

# Richard K Johnson

## List of Publications by Year in descending order

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124  
papers

7,067  
citations

87843

38  
h-index

74108

75  
g-index

129  
all docs

129  
docs citations

129  
times ranked

6483  
citing authors

#	ARTICLE	IF	CITATIONS
1	SETTING EXPECTATIONS FOR THE ECOLOGICAL CONDITION OF STREAMS: THE CONCEPT OF REFERENCE CONDITION. , 2006, 16, 1267-1276.		823
2	The European Water Framework Directive at the age of 10: A critical review of the achievements with recommendations for the future. Science of the Total Environment, 2010, 408, 4007-4019.	3.9	756
3	Assessment of European streams with diatoms, macrophytes, macroinvertebrates and fish: a comparative metric-based analysis of organism response to stress. Freshwater Biology, 2006, 51, 1757-1785.	1.2	471
4	Towards sustainable land use: identifying and managing the conflicts between human activities and biodiversity conservation in Europe. Biodiversity and Conservation, 2005, 14, 1641-1661.	1.2	243
5	Evaluation of the use of landscape classifications for the prediction of freshwater biota: synthesis and recommendations. Journal of the North American Benthological Society, 2000, 19, 541-556.	3.0	235
6	The STAR project: context, objectives and approaches. Hydrobiologia, 2006, 566, 3-29.	1.0	188
7	The Development of a System to Assess the Ecological Quality of Streams Based on Macroinvertebrates " Design of the Sampling Programme within the AQEM Project. International Review of Hydrobiology, 2003, 88, 345-361.	0.5	184
8	Correcting a fundamental error in greenhouse gas accounting related to bioenergy. Energy Policy, 2012, 45, 18-23.	4.2	182
9	Ecological relationships between stream communities and spatial scale: implications for designing catchment-level monitoring programmes. Freshwater Biology, 2007, 52, 939-958.	1.2	138
10	Spatial scale and ecological relationships between the macroinvertebrate communities of stony habitats of streams and lakes. Freshwater Biology, 2004, 49, 1179-1194.	1.2	128
11	Detection of ecological change using multiple organism groups: metrics and uncertainty. Hydrobiologia, 2006, 566, 115-137.	1.0	124
12	Local, landscape and regional factors structuring benthic macroinvertebrate assemblages in Swedish streams. Landscape Ecology, 2004, 19, 501-515.	1.9	122
13	The Swedish monitoring of surface waters: 50 years of adaptive monitoring. Ambio, 2014, 43, 3-18.	2.8	120
14	Identifying, managing and monitoring conflicts between forest biodiversity conservation and other human interests in Europe. Forest Policy and Economics, 2005, 7, 877-890.	1.5	118
15	Response of taxonomic groups in streams to gradients in resource and habitat characteristics. Journal of Applied Ecology, 2009, 46, 175-186.	1.9	104
16	Pelagic-benthic coupling: Profundal benthic community response to spring diatom deposition in mesotrophic Lake Erken. Limnology and Oceanography, 1996, 41, 636-647.	1.6	103
17	Additive partitioning of aquatic invertebrate species diversity across multiple spatial scales. Freshwater Biology, 2005, 50, 1360-1375.	1.2	96
18	A global agenda for advancing freshwater biodiversity research. Ecology Letters, 2022, 25, 255-263.	3.0	95

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19	Ecoregions and benthic macroinvertebrate assemblages of Swedish streams. <i>Journal of the North American Benthological Society</i> , 2000, 19, 462-474.	3.0	94
20	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.	1.6	89
21	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.	3.9	81
22	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.	1.0	80
23	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.	3.0	78
24	Assessing and managing freshwater ecosystems vulnerable to environmental change. <i>Ambio</i> , 2014, 43, 113-125.	2.8	76
25	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.	1.2	72
26	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.	1.6	66
27	SPATIOTEMPORAL VARIABILITY OF TEMPERATE LAKE MACROINVERTEBRATE COMMUNITIES: DETECTION OF IMPACT. , 1998, 8, 61-70.		65
28	Linking Biodiversity, Ecosystem Functioning and Services, and Ecological Resilience. <i>Advances in Ecological Research</i> , 2015, 53, 55-96.	1.4	64
29	Title is missing!. <i>Hydrobiologia</i> , 2000, 422/423, 233-243.	1.0	58
30	Effects of agricultural land use on stream assemblages: Taxon-specific responses of alpha and beta diversity. <i>Ecological Indicators</i> , 2014, 45, 386-393.	2.6	57
31	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.	1.2	55
32	Indicators of ecological change: comparison of the early response of four organism groups to stress gradients. <i>Hydrobiologia</i> , 2006, 566, 139-152.	1.0	54
33	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.	1.2	49
34	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.	1.0	48
35	Spatial congruency of benthic diatom, invertebrate, macrophyte, and fish assemblages in European streams. <i>Ecological Applications</i> , 2010, 20, 978-992.	1.8	47
36	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.	3.9	47

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37	Detection of organic pollution of streams in southern Sweden using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004, 516, 161-172.	1.0	44
38	Linking organism groups â€“ major results and conclusions from the STAR project. <i>Hydrobiologia</i> , 2006, 566, 109-113.	1.0	43
39	Seasonal variation in diet of <i>Chironomus plumosus</i> (L.) and <i>C. anthracinus</i> Zett. (Diptera: Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.2	42
40	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.	1.9	42
41	Detection of ecological change in stream macroinvertebrate assemblages using single metric, multimetric or multivariate approaches. <i>Ecological Indicators</i> , 2009, 9, 659-669.	2.6	40
42	Effects of nutrient enrichment on boreal streams: invertebrates, fungi and leafâ€“litter breakdown. <i>Freshwater Biology</i> , 2007, 52, 1618-1633.	1.2	39
43	Temporal scales and patterns of invertebrate biodiversity dynamics in boreal lakes recovering from acidification. <i>Ecological Applications</i> , 2012, 22, 1172-1186.	1.8	39
44	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.	1.0	38
45	Spatial congruence between ecoregions and littoral macroinvertebrate assemblages. <i>Journal of the North American Benthological Society</i> , 2000, 19, 475-486.	3.0	37
46	Revealing the Organization of Complex Adaptive Systems through Multivariate Time Series Modeling. <i>Ecology and Society</i> , 2011, 16, .	1.0	37
47	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.	1.2	35
48	Assessing acid stress in Swedish boreal and alpine streams using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004, 516, 129-148.	1.0	35
49	Estimates and comparisons of the effects of sampling variation using â€“nationalâ€“ macroinvertebrate sampling protocols on the precision of metrics used to assess ecological status. <i>Hydrobiologia</i> , 2006, 566, 477-503.	1.0	33
50	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.	3.0	33
51	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.	2.2	32
52	Adapting boreal streams to climate change: effects of riparian vegetation on water temperature and biological assemblages. <i>Freshwater Science</i> , 2016, 35, 984-997.	0.9	32
53	A Novel Environmental Quality Criterion for Acidification in Swedish Lakes â€“ An Application of Studies on the Relationship Between Biota and Water Chemistry. <i>Water, Air and Soil Pollution</i> , 2007, 7, 331-338.	0.8	31
54	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.	3.0	30

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55	Optimizing stream bioassessment: habitat, season, and the impacts of land use on benthic macroinvertebrates. <i>Hydrobiologia</i> , 2013, 704, 363-373.	1.0	30
56	Assessing the ecological integrity of boreal streams: a comparison of functional and structural responses. <i>Fundamental and Applied Limnology</i> , 2007, 168, 113-125.	0.4	28
57	Development of a prediction system for lake stony-bottom littoral macroinvertebrate communities. <i>Archiv Für Hydrobiologie</i> , 2003, 158, 517-540.	1.1	27
58	Zooplankton Feeding on the Nuisance Flagellate <i>Gonyostomum semen</i> . <i>PLoS ONE</i> , 2013, 8, e62557.	1.1	27
59	Similar Resilience Attributes in Lakes with Different Management Practices. <i>PLoS ONE</i> , 2014, 9, e91881.	1.1	27
60	Invasion impacts and dynamics of a European-wide introduced species. <i>Global Change Biology</i> , 2022, 28, 4620-4632.	4.2	27
61	A multimetric macroinvertebrate index for detecting organic pollution of streams in southern Sweden. <i>Archiv Für Hydrobiologie</i> , 2004, 160, 487-513.	1.1	26
62	Identifying resilience mechanisms to recurrent ecosystem perturbations. <i>Oecologia</i> , 2010, 164, 231-241.	0.9	26
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.	1.2	26
64	Exploitation of sediment bacterial carbon by juveniles of the amphipod <i>Monoporeia affinis</i> . <i>Freshwater Biology</i> , 1994, 32, 553-563.	1.2	25
65	The fate of diatom carbon within a freshwater benthic community-a microcosm study. <i>Limnology and Oceanography</i> , 1997, 42, 452-460.	1.6	25
66	Regional Representativeness of Swedish Reference Lakes. <i>Environmental Management</i> , 1999, 23, 115-124.	1.2	25
67	Assessing temporal scales and patterns in time series: Comparing methods based on redundancy analysis. <i>Ecological Complexity</i> , 2015, 22, 162-168.	1.4	25
68	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.	1.0	24
69	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.	4.2	24
70	Nature as the "Natural" Goal for Water Management: A Conversation. <i>Ambio</i> , 2009, 38, 209-214.	2.8	23
71	Insight on Invasions and Resilience Derived from Spatiotemporal Discontinuities of Biomass at Local and Regional Scales. <i>Ecology and Society</i> , 2012, 17, .	1.0	23
72	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.	0.3	22

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73	Multiscale Drivers of Water Chemistry of Boreal Lakes and Streams. <i>Environmental Management</i> , 2006, 38, 760-770.	1.2	22
74	Long-term growth oscillations of <i>Pontoporeia affinis</i> Lindström (Crustacea: Amphipoda) in Lake Mjøzelen. <i>Hydrobiologia</i> , 1989, 175, 183-194.	1.0	20
75	Partitioning spatial, environmental, and community drivers of ecosystem functioning. <i>Landscape Ecology</i> , 2019, 34, 2371-2384.	1.9	20
76	Community structure in boreal lakes with recurring blooms of the nuisance flagellate <i>Gonyostomum semen</i> . <i>Aquatic Sciences</i> , 2013, 75, 447-455.	0.6	19
77	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.	1.1	19
78	Ordination of profundal zoobenthos along a trace metal pollution gradient in Northern Sweden. <i>Water, Air, and Soil Pollution</i> , 1992, 65, 339-351.	1.1	18
79	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.	1.2	18
80	Spatial Patterns and Functional Redundancies in a Changing Boreal Lake Landscape. <i>Ecosystems</i> , 2015, 18, 889-902.	1.6	17
81	Linking degradation status with ecosystem vulnerability to environmental change. <i>Oecologia</i> , 2015, 178, 899-913.	0.9	17
82	The impact of climate on the geographical distribution of phytoplankton species in boreal lakes. <i>Oecologia</i> , 2013, 173, 1625-1638.	0.9	16
83	The Structure of Riparian Vegetation in Agricultural Landscapes Influences Spider Communities and Aquatic-Terrestrial Linkages. <i>Water (Switzerland)</i> , 2020, 12, 2855.	1.2	15
84	Forested Riparian Buffers Change the Taxonomic and Functional Composition of Stream Invertebrate Communities in Agricultural Catchments. <i>Water (Switzerland)</i> , 2021, 13, 1028.	1.2	15
85	Hierarchical Dynamics of Ecological Communities: Do Scales of Space and Time Match?. <i>PLoS ONE</i> , 2013, 8, e69174.	1.1	15
86	Patterns of temporal community turnover are spatially synchronous across boreal lakes. <i>Freshwater Biology</i> , 2012, 57, 1782-1793.	1.2	14
87	Algal invasions, blooms and biodiversity in lakes: Accounting for habitat-specific responses. <i>Harmful Algae</i> , 2013, 23, 60-69.	2.2	14
88	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.	1.6	14
89	Approaches for integrated assessment of ecological and eutrophication status of surface waters in Nordic Countries. <i>Ambio</i> , 2016, 45, 681-691.	2.8	14
90	Stochastic processes and ecological connectivity drive stream invertebrate community responses to short-term drought. <i>Journal of Animal Ecology</i> , 2021, 90, 886-898.	1.3	14

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91	Representativity of a Mid-lake Surface Water Chemistry Sample. Environmental Monitoring and Assessment, 2004, 95, 221-238.	1.3	13
92	Disentangling the response of lake littoral invertebrate assemblages to multiple pressures. Ecological Indicators, 2018, 85, 1149-1157.	2.6	13
93	Habitat-specific stability and persistence of benthic invertebrate communities in boreal lakes. Fundamental and Applied Limnology, 2008, 171, 311-322.	0.4	12
94	Comparison of classification-then-modelling and species-by-species modelling for predicting lake phytoplankton assemblages. Ecological Modelling, 2012, 231, 11-19.	1.2	12
95	Decomposing multiple pressure effects on invertebrate assemblages of boreal streams. Ecological Indicators, 2017, 77, 293-303.	2.6	12
96	Relationships Between Macroinvertebrate Assemblages of Stony Littoral Habitats and Water Chemistry Variables Indicative of Acid-stress. Water, Air and Soil Pollution, 2007, 7, 323-330.	0.8	11
97	A Bayesian Belief Network learning tool integrates multi-scale effects of riparian buffers on stream invertebrates. Science of the Total Environment, 2022, 810, 152146.	3.9	9
98	Responses of multiple structural and functional indicators along three contrasting disturbance gradients. Ecological Indicators, 2022, 135, 108514.	2.6	9
99	Detection of ecological change using multiple organism groups: metrics and uncertainty. , 2006, , 115-137.		8
100	Cross-taxon responses to elevated nutrients in European streams and lakes. Aquatic Sciences, 2014, 76, 51-60.	0.6	8
101	Linking organism groups – major results and conclusions from the STAR project. , 2006, , 109-113.		8
102	Assessing Acid Stress in Swedish Boreal and Alpine Streams Using Benthic Macroinvertebrates. , 2004, , 129-148.		7
103	Panarchy and management of lake ecosystems. Ecology and Society, 2021, 26, 1-7.	1.0	7
104	Interactions of Monoporeia affinis (Lindström) (Amphipoda) with sedentary Chironomidae. Netherlands Journal of Aquatic Ecology, 1992, 26, 491-497.	0.3	6
105	Freshwater Ecosystem Responses to Climate Change: The Euro-Limpacs Project. Water Quality Measurements Series, 0, , 313-354.	0.1	6
106	Effects of Dispersal-Related Factors on Species Distribution Model Accuracy for Boreal Lake Ecosystems. Diversity, 2013, 5, 393-408.	0.7	6
107	Modelling outperforms typologies for establishing reference conditions of boreal lake and stream invertebrate assemblages. Ecological Indicators, 2018, 93, 864-873.	2.6	6
108	Use of taxon-specific models of phytoplankton assemblage composition and biomass for detecting impact. Ecological Indicators, 2019, 97, 447-456.	2.6	6

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109	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.	2.2	5
110	Special Section: Environmental Assessment meets Landscape Ecology meets Land use Planning. <i>Freshwater Biology</i> , 2007, 52, 907-907.	1.2	4
111	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, , .	1.2	4
112	Classification of littoral macroinvertebrate communities of Swedish reference lakes. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1993, 25, 512-517.	0.1	3
113	Assessing the acidity of Swedish streams using benthic macroinvertebrates and weighted averaging (WA) regression and calibration. <i>Archiv FÅ¼r Hydrobiologie</i> , 2006, 166, 343-362.	1.1	3
114	Phytoplankton size- and abundance-based resilience assessments reveal nutrient rather than water level effects. <i>Science of the Total Environment</i> , 2020, 746, 141110.	3.9	3
115	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.	1.2	3
116	The STAR project: context, objectives and approaches. , 2006, , 3-29.		3
117	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.		3
118	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.	0.1	2
119	Indicators of ecological change: comparison of the early response of four organism groups to stress gradients. , 2006, , 139-152.		2
120	The influence of season on the classification and ordination of profundal communities of nutrient poor, oligo-mesohumic Swedish lakes using environmental data. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1990, 24, 646-652.	0.1	1
121	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
122	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.	0.1	0
123	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, 382-383.	0.1	0
124	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.	0.1	0