

Richard K Johnson

List of Publications by Citations

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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.

127 papers	5,672 citations	36 h-index	73 g-index
129 ext. papers	6,228 ext. citations	4.2 avg, IF	5.61 L-index

#	Paper	IF	Citations
127	Setting expectations for the ecological condition of streams: the concept of reference condition 2006 , 16, 1267-76		716
126	The European Water Framework Directive at the age of 10: a critical review of the achievements with recommendations for the future. <i>Science of the Total Environment</i> , 2010 , 408, 4007-19	10.2	631
125	Assessment of European streams with diatoms, macrophytes, macroinvertebrates and fish: a comparative metric-based analysis of organism response to stress. <i>Freshwater Biology</i> , 2006 , 51, 1757-1785	7.1	403
124	Evaluation of the use of landscape classifications for the prediction of freshwater biota: synthesis and recommendations. <i>Journal of the North American Benthological Society</i> , 2000 , 19, 541-556		208
123	Towards sustainable land use: identifying and managing the conflicts between human activities and biodiversity conservation in Europe. <i>Biodiversity and Conservation</i> , 2005 , 14, 1641-1661	3.4	189
122	The STAR project: context, objectives and approaches. <i>Hydrobiologia</i> , 2006 , 566, 3-29	2.4	165
121	The Development of a System to Assess the Ecological Quality of Streams Based on Macroinvertebrates Design of the Sampling Programme within the AQEM Project. <i>International Review of Hydrobiology</i> , 2003 , 88, 345-361	2.3	158
120	Correcting a fundamental error in greenhouse gas accounting related to bioenergy. <i>Energy Policy</i> , 2012 , 45-222, 18-23	7.2	148
119	Ecological relationships between stream communities and spatial scale: implications for designing catchment-level monitoring programmes. <i>Freshwater Biology</i> , 2007 , 52, 939-958	3.1	124
118	Detection of ecological change using multiple organism groups: metrics and uncertainty. <i>Hydrobiologia</i> , 2006 , 566, 115-137	2.4	115
117	Spatial scale and ecological relationships between the macroinvertebrate communities of stony habitats of streams and lakes. <i>Freshwater Biology</i> , 2004 , 49, 1179-1194	3.1	115
116	Local, landscape and regional factors structuring benthic macroinvertebrate assemblages in Swedish streams. <i>Landscape Ecology</i> , 2004 , 19, 501-515	4.3	105
115	Response of taxonomic groups in streams to gradients in resource and habitat characteristics. <i>Journal of Applied Ecology</i> , 2009 , 46, 175-186	5.8	95
114	The Swedish monitoring of surface waters: 50 years of adaptive monitoring. <i>Ambio</i> , 2014 , 43 Suppl 1, 3-18	6.5	94
113	Identifying, managing and monitoring conflicts between forest biodiversity conservation and other human interests in Europe. <i>Forest Policy and Economics</i> , 2005 , 7, 877-890	3.6	90
112	Additive partitioning of aquatic invertebrate species diversity across multiple spatial scales. <i>Freshwater Biology</i> , 2005 , 50, 1360-1375	3.1	88
111	Ecoregions and benthic macroinvertebrate assemblages of Swedish streams. <i>Journal of the North American Benthological Society</i> , 2000 , 19, 462-474		83

110	Pelagic-benthic coupling: Profundal benthic community response to spring diatom deposition in mesotrophic Lake Erken. <i>Limnology and Oceanography</i> , 1996 , 41, 636-647	4.8	70
109	Classification and ordination of profundal macroinvertebrate communities in nutrient poor, oligo-mesohumic lakes in relation to environmental data. <i>Freshwater Biology</i> , 1989 , 21, 375-386	3.1	63
108	Interactions between <i>Chironomus plumosus</i> (L.) and the microbial community in surficial sediments of a shallow, eutrophic lake. <i>Limnology and Oceanography</i> , 1989 , 34, 992-1003	4.8	63
107	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2009 , 2, 103-130		62
106	Effects of Deposit-Feeder Activity on Bacterial Production and Abundance in Profundal Lake Sediment. <i>Journal of the North American Benthological Society</i> , 1994 , 13, 532-539		61
105	Benthic macroinvertebrates in lake ecological assessment: A review of methods, intercalibration and practical recommendations. <i>Science of the Total Environment</i> , 2016 , 543, 123-134	10.2	55
104	The statistical power of selected indicator metrics using macroinvertebrates for assessing acidification and eutrophication of running waters. <i>Hydrobiologia</i> , 2000 , 422/423, 233-243	2.4	55
103	SPATIOTEMPORAL VARIABILITY OF TEMPERATE LAKE MACROINVERTEBRATE COMMUNITIES: DETECTION OF IMPACT 1998 , 8, 61-70		52
102	Indicators of ecological change: comparison of the early response of four organism groups to stress gradients. <i>Hydrobiologia</i> , 2006 , 566, 139-152	2.4	50
101	Pelagic-benthic coupling-The importance of diatom interannual variability for population oscillations of <i>Monoporeia affinis</i> . <i>Limnology and Oceanography</i> , 1992 , 37, 1596-1607	4.8	50
100	Assessing and managing freshwater ecosystems vulnerable to environmental change. <i>Ambio</i> , 2014 , 43 Suppl 1, 113-25	6.5	49
99	Linking Biodiversity, Ecosystem Functioning and Services, and Ecological Resilience. <i>Advances in Ecological Research</i> , 2015 , 53, 55-96	4.6	44
98	Spatial congruency of benthic diatom, invertebrate, macrophyte, and fish assemblages in European streams 2010 , 20, 978-92		44
97	A comparison of the European Water Framework Directive physical typology and RIVPACS-type models as alternative methods of establishing reference conditions for benthic macroinvertebrates. <i>Hydrobiologia</i> , 2006 , 566, 91-105	2.4	42
96	Detection of organic pollution of streams in southern Sweden using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004 , 516, 161-172	2.4	42
95	Effects of agricultural land use on stream assemblages: Taxon-specific responses of alpha and beta diversity. <i>Ecological Indicators</i> , 2014 , 45, 386-393	5.8	41
94	Linking organism groups [major results and conclusions from the STAR project. <i>Hydrobiologia</i> , 2006 , 566, 109-113	2.4	40
93	Measuring the relative resilience of subarctic lakes to global change: redundancies of functions within and across temporal scales. <i>Journal of Applied Ecology</i> , 2013 , 50, 572-584	5.8	37

92	Effects of nutrient enrichment on boreal streams: invertebrates, fungi and leaf-litter breakdown. <i>Freshwater Biology</i> , 2007 , 52, 1618-1633	3.1	37
91	Spatial congruence between ecoregions and littoral macroinvertebrate assemblages. <i>Journal of the North American Benthological Society</i> , 2000 , 19, 475-486		34
90	Seasonal variation in diet of <i>Chironomus plumosus</i> (L.) and <i>C. anthracinus</i> Zett. (Diptera: Chironomidae) in mesotrophic Lake Erken. <i>Freshwater Biology</i> , 1987 , 17, 525-532	3.1	34
89	Strong land-use effects on the dispersal patterns of adult stream insects: implications for transfers of aquatic subsidies to terrestrial consumers. <i>Freshwater Biology</i> , 2016 , 61, 848-861	3.1	33
88	Detection of ecological change in stream macroinvertebrate assemblages using single metric, multimetric or multivariate approaches. <i>Ecological Indicators</i> , 2009 , 9, 659-669	5.8	33
87	Assessing acid stress in Swedish boreal and alpine streams using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004 , 516, 129-148	2.4	33
86	Assessing the Benefits of Forested Riparian Zones: A Qualitative Index of Riparian Integrity Is Positively Associated with Ecological Status in European Streams. <i>Water (Switzerland)</i> , 2020 , 12, 1178	3	32
85	Temporal scales and patterns of invertebrate biodiversity dynamics in boreal lakes recovering from acidification 2012 , 22, 1172-86		32
84	Revealing the Organization of Complex Adaptive Systems through Multivariate Time Series Modeling. <i>Ecology and Society</i> , 2011 , 16,	4.1	31
83	Estimates and comparisons of the effects of sampling variation using Bational Macroinvertebrate sampling protocols on the precision of metrics used to assess ecological status. <i>Hydrobiologia</i> , 2006 , 566, 477-503	2.4	31
82	Policy-driven monitoring and evaluation: Does it support adaptive management of socio-ecological systems?. <i>Science of the Total Environment</i> , 2019 , 662, 373-384	10.2	30
81	Tracing recovery under changing climate: response of phytoplankton and invertebrate assemblages to decreased acidification. <i>Journal of the North American Benthological Society</i> , 2010 , 29, 1472-1490		29
80	A Novel Environmental Quality Criterion for Acidification in Swedish Lakes [An Application of Studies on the Relationship Between Biota and Water Chemistry. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 331-338		29
79	Feeding efficiencies of <i>Chironomus plumosus</i> (L.) and <i>C. anthracinus</i> Zett. (Diptera: Chironomidae) in mesotrophic Lake Erken. <i>Freshwater Biology</i> , 1985 , 15, 605-612	3.1	29
78	Tracking recovery trends of boreal lakes: use of multiple indicators and habitats. <i>Journal of the North American Benthological Society</i> , 2008 , 27, 529-540		28
77	Effects of nutrient enrichment on C and N stable isotope ratios of invertebrates, fish and their food resources in boreal streams. <i>Hydrobiologia</i> , 2009 , 628, 67-79	2.4	27
76	Assessing the ecological integrity of boreal streams: a comparison of functional and structural responses. <i>Fundamental and Applied Limnology</i> , 2007 , 168, 113-125	1.9	27
75	Optimizing stream bioassessment: habitat, season, and the impacts of land use on benthic macroinvertebrates. <i>Hydrobiologia</i> , 2013 , 704, 363-373	2.4	26

74	Factors affecting occurrence and bloom formation of the nuisance flagellate <i>Gonyostomum semen</i> in boreal lakes. <i>Harmful Algae</i> , 2013 , 27, 60-67	5.3	26
73	Adapting boreal streams to climate change: effects of riparian vegetation on water temperature and biological assemblages. <i>Freshwater Science</i> , 2016 , 35, 984-997	2	25
72	Identifying resilience mechanisms to recurrent ecosystem perturbations. <i>Oecologia</i> , 2010 , 164, 231-41	2.9	24
71	Regional Representativeness of Swedish Reference Lakes. <i>Environmental Management</i> , 1999 , 23, 115-124	3.1	24
70	Insight on Invasions and Resilience Derived from Spatiotemporal Discontinuities of Biomass at Local and Regional Scales. <i>Ecology and Society</i> , 2012 , 17,	4.1	23
69	A multimetric macroinvertebrate index for detecting organic pollution of streams in southern Sweden. <i>Archiv für Hydrobiologie</i> , 2004 , 160, 487-513		22
68	Nature as the "natural" goal for water management: a conversation. <i>Ambio</i> , 2009 , 38, 209-14	6.5	21
67	Development of a prediction system for lake stony-bottom littoral macroinvertebrate communities. <i>Archiv für Hydrobiologie</i> , 2003 , 158, 517-540		21
66	Similar resilience attributes in lakes with different management practices. <i>PLoS ONE</i> , 2014 , 9, e91881	3.7	20
65	Zooplankton feeding on the nuisance flagellate <i>Gonyostomum semen</i> . <i>PLoS ONE</i> , 2013 , 8, e62557	3.7	20
64	Multiscale drivers of water chemistry of boreal lakes and streams. <i>Environmental Management</i> , 2006 , 38, 760-70	3.1	20
63	Changes in phytoplankton, benthic invertebrate and fish assemblages of boreal lakes following invasion by <i>Gonyostomum semen</i> . <i>Freshwater Biology</i> , 2011 , 56, 1937-1948	3.1	19
62	Exploitation of sediment bacterial carbon by juveniles of the amphipod <i>Monoporeia affinis</i> . <i>Freshwater Biology</i> , 1994 , 32, 553-563	3.1	18
61	The life history, production and food habits of <i>Pontoporeia affinis</i> Lindström (Crustacea: Amphipoda) in mesotrophic Lake Erken. <i>Hydrobiologia</i> , 1987 , 144, 277-283	2.4	17
60	Assessing temporal scales and patterns in time series: Comparing methods based on redundancy analysis. <i>Ecological Complexity</i> , 2015 , 22, 162-168	2.6	16
59	Community structure in boreal lakes with recurring blooms of the nuisance flagellate <i>Gonyostomum semen</i> . <i>Aquatic Sciences</i> , 2013 , 75, 447-455	2.5	16
58	The fate of diatom carbon within a freshwater benthic community-a microcosm study. <i>Limnology and Oceanography</i> , 1997 , 42, 452-460	4.8	16
57	Modelling the importance of sediment bacterial carbon for profundal macroinvertebrates along a lake nutrient gradient. <i>Netherlands Journal of Aquatic Ecology</i> , 1992 , 26, 477-483		16

56	Using streamflow observations to estimate the impact of hydrological regimes and anthropogenic water use on European stream macroinvertebrate occurrences. <i>Ecohydrology</i> , 2017 , 10, e1895	2.5	15
55	Ordination of profundal zoobenthos along a trace metal pollution gradient in Northern Sweden. <i>Water, Air, and Soil Pollution</i> , 1992 , 65, 339-351	2.6	15
54	Long-term growth oscillations of <i>Pontoporeia affinis</i> Lindström (Crustacea: Amphipoda) in Lake Mälaren. <i>Hydrobiologia</i> , 1989 , 175, 183-194	2.4	15
53	Hierarchical dynamics of ecological communities: do scales of space and time match?. <i>PLoS ONE</i> , 2013 , 8, e69174	3.7	14
52	Patterns of temporal community turnover are spatially synchronous across boreal lakes. <i>Freshwater Biology</i> , 2012 , 57, 1782-1793	3.1	13
51	Algal invasions, blooms and biodiversity in lakes: Accounting for habitat-specific responses. <i>Harmful Algae</i> , 2013 , 23, 60-69	5.3	13
50	Approaches for integrated assessment of ecological and eutrophication status of surface waters in Nordic Countries. <i>Ambio</i> , 2016 , 45, 681-91	6.5	12
49	The impact of climate on the geographical distribution of phytoplankton species in boreal lakes. <i>Oecologia</i> , 2013 , 173, 1625-38	2.9	12
48	Spatial Patterns and Functional Redundancies in a Changing Boreal Lake Landscape. <i>Ecosystems</i> , 2015 , 18, 889-902	3.9	12
47	Partitioning spatial, environmental, and community drivers of ecosystem functioning. <i>Landscape Ecology</i> , 2019 , 34, 2371-2384	4.3	11
46	Linking degradation status with ecosystem vulnerability to environmental change. <i>Oecologia</i> , 2015 , 178, 899-913	2.9	11
45	Comparison of classification-then-modelling and species-by-species modelling for predicting lake phytoplankton assemblages. <i>Ecological Modelling</i> , 2012 , 231, 11-19	3	11
44	Representativity of a mid-lake surface water chemistry sample. <i>Environmental Monitoring and Assessment</i> , 2004 , 95, 221-38	3.1	11
43	Habitat-specific stability and persistence of benthic invertebrate communities in boreal lakes. <i>Fundamental and Applied Limnology</i> , 2008 , 171, 311-322	1.9	10
42	Relationships Between Macroinvertebrate Assemblages of Stony Littoral Habitats and Water Chemistry Variables Indicative of Acid-stress. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 323-330		10
41	Decomposing multiple pressure effects on invertebrate assemblages of boreal streams. <i>Ecological Indicators</i> , 2017 , 77, 293-303	5.8	9
40	The Structure of Riparian Vegetation in Agricultural Landscapes Influences Spider Communities and Aquatic-Terrestrial Linkages. <i>Water (Switzerland)</i> , 2020 , 12, 2855	3	9
39	Habitat patchiness, ecological connectivity and the uneven recovery of boreal stream ecosystems from an experimental drought. <i>Global Change Biology</i> , 2020 , 26, 3455-3472	11.4	9

38	Algal blooms increase heterotrophy at the base of boreal lake food webs-evidence from fatty acid biomarkers. <i>Limnology and Oceanography</i> , 2016 , 61, 1563-1573	4.8	9
37	Cross-taxon responses to elevated nutrients in European streams and lakes. <i>Aquatic Sciences</i> , 2014 , 76, 51-60	2.5	8
36	Disentangling the response of lake littoral invertebrate assemblages to multiple pressures. <i>Ecological Indicators</i> , 2018 , 85, 1149-1157	5.8	7
35	Modelling outperforms typologies for establishing reference conditions of boreal lake and stream invertebrate assemblages. <i>Ecological Indicators</i> , 2018 , 93, 864-873	5.8	6
34	Effects of Dispersal-Related Factors on Species Distribution Model Accuracy for Boreal Lake Ecosystems. <i>Diversity</i> , 2013 , 5, 393-408	2.5	6
33	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2021 ,	10	6
32	Interactions of <i>Monoporeia affinis</i> (Lindström) (Amphipoda) with sedentary Chironomidae. <i>Netherlands Journal of Aquatic Ecology</i> , 1992 , 26, 491-497		5
31	Special Section: Environmental Assessment meets Landscape Ecology meets Land use Planning. <i>Freshwater Biology</i> , 2007 , 52, 907-907	3.1	4
30	Assessing the Ecological Status of European Rivers and Lakes Using Benthic Invertebrate Communities: A Practical Catalogue of Metrics and Methods. <i>Water (Switzerland)</i> , 2021 , 13, 346	3	4
29	Stochastic processes and ecological connectivity drive stream invertebrate community responses to short-term drought. <i>Journal of Animal Ecology</i> , 2021 , 90, 886-898	4.7	4
28	Climate Change: Defining Reference Conditions and Restoring Freshwater Ecosystems 2010 , 203-235		3
27	Assessing the acidity of Swedish streams using benthic macroinvertebrates and weighted averaging (WA) regression and calibration. <i>Archiv für Hydrobiologie</i> , 2006 , 166, 343-362		3
26	Classification of littoral macroinvertebrate communities of Swedish reference lakes. <i>Verhandlungen Der Internationalen Vereinigung Für Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1993 , 25, 512-517		3
25	Forested Riparian Buffers Change the Taxonomic and Functional Composition of Stream Invertebrate Communities in Agricultural Catchments. <i>Water (Switzerland)</i> , 2021 , 13, 1028	3	3
24	Use of taxon-specific models of phytoplankton assemblage composition and biomass for detecting impact. <i>Ecological Indicators</i> , 2019 , 97, 447-456	5.8	3
23	Freshwater Ecosystem Responses to Climate Change: The Euro-Limpacs Project. <i>Water Quality Measurements Series</i> , 313-354		2
22	Indicators of ecological change: comparison of the early response of four organism groups to stress gradients 2006 , 139-152		2
21	Panarchy and management of lake ecosystems. <i>Ecology and Society</i> , 2021 , 26, 1-7	4.1	2

20	A Bayesian Belief Network learning tool integrates multi-scale effects of riparian buffers on stream invertebrates. <i>Science of the Total Environment</i> , 2021 , 810, 152146	10.2	2
19	The statistical power of selected indicator metrics using macroinvertebrates for assessing acidification and eutrophication of running waters 2000 , 233-243		2
18	The STAR project: context, objectives and approaches 2006 , 3-29		2
17	A comparison of the European Water Framework Directive physical typology and RIVPACS-type models as alternative methods of establishing reference conditions for benthic macroinvertebrates 2006 , 91-105		1
16	Assessing Acid Stress in Swedish Boreal and Alpine Streams Using Benthic Macroinvertebrates 2004 , 129-148		1
15	The importance of sampling effort for the assessment of ecological quality using macroinvertebrates. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 326-332		1
14	Species distribution models as a tool for early detection of the invasive <i>Raphidiopsis raciborskii</i> in European lakes.. <i>Harmful Algae</i> , 2022 , 113, 102202	5.3	1
13	Linking organism groups [major results and conclusions from the STAR project 2006 , 109-113		1
12	Contrasting responses of terrestrial and aquatic consumers in riparian stream networks to local and landscape level drivers of environmental change. <i>Basic and Applied Ecology</i> , 2021 ,	3.2	1
11	Detection of Organic Pollution of Streams in Southern Sweden Using Benthic Macroinvertebrates 2004 , 161-172		1
10	Phytoplankton size- and abundance-based resilience assessments reveal nutrient rather than water level effects. <i>Science of the Total Environment</i> , 2020 , 746, 141110	10.2	1
9	Responses of multiple structural and functional indicators along three contrasting disturbance gradients. <i>Ecological Indicators</i> , 2022 , 135, 108514	5.8	0
8	Relationships Between Macroinvertebrate Assemblages of Stony Littoral Habitats and Water Chemistry Variables Indicative of Acid-stress 2007 , 323-330		0
7	Local habitat is a strong determinant of spatial and temporal patterns of macrophyte diversity and composition in boreal lakes. <i>Freshwater Biology</i> , 2021 , 66, 1490-1501	3.1	0
6	Detection of ecological change using multiple organism groups: metrics and uncertainty 2006 , 115-137		
5	The effects of organic enrichment on leaf litter breakdown in three boreal streams. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2006 , 29, 1362-1366		
4	The use of biogeographical regions for partitioning variance of littoral macroinvertebrate communities. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 333-339		
3	Spatial scale of benthic macroinvertebrate communities in Swedish streams: variation partitioning using partial Canonical Correspondence Analysis. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000 , 27, 382-388		

- 2 The influence of season on the classification and ordination of profundal communities of nutrient poor, oligo-mesohumic Swedish lakes using environmental data. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **1990**, 24, 646-652
- 1 Estimates and comparisons of the effects of sampling variation using National Macroinvertebrate sampling protocols on the precision of metrics used to assess ecological status **2006**, 477-503