Biogeographical Patterns of Species Richness and Abundance Distribution in Stream Diatoms Are Driven by Climate and Water Chemistry. <i>American Naturalist</i> , 2018 , 192, 605-617	3.7	7
143	Global patterns in the metacommunity structuring of lake macrophytes: regional variations and driving factors. <i>Oecologia</i> , 2018 , 188, 1167-1182	2.9	36
142	Local environment and space drive multiple facets of stream macroinvertebrate beta diversity. <i>Journal of Biogeography</i> , 2018 , 45, 2744-2754	4.1	55
141	Changes in multiple facets of macroinvertebrate alpha diversity are linked to afforestation in a subtropical riverine natural reserve. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 36124-36135	5.1	7
140	Exploring multiple presence-absence data structures in ecology. <i>Ecological Modelling</i> , 2018 , 383, 41-51	3	5
139	Subtropical streams harbour higher genus richness and lower abundance of insects compared to boreal streams, but scale matters. <i>Journal of Biogeography</i> , 2018 , 45, 1983-1993	4.1	25
138	A comparative analysis reveals little evidence for niche conservatism in aquatic macrophytes among four areas on two continents. <i>Oikos</i> , 2017 , 126, 136-148	4	17
137	Temporal variation in phytoplankton beta diversity patterns and metacommunity structures across subtropical reservoirs. <i>Freshwater Biology</i> , 2017 , 62, 751-766	3.1	43
136	Environmental degradation results in contrasting changes in the assembly processes of stream bacterial and fungal communities. <i>Oikos</i> , 2017 , 126, 1291-1298	4	18
135	Global variation in the beta diversity of lake macrophytes is driven by environmental heterogeneity rather than latitude. <i>Journal of Biogeography</i> , 2017 , 44, 1758-1769	4.1	82
134	Fine spatial grain, large spatial extent and biogeography of macrophyte-associated cladoceran communities across Neotropical floodplains. <i>Freshwater Biology</i> , 2017 , 62, 559-569	3.1	19
133	How Essential Biodiversity Variables and remote sensing can help national biodiversity monitoring. <i>Global Ecology and Conservation</i> , 2017 , 10, 43-59	2.8	110

132	Untangling the assembly of littoral macroinvertebrate communities through measures of functional and phylogenetic alpha diversity. <i>Freshwater Biology</i> , 2017 , 62, 1168-1179	3.1	23
131	Effects of dispersal mode on the environmental and spatial correlates of nestedness and species turnover in pond communities. <i>Oikos</i> , 2017 , 126, 1575-1585	4	72
130	Integrating dispersal proxies in ecological and environmental research in the freshwater realm. <i>Environmental Reviews</i> , 2017 , 25, 334-349	4.5	55
129	Disentangling multi-scale environmental effects on stream microbial communities. <i>Journal of Biogeography</i> , 2017 , 44, 1512-1523	4.1	26
128	Ecological drivers of multiple facets of beta diversity in a lentic macroinvertebrate metacommunity. <i>Limnology and Oceanography</i> , 2017 , 62, 2431-2444	4.8	85
127	Species richness and taxonomic distinctness of lake macrophytes along environmental gradients in two continents. <i>Freshwater Biology</i> , 2017 , 62, 1194-1206	3.1	13
126	Relative roles of spatial processes, natural factors and anthropogenic stressors in structuring a lake macroinvertebrate metacommunity. <i>Science of the Total Environment</i> , 2017 , 601-602, 1702-1711	10.2	34
125	Average niche breadths of species in lake macrophyte communities respond to ecological gradients variably in four regions on two continents. <i>Oecologia</i> , 2017 , 184, 219-235	2.9	12
124	The strength of species sorting of phytoplankton communities is temporally variable in subtropical reservoirs. <i>Hydrobiologia</i> , 2017 , 800, 31-43	2.4	19
123	Bacterial metacommunity organization in a highly connected aquatic system. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	18
122	Ecological uniqueness of stream and lake diatom communities shows different macroecological patterns. <i>Diversity and Distributions</i> , 2017 , 23, 1042-1053	5	35
121	Decreased habitat specialization in macroinvertebrate assemblages in anthropogenically disturbed streams. <i>Ecological Complexity</i> , 2017 , 31, 181-188	2.6	15
120	Habitat Fragmentation and Metapopulation, Metacommunity, and Metaecosystem Dynamics in Intermittent Rivers and Ephemeral Streams 2017 , 377-403		13
119	Do different facets of littoral macroinvertebrate diversity show congruent patterns in a large lake system?. <i>Community Ecology</i> , 2017 , 18, 109-116	1.2	3
118	Metacommunity structuring in a highly-connected aquatic system: effects of dispersal, abiotic environment and grazing pressure on microalgal guilds. <i>Hydrobiologia</i> , 2017 , 790, 125-140	2.4	23
117	Exploring species and site contributions to beta diversity in stream insect assemblages. <i>Oecologia</i> , 2017 , 183, 151-160	2.9	52
116	Ignoring spatial effects results in inadequate models for variation in littoral macroinvertebrate diversity. <i>Oikos</i> , 2017 , 126, 852-862	4	20
115	Unravelling the correlates of species richness and ecological uniqueness in a metacommunity of urban pond insects. <i>Ecological Indicators</i> , 2017 , 73, 422-431	5.8	35

114	Functional diversity: a review of methodology and current knowledge in freshwater macroinvertebrate research. <i>Hydrobiologia</i> , 2017 , 787, 27-44	2.4	93
113	Environmental predictability of taxonomic and functional community composition in high-latitude streams. <i>Freshwater Biology</i> , 2017 , 62, 1-16	3.1	22
112	Metacommunity ecology meets biogeography: effects of geographical region, spatial dynamics and environmental filtering on community structure in aquatic organisms. <i>Oecologia</i> , 2017 , 183, 121-137	2.9	74
111	Geography of global change and species richness in the North. <i>Environmental Reviews</i> , 2017 , 25, 184-192	4.5	21
110	Unravelling the drivers of aquatic communities using disparate organismal groups and different taxonomic levels. <i>Ecological Indicators</i> , 2016 , 60, 108-118	5.8	44
109	Unravelling the joint effects of flow regime, climatic variability and dispersal mode on beta diversity of riverine communities. <i>Freshwater Biology</i> , 2016 , 61, 1350-1364	3.1	22
108	Hierarchical decomposition of trait patterns of macroinvertebrate communities in subarctic streams. <i>Freshwater Science</i> , 2016 , 35, 1032-1048	2	19
107	Towards understanding the organisation of metacommunities in highly dynamic ecological systems. <i>Oikos</i> , 2016 , 125, 149-159	4	115
106	Two roles for ecological surrogacy: Indicator surrogates and management surrogates. <i>Ecological Indicators</i> , 2016 , 63, 121-125	5.8	58
105	Bioassessment in a metacommunity context: Are diatom communities structured solely by species sorting?. <i>Ecological Indicators</i> , 2016 , 62, 86-94	5.8	32
104	Taxonomic distinctness along nutrient gradients: More diverse, less diverse or not different from random?. <i>Ecological Indicators</i> , 2016 , 61, 1033-1041	5.8	20
103	Beta diversity of stream diatoms at two hierarchical spatial scales: implications for biomonitoring. <i>Freshwater Biology</i> , 2016 , 61, 239-250	3.1	24
102	Context dependency in biodiversity patterns of central German stream metacommunities. <i>Freshwater Biology</i> , 2016 , 61, 607-620	3.1	67
101	Nutrient enrichment modifies temperature-biodiversity relationships in large-scale field experiments. <i>Nature Communications</i> , 2016 , 7, 13960	17.4	126
100	Predictability of stream insect distributions is dependent on niche position, but not on biological traits or taxonomic relatedness of species. <i>Ecography</i> , 2016 , 39, 1216-1226	6.5	20
99	Phylogenetic diversity of regional beetle faunas at high latitudes: patterns, drivers and chance along ecological gradients. <i>Biodiversity and Conservation</i> , 2015 , 24, 2751-2767	3.4	22
98	Freshwater diatoms as environmental indicators: evaluating the effects of eutrophication using species morphology and biological indices. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 243	3.1	29
97	Elements of metacommunity structure and community-environment relationships in stream organisms. <i>Freshwater Biology</i> , 2015 , 60, 973-988	3.1	46

96	A new framework for selecting environmental surrogates. <i>Science of the Total Environment</i> , 2015 , 538, 1029-38	10.2	67
95	A proposed unified terminology of species traits in stream ecology. <i>Freshwater Science</i> , 2015 , 34, 823-830		61
94	Elements of regional beetle faunas: faunal variation and compositional breakpoints along climate, land cover and geographical gradients. <i>Journal of Animal Ecology</i> , 2015 , 84, 427-41	4.7	39
93	Reconceptualising the beta diversity-environmental heterogeneity relationship in running water systems. <i>Freshwater Biology</i> , 2015 , 60, 223-235	3.1	163
92	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> , 2015 , 84, 1342-53	4.7	58
91	A comparative analysis reveals weak relationships between ecological factors and beta diversity of stream insect metacommunities at two spatial levels. <i>Ecology and Evolution</i> , 2015 , 5, 1235-48	2.8	132
90	Complex metacommunity structure for benthic invertebrates in a low-diversity coastal system. <i>Ecology and Evolution</i> , 2015 , 5, 5203-5215	2.8	13
89	Deconstructing occupancy frequency distributions in stream insects: effects of body size and niche characteristics in different geographical regions. <i>Ecological Entomology</i> , 2015 , 40, 491-499	2.1	9
88	A comparative analysis of metacommunity types in the freshwater realm. <i>Ecology and Evolution</i> , 2015 , 5, 1525-37	2.8	53
87	Metacommunity organisation, spatial extent and dispersal in aquatic systems: patterns, processes and prospects. <i>Freshwater Biology</i> , 2015 , 60, 845-869	3.1	477
86	Toward More Integrated Ecosystem Research in Aquatic and Terrestrial Environments. <i>BioScience</i> , 2015 , 65, 174-182	5.7	92
85	Untangling the relationships among regional occupancy, species traits, and niche characteristics in stream invertebrates. <i>Ecology and Evolution</i> , 2014 , 4, 1931-42	2.8	34
84	Species sorting determines variation in the community composition of common and rare macrophytes at various spatial extents. <i>Ecological Complexity</i> , 2014 , 20, 61-68	2.6	40
83	Integrating behavioral, population and large-scale approaches for understanding stream insect communities. <i>Current Opinion in Insect Science</i> , 2014 , 2, 7-13	5.1	47
82	Nutrient enrichment is related to two facets of beta diversity for stream invertebrates across the United States. <i>Ecology</i> , 2014 , 95, 1569-78	4.6	79
81	Microbial diversity and community-environment relationships in boreal streams. <i>Journal of Biogeography</i> , 2014 , 41, 2234-2244	4.1	40
80	Combining taxon-by-trait and taxon-by-site matrices for analysing trait patterns of macroinvertebrate communities: a rejoinder to Monaghan & Soares (). <i>Freshwater Biology</i> , 2014 , 59, 1551-1557	3.1	157 ¹³
79	Taxonomic surrogacy, numerical resolution and responses of stream macroinvertebrate communities to ecological gradients: Are the inferences transferable among regions?. <i>Ecological Indicators</i> , 2014 , 36, 186-194	5.8	72

78	Metacommunity structuring in stream networks: roles of dispersal mode, distance type, and regional environmental context. <i>Ecology and Evolution</i> , 2013 , 3, 4473-87	2.8	165
77	Environmental heterogeneity and diversity of stream macroinvertebrate communities at intermediate spatial scales. <i>Freshwater Science</i> , 2013 , 32, 142-154	2	74
76	The importance of metacommunity ecology for environmental assessment research in the freshwater realm. <i>Biological Reviews</i> , 2013 , 88, 166-78	13.5	186
75	Drivers of beta diversity of macroinvertebrate communities in tropical forest streams. <i>Freshwater Biology</i> , 2013 , 58, 1126-1137	3.1	60
74	Does environmental heterogeneity affect species co-occurrence in ecological guilds across stream macroinvertebrate metacommunities?. <i>Ecography</i> , 2013 , 36, 926-936	6.5	34
73	Spatial extent, regional specificity and metacommunity structuring in lake macrophytes. <i>Journal of Biogeography</i> , 2013 , 40, 1572-1582	4.1	72
72	Does dispersal ability affect the relative importance of environmental control and spatial structuring of littoral macroinvertebrate communities?. <i>Oecologia</i> , 2013 , 171, 971-80	2.9	101
71	A macroecological perspective of trait patterns in stream communities. <i>Freshwater Biology</i> , 2013 , 58, 1539-1555	3.1	81
70	Habitat filtering determines spatial variation of macroinvertebrate community traits in northern headwater streams. <i>Community Ecology</i> , 2013 , 14, 77-88	1.2	24
69	Environmental heterogeneity, dispersal mode, and co-occurrence in stream macroinvertebrates. <i>Ecology and Evolution</i> , 2013 , 3, 344-55	2.8	66
68	Species richness at the guild level: effects of species pool and local environmental conditions on stream macroinvertebrate communities. <i>Journal of Animal Ecology</i> , 2012 , 81, 679-91	4.7	30
67	Context dependency and metacommunity structuring in boreal headwater streams. <i>Oikos</i> , 2012 , 121, 537-544	4	132
66	Relationships between multiple biological groups and classification schemes in a Neotropical floodplain. <i>Ecological Indicators</i> , 2012 , 13, 55-65	5.8	25
65	Specific Niche Characteristics Facilitate the Invasion of an Alien Fish Invader in Boreal Streams. <i>International Journal of Ecology</i> , 2012 , 2012, 1-10	1.9	7
64	Expanding the ecological niche approach: Relationships between variability in niche position and species richness. <i>Ecological Complexity</i> , 2011 , 8, 130-137	2.6	9
63	Non-biting midges in biodiversity conservation and environmental assessment: Findings from boreal freshwater ecosystems. <i>Ecological Indicators</i> , 2011 , 11, 1057-1064	5.8	37
62	Climate change and the future distributions of aquatic macrophytes across boreal catchments. <i>Journal of Biogeography</i> , 2011 , 38, 383-393	4.1	60
61	A macroecological perspective of diversity patterns in the freshwater realm. <i>Freshwater Biology</i> , 2011 , 56, 1703-1722	3.1	221

60	Freshwater biodiversity at regional extent: determinants of macroinvertebrate taxonomic richness in headwater streams. <i>Ecography</i> , 2011 , 34, 705-713	6.5	41
59	The stability-diversity relationship in stream macroinvertebrates: influences of sampling effects and habitat complexity. <i>Freshwater Biology</i> , 2011 , 56, 1122-1132	3.1	31
58	Geographical patterns of micro-organismal community structure: are diatoms ubiquitously distributed across boreal streams?. <i>Oikos</i> , 2010 , 119, 129-137	4	126
57	Are common species sufficient in describing turnover in aquatic metacommunities along environmental and spatial gradients?. <i>Limnology and Oceanography</i> , 2010 , 55, 2397-2402	4.8	51
56	Assessing patterns of nestedness in stream insect assemblages along environmental gradients. <i>Ecoscience</i> , 2010 , 17, 345-355	1.1	11
55	Are indicator groups and cross-taxon congruence useful for predicting biodiversity in aquatic ecosystems?. <i>Ecological Indicators</i> , 2010 , 10, 112-117	5.8	187
54	Indicator groups and congruence of assemblage similarity, species richness and environmental relationships in littoral macroinvertebrates. <i>Biodiversity and Conservation</i> , 2009 , 18, 3085-3098	3.4	44
53	Characterising functional trait diversity and trait-environment relationships in fish assemblages of boreal lakes. <i>Freshwater Biology</i> , 2009 , 54, 1788-1803	3.1	58
52	Species co-occurrence, nestedness and guild-environment relationships in stream macroinvertebrates. <i>Freshwater Biology</i> , 2009 , 54, 1947-1959	3.1	25
51	Local-regional diversity relationship varies with spatial scale in lotic diatoms. <i>Journal of Biogeography</i> , 2009 , 36, 720-727	4.1	23
50	Climate change and freshwater biodiversity: detected patterns, future trends and adaptations in northern regions. <i>Biological Reviews</i> , 2009 , 84, 39-54	13.5	487
49	Temporal variability of nestedness and idiosyncratic species in stream insect assemblages. <i>Diversity and Distributions</i> , 2009 , 15, 198-206	5	40
48	Surveying biodiversity in protected and managed areas: Algae, macrophytes and macroinvertebrates in boreal forest streams. <i>Ecological Indicators</i> , 2009 , 9, 1179-1187	5.8	37
47	Biodiversity of Aquatic Insects: Spatial Gradients and Environmental Correlates of Assemblage-Level Measures at Large Scales. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2009 , 2, 1-29		91
46	Unravelling the determinants of stream midge biodiversity in a boreal drainage basin. <i>Freshwater Biology</i> , 2008 , 53, 884-896	3.1	15
45	Testing species-area and species-bryophyte cover relationships in riverine macroinvertebrates at small scales. <i>Freshwater Biology</i> , 2008 , 53, 558-568	3.1	21
44	Control of stream insect assemblages: roles of spatial configuration and local environmental factors. <i>Ecological Entomology</i> , 2008 , 33, 614-622	2.1	88
43	Concordance of stream macroinvertebrate assemblage classifications: How general are patterns from single-year surveys?. <i>Biological Conservation</i> , 2008 , 141, 1218-1223	6.2	38

42	Patterns of functional biodiversity and function-environment relationships in lake littoral macroinvertebrates. <i>Limnology and Oceanography</i> , 2008 , 53, 1446-1455	4.8	94
41	Weak relationships between landscape characteristics and multiple facets of stream macroinvertebrate biodiversity in a boreal drainage basin. <i>Landscape Ecology</i> , 2008 , 23, 417-426	4.3	52
40	Temporally stable abundance-occupancy relationships and occupancy frequency patterns in stream insects. <i>Oecologia</i> , 2008 , 157, 337-47	2.9	17
39	Regional gradient analysis of freshwater biota: do similar biogeographic patterns exist among multiple taxonomic groups?. <i>Journal of Biogeography</i> , 2008 , 28, 69-76	4.1	51
38	Neutrality, niches, and determinants of plankton metacommunity structure across boreal wetland ponds. <i>Ecoscience</i> , 2007 , 14, 146-154	1.1	73
37	Ecological filters and variability in stream macroinvertebrate communities: do taxonomic and functional structure follow the same path?. <i>Ecography</i> , 2007 , 30, 217-230	6.5	84
36	Scale-related patterns in the spatial and environmental components of stream macroinvertebrate assemblage variation. <i>Global Ecology and Biogeography</i> , 2007 , 16, 149-159	6.1	205
35	Responses of taxonomic distinctness and species diversity indices to anthropogenic impacts and natural environmental gradients in stream macroinvertebrates. <i>Freshwater Biology</i> , 2007 , 52, 1846-1861 ^{3.1}		77
34	Variation in niche parameters along the diversity gradient of unicellular eukaryote assemblages. <i>Protist</i> , 2007 , 158, 181-91	2.5	25
33	Are higher taxa adequate surrogates for species-level assemblage patterns and species richness in stream organisms?. <i>Biological Conservation</i> , 2007 , 137, 78-89	6.2	184
32	Spatial scale affects community concordance among fishes, benthic macroinvertebrates, and bryophytes in streams 2006 , 16, 368-79		93
31	Assessing physical surrogates for biodiversity: Do tributary and stream type classifications reflect macroinvertebrate assemblage diversity in running waters?. <i>Biological Conservation</i> , 2006 , 129, 418-426	6.2	42
30	Regional occupancy in unicellular eukaryotes: a reflection of niche breadth, habitat availability or size-related dispersal capacity?. <i>Freshwater Biology</i> , 2006 , 51, 672-685	3.1	55
29	Relationships between distribution and abundance vary with spatial scale and ecological group in stream bryophytes. <i>Freshwater Biology</i> , 2006 , 51, 1879-1889	3.1	27
28	Landscape Position, Local Environmental Factors, and the Structure of Molluscan Assemblages of Lakes. <i>Landscape Ecology</i> , 2006 , 21, 499-507	4.3	26
27	Scale-related patterns in the spatial and environmental components of stream macroinvertebrate assemblage variation. <i>Global Ecology and Biogeography</i> , 2006 , 061120101210010-???	6.1	
26	The relationship between species richness and taxonomic distinctness in freshwater organisms. <i>Limnology and Oceanography</i> , 2005 , 50, 978-986	4.8	73
25	Spring bryophytes in forested landscapes: Land use effects on bryophyte species richness, community structure and persistence. <i>Biological Conservation</i> , 2005 , 124, 539-545	6.2	32

24	Highly nested snail and clam assemblages in boreal lake littorals: Roles of isolation, area, and habitat suitability1 Associate Editor: Gerald Mackie.. <i>Ecoscience</i> , 2005 , 12, 141-146	1.1	19
23	Metacommunity patterns of highly diverse stream midges: gradients, checkerboards, and nestedness, or is there only randomness?. <i>Ecological Entomology</i> , 2005 , 30, 590-599	2.1	44
22	Relationships between local population persistence, local abundance and regional occupancy of species: distribution patterns of diatoms in boreal streams. <i>Journal of Biogeography</i> , 2005 , 32, 1971-1978	4.1	62
21	Assembly rules and community models for unicellular organisms: patterns in diatoms of boreal streams. <i>Freshwater Biology</i> , 2005 , 50, 567-577	3.1	50
20	Functional biodiversity of macroinvertebrate assemblages along major ecological gradients of boreal headwater streams. <i>Freshwater Biology</i> , 2005 , 50, 1578-1587	3.1	132
19	Positive relationship between regional distribution and local abundance in stream insects: a consequence of niche breadth or niche position?. <i>Ecography</i> , 2005 , 28, 345-354	6.5	81
18	Characterizing macroinvertebrate assemblage structure in relation to stream size and tributary position. <i>Hydrobiologia</i> , 2005 , 539, 121-130	2.4	48
17	Searching for biodiversity indicators in running waters: do bryophytes, macroinvertebrates, and fish show congruent diversity patterns?. <i>Biodiversity and Conservation</i> , 2005 , 14, 415-428	3.4	99
16	Searching for biodiversity indicators in running waters: do bryophytes, macroinvertebrates, and fish show congruent diversity patterns?. <i>Biodiversity and Conservation</i> , 2005 , 14, 415-428	3.4	1
15	Identifying the scales of variability in stream macroinvertebrate abundance, functional composition and assemblage structure. <i>Freshwater Biology</i> , 2004 , 49, 1230-1239	3.1	119
14	Variability of lotic macroinvertebrate assemblages and stream habitat characteristics across hierarchical landscape classifications. <i>Environmental Management</i> , 2004 , 34, 341-52	3.1	41
13	Determinants of macroinvertebrate diversity in headwater streams: regional and local influences. <i>Journal of Animal Ecology</i> , 2003 , 72, 425-434	4.7	184
12	Are biological classifications of headwater streams concordant across multiple taxonomic groups?. <i>Freshwater Biology</i> , 2003 , 48, 1912-1923	3.1	100
11	Among-taxon congruence in biodiversity patterns: can stream insect diversity be predicted using single taxonomic groups?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003 , 60, 1039-1049	2.4	58
10	DEFINING MACROINVERTEBRATE ASSEMBLAGE TYPES OF HEADWATER STREAMS: IMPLICATIONS FOR BIOASSESSMENT AND CONSERVATION 2003 , 13, 842-852		83
9	Concordance of species richness patterns among multiple freshwater taxa: a regional perspective. <i>Biodiversity and Conservation</i> , 2002 , 11, 137-147	3.4	98
8	Correspondence between regional delineations and spatial patterns in macroinvertebrate assemblages of boreal headwater streams. <i>Journal of the North American Benthological Society</i> , 2002 , 21, 397-413		95
7	Lentic macroinvertebrate assemblage structure along gradients in spatial heterogeneity, habitat size and water chemistry. <i>Hydrobiologia</i> , 2000 , 418, 229-242	2.4	127

6	Spatio-temporal variation of macroinvertebrate metacommunity organization in a monsoon-climate region. <i>Journal of Biogeography</i> ,	4.1	1
5	DISPERSE DA trait database to assess the dispersal potential of aquatic macroinvertebrates		4
4	Community size affects the signals of ecological drift and niche selection on biodiversity		2
3	Climate change effects on freshwater fishes, conservation and management76-106		9
2	Historical contingency via priority effects counteracts environmental change on metacommunity dynamics across decades. <i>Limnology and Oceanography</i> ,	4.8	3
1	Change in beta diversity of riverine fish during and after supra-seasonal drought. <i>Landscape Ecology</i> ,1	4.3	0