Leonard Sandin

List of Publications by Citations

74 papers	3,646 citations	31 h-index	60 g-index
75 ext. papers	4,026 ext. citations	3.3 avg, IF	5.08 L-index

#	Paper	IF	Citations
74	Towards an assessment of multiple ecosystem processes and services via functional traits. *Biodiversity and Conservation*, **2010**, 19, 2873-2893	3.4	597
73	Overview and application of the AQEM assessment system. *Hydrobiologia*, **2004**, 516, 1-20	2.4	337
72	Quantifying the Contribution of Organisms to the Provision of Ecosystem Services. *BioScience*, **2009**, 59, 223-235	5.7	261
71	Indicators of biodiversity and ecosystem services: a synthesis across ecosystems and spatial scales. *Oikos*, **2009**, 118, 1862-1871	4	188
70	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	2.3	158
69	A comparative analysis reveals weak relationships between ecological factors and beta diversity of stream insect metacommunities at two spatial levels. *Ecology and Evolution*, **2015**, 5, 1235-48	2.8	132
68	Ecological relationships between stream communities and spatial scale: implications for designing catchment-level monitoring programmes. *Freshwater Biology*, **2007**, 52, 939-958	3.1	124
67	Spatial scale and ecological relationships between the macroinvertebrate communities of stony habitats of streams and lakes. *Freshwater Biology*, **2004**, 49, 1179-1194	3.1	115
66	Local, landscape and regional factors structuring benthic macroinvertebrate assemblages in Swedish streams. *Landscape Ecology*, **2004**, 19, 501-515	4.3	105
65	Metacommunity structure in a small boreal stream network. *Journal of Animal Ecology*, **2013**, 82, 449-58	4.7	99
64	Ecoregions and benthic macroinvertebrate assemblages of Swedish streams. *Journal of the North American Benthological Society*, **2000**, 19, 462-474		83
63	A hitchhiker's guide to European lake ecological assessment and intercalibration. *Ecological Indicators*, **2015**, 52, 533-544	5.8	74
62	Benthic macroinvertebrates in Swedish streams: community structure, taxon richness, and environmental relations. *Ecography*, **2003**, 26, 269-282	6.5	63
61	Climate Change and the Future of Freshwater Biodiversity in Europe: A Primer for Policy-Makers. *Freshwater Reviews: A Journal of the Freshwater Biological Association*, **2009**, 2, 103-130		62
60	The influence of environmental, biotic and spatial factors on diatom metacommunity structure in Swedish headwater streams. *PLoS ONE*, **2013**, 8, e72237	3.7	61
59	Freshwater ecosystem structurefunction relationships: from theory to application. *Freshwater Biology*, **2009**, 54, 2017-2024	3.1	60
58	Comparing macroinvertebrate indices to detect organic pollution across Europe: a contribution to the EC Water Framework Directive intercalibration. *Hydrobiologia*, **2004**, 516, 55-68	2.4	60

57	Benthic macroinvertebrates in lake ecological assessment: A review of methods, intercalibration and practical recommendations. *Science of the Total Environment*, **2016**, 543, 123-134	10.2	55
56	The statistical power of selected indicator metrics using macroinvertebrates for assessing acidification and eutrophication of running waters. *Hydrobiologia*, **2000**, 422/423, 233-243	2.4	55
55	Comparison of macroinvertebrate sampling methods in Europe. *Hydrobiologia*, **2006**, 566, 365-378	2.4	44
54	Effects of sampling and sub-sampling variation using the STAR-AQEM sampling protocol on the precision of macroinvertebrate metrics. *Hydrobiologia*, **2006**, 566, 441-459	2.4	43
53	Detection of organic pollution of streams in southern Sweden using benthic macroinvertebrates. *Hydrobiologia*, **2004**, 516, 161-172	2.4	42
52	Morphological alterations of lake shores in Europe: A multimetric ecological assessment approach using benthic macroinvertebrates. *Ecological Indicators*, **2013**, 34, 398-410	5.8	41
51	Does lake habitat alteration and land-use pressure homogenize European littoral macroinvertebrate communities?. *Journal of Applied Ecology*, **2013**, 50, 1010-1018	5.8	38
50	Assessing the relationship between the Lake Habitat Survey and littoral macroinvertebrate communities in European lakes. *Ecological Indicators*, **2013**, 25, 205-214	5.8	37
49	Effects of nutrient enrichment on boreal streams: invertebrates, fungi and leaf-litter breakdown. *Freshwater Biology*, **2007**, 52, 1618-1633	3.1	37
48	Macroinvertebrate indicators of lake acidification: analysis of monitoring data from UK, Norway and Sweden. *Aquatic Ecology*, **2008**, 42, 293-305	1.9	36
47	Strong land-use effects on the dispersal patterns of adult stream insects: implications for transfers of aquatic subsidies to terrestrial consumers. *Freshwater Biology*, **2016**, 61, 848-861	3.1	33
46	Littoral macroinvertebrates as indicators of lake acidification within the UK. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2010**, 20, S105-S116	2.6	33
45	The ecological status of European rivers: evaluation and intercalibration of assessment methods. *Hydrobiologia*, **2006**, 566, 1-2	2.4	33
44	Assessing acid stress in Swedish boreal and alpine streams using benthic macroinvertebrates. *Hydrobiologia*, **2004**, 516, 129-148	2.4	33
43	Estimates and comparisons of the effects of sampling variation using national macroinvertebrate sampling protocols on the precision of metrics used to assess ecological status. *Hydrobiologia*, **2006**, 566, 477-503	2.4	31
42	Biological quality metrics: their variability and appropriate scale for assessing streams. *Hydrobiologia*, **2006**, 566, 153-172	2.4	30
41	Assessing the effects of hydromorphological degradation on macroinvertebrate indicators in rivers: examples, constraints, and outlook. *Integrated Environmental Assessment and Management*, **2009**, 5, 86-96	2.5	29
40	Stream and river typologies major results and conclusions from the STAR project. *Hydrobiologia*, **2006**, 566, 33-37	2.4	28

39	A trait-based approach to assess climate change sensitivity of freshwater invertebrates across Swedish ecoregions. *Environmental Epigenetics*, **2014**, 60, 221-232	2.4	27
38	Effects of nutrient enrichment on C and N stable isotope ratios of invertebrates, fish and their food resources in boreal streams. *Hydrobiologia*, **2009**, 628, 67-79	2.4	27
37	Assessing the ecological integrity of boreal streams: a comparison of functional and structural responses. *Fundamental and Applied Limnology*, **2007**, 168, 113-125	1.9	27
36	Responses of macroinvertebrate communities to small dam removals: Implications for bioassessment and restoration. *Journal of Applied Ecology*, **2018**, 55, 1896-1907	5.8	25
35	The importance of spatial variation of benthic invertebrates for the ecological assessment of European lakes. *Fundamental and Applied Limnology*, **2012**, 180, 85-89	1.9	23
34	Changing Northern catchments: Is altered hydrology, temperature or both going to shape future stream communities and ecosystem processes?. *Hydrological Processes*, **2013**, 27, 734-740	3.3	21
33	The effects of catchment land-use, near-stream vegetation, and river hydromorphology on benthic macroinvertebrate communities in a south-Swedish catchment. *Fundamental and Applied Limnology* , **2009**, 174, 75-87	1.9	20
32	Relationships among biological elements (macrophytes, macroinvertebrates and ichthyofauna) for different core river types across Europe at two different spatial scales. *Hydrobiologia*, **2006**, 566, 75-90	2.4	16
31	Species traits reveal effects of land use, season and habitat on the potential subsidy of stream invertebrates to terrestrial food webs. *Aquatic Sciences*, **2018**, 80, 1	2.5	15
30	Impacts of habitat degradation and stream spatial location on biodiversity in a disturbed riverine landscape. *Biodiversity and Conservation*, **2015**, 24, 1423-1441	3.4	15
29	Catchment land-use effects on littoral macroinvertebrates in response to local habitat structure and trophic state. *Fundamental and Applied Limnology*, **2012**, 180, 111-121	1.9	15
28	Monitoring the Responses of Freshwater Ecosystems to Climate Change **2010**, 84-118		14
27	The relationship between land-use, hydromorphology and river biota at different spatial and temporal scales: a synthesis of seven case studies. *Fundamental and Applied Limnology*, **2009**, 174, 1-5	1.9	14
26	Overview and Application of the AQEM Assessment System **2004**, 1-20		13
25	Rivers of the Central European Highlands and Plains **2009**, 525-576		12
24	Flow restoration and the impacts of multiple stressors on fish communities in regulated rivers. *Journal of Applied Ecology*, **2019**, 56, 1687-1702	5.8	11
23	Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators*, **2019**, 98, 285-296	5.8	11
22	Nature-like fishways as compensatory lotic habitats. *River Research and Applications*, **2018**, 34, 253-261	2.3	10

21	Quantifying spatial scaling patterns and their local and regional correlates in headwater streams: implications for resilience. *Ecology and Society*, **2014**, 19,	4.1	10
20	Decomposing multiple pressure effects on invertebrate assemblages of boreal streams. *Ecological Indicators*, **2017**, 77, 293-303	5.8	9
19	An index of human alteration of lake shore morphology. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2015**, 25, 353-364	2.6	9
18	Climate Change and the Hydrology and Morphology of Freshwater Ecosystems **2010**, 65-83		9
17	Comparing Macroinvertebrate Indices to Detect Organic Pollution across Europe: A Contribution to the EC Water Framework Directive Intercalibration **2004**, 55-68		8
16	Headwater biodiversity among different levels of stream habitat hierarchy. *Biodiversity and Conservation*, **2014**, 23, 63-80	3.4	7
15	Effects of Dispersal-Related Factors on Species Distribution Model Accuracy for Boreal Lake Ecosystems. *Diversity*, **2013**, 5, 393-408	2.5	6
14	Country-wide analysis of large wood as a driver of fish abundance in Swedish streams: Which species benefit and where?. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **2019**, 29, 706-716	2.6	4
13	Spatial variation in lake benthic macroinvertebrate ecological assessment: a synthesis of European case studies. *Fundamental and Applied Limnology*, **2012**, 180, 185-191	1.9	4
12	Stream and river typologies major results and conclusions from the STAR project **2006**, 33-37		2
11	Assessing Acid Stress in Swedish Boreal and Alpine Streams Using Benthic Macroinvertebrates **2004**, 129-148		1
10	Detection of Organic Pollution of Streams in Southern Sweden Using Benthic Macroinvertebrates **2004**, 161-172		1
9	Gaps in current Baltic Sea environmental monitoring - Science versus management perspectives. *Marine Pollution Bulletin*, **2020**, 160, 111669	6.7	1
8	The ecological status of European rivers: evaluation and intercalibration of assessment methods **2006**, 1-2		1
7	Biological quality metrics: their variability and appropriate scale for assessing Streams **2006**, 153-172		1
6	Effects of sampling and sub-sampling variation using the STAR-AQEM sampling protocol on the precision of macroinvertebrate metrics **2006**, 441-459		0
5	Interactive effects of land use, river regulation, and climate on a key recreational fishing species in temperate and boreal streams. *Freshwater Biology*, **2021**, 66, 1901-1914	3.1	0
4	Biological Monitoring of North European Rivers. *Water Quality Measurements Series*, **2006**, 277-293		

3 The effects of organic enrichment on leaf litter breakdown in three boreal streams. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **2006**, 29, 1362-1366

2 Spatial scale of benthic macroinvertebrate communities in Swedish streams: variation partitioning using partial Canonical Correspondence Analysis. *Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology*, **2000**, 27, 382-383

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