

Leonard Sandin

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,510
citations

117453

34
h-index

133063

59
g-index

75
all docs

75
docs citations

75
times ranked

5778
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards an assessment of multiple ecosystem processes and services via functional traits. <i>Biodiversity and Conservation</i> , 2010, 19, 2873-2893.	1.2	759
2	Overview and application of the AQEM assessment system. <i>Hydrobiologia</i> , 2004, 516, 1-20.	1.0	373
3	Quantifying the Contribution of Organisms to the Provision of Ecosystem Services. <i>BioScience</i> , 2009, 59, 223-235.	2.2	312
4	Indicators of biodiversity and ecosystem services: a synthesis across ecosystems and spatial scales. <i>Oikos</i> , 2009, 118, 1862-1871.	1.2	225
5	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.	0.5	184
6	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, 1235-1248.	0.8	167
7	Ecological relationships between stream communities and spatial scale: implications for designing catchment-level monitoring programmes. <i>Freshwater Biology</i> , 2007, 52, 939-958.	1.2	138
8	Spatial scale and ecological relationships between the macroinvertebrate communities of stony habitats of streams and lakes. <i>Freshwater Biology</i> , 2004, 49, 1179-1194.	1.2	128
9	Local, landscape and regional factors structuring benthic macroinvertebrate assemblages in Swedish streams. <i>Landscape Ecology</i> , 2004, 19, 501-515.	1.9	122
10	Metacommunity structure in a small boreal stream network. <i>Journal of Animal Ecology</i> , 2013, 82, 449-458.	1.3	120
11	A hitchhiker's guide to European lake ecological assessment and intercalibration. <i>Ecological Indicators</i> , 2015, 52, 533-544.	2.6	96
12	Ecoregions and benthic macroinvertebrate assemblages of Swedish streams. <i>Journal of the North American Benthological Society</i> , 2000, 19, 462-474.	3.0	94
13	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
14	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
15	Freshwater ecosystem structure–function relationships: from theory to application. <i>Freshwater Biology</i> , 2009, 54, 2017-2024.	1.2	70
16	The Influence of Environmental, Biotic and Spatial Factors on Diatom Metacommunity Structure in Swedish Headwater Streams. <i>PLoS ONE</i> , 2013, 8, e72237.	1.1	70
17	Benthic macroinvertebrates in Swedish streams: community structure, taxon richness, and environmental relations. <i>Ecography</i> , 2003, 26, 269-282.	2.1	69
18	Comparing macroinvertebrate indices to detect organic pollution across Europe: a contribution to the EC Water Framework Directive intercalibration. <i>Hydrobiologia</i> , 2004, 516, 55-68.	1.0	61

#	ARTICLE	IF	CITATIONS
19	Title is missing!. <i>Hydrobiologia</i> , 2000, 422/423, 233-243.	1.0	58
20	Overview and Application of the AQEM Assessment System. , 2004, , 1-20.		57
21	Morphological alterations of lake shores in Europe: A multimetric ecological assessment approach using benthic macroinvertebrates. <i>Ecological Indicators</i> , 2013, 34, 398-410.	2.6	55
22	Does lake habitat alteration and land-use pressure homogenize European littoral macroinvertebrate communities?. <i>Journal of Applied Ecology</i> , 2013, 50, 1010-1018.	1.9	55
23	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
24	Macroinvertebrate indicators of lake acidification: analysis of monitoring data from UK, Norway and Sweden. <i>Aquatic Ecology</i> , 2008, 42, 293-305.	0.7	53
25	Comparison of macroinvertebrate sampling methods in Europe. <i>Hydrobiologia</i> , 2006, 566, 365-378.	1.0	50
26	The ecological status of European rivers: evaluation and intercalibration of assessment methods. <i>Hydrobiologia</i> , 2006, 566, 1-2.	1.0	47
27	Effects of sampling and sub-sampling variation using the STAR-AQEM sampling protocol on the precision of macroinvertebrate metrics. <i>Hydrobiologia</i> , 2006, 566, 441-459.	1.0	45
28	Detection of organic pollution of streams in southern Sweden using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004, 516, 161-172.	1.0	44
29	Assessing the relationship between the Lake Habitat Survey and littoral macroinvertebrate communities in European lakes. <i>Ecological Indicators</i> , 2013, 25, 205-214.	2.6	44
30	Littoral macroinvertebrates as indicators of lake acidification within the UK. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2010, 20, S105.	0.9	43
31	Effects of nutrient enrichment on boreal streams: invertebrates, fungi and leaf-litter breakdown. <i>Freshwater Biology</i> , 2007, 52, 1618-1633.	1.2	39
32	A trait-based approach to assess climate change sensitivity of freshwater invertebrates across Swedish ecoregions. <i>Environmental Epigenetics</i> , 2014, 60, 221-232.	0.9	39
33	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
34	Assessing the effects of hydromorphological degradation on macroinvertebrate indicators in rivers: examples, constraints, and outlook. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 86-96.	1.6	37
35	Responses of macroinvertebrate communities to small dam removals: Implications for bioassessment and restoration. <i>Journal of Applied Ecology</i> , 2018, 55, 1896-1907.	1.9	36
36	Assessing acid stress in Swedish boreal and alpine streams using benthic macroinvertebrates. <i>Hydrobiologia</i> , 2004, 516, 129-148.	1.0	35

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37	Estimates and comparisons of the effects of sampling variation using "national" macroinvertebrate sampling protocols on the precision of metrics used to assess ecological status. <i>Hydrobiologia</i> , 2006, 566, 477-503.	1.0	33
38	Biological quality metrics: their variability and appropriate scale for assessing streams. <i>Hydrobiologia</i> , 2006, 566, 153-172.	1.0	33
39	Stream and river typologies " major results and conclusions from the STAR project. <i>Hydrobiologia</i> , 2006, 566, 33-37.	1.0	32
40	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
41	The importance of spatial variation of benthic invertebrates for the ecological assessment of European lakes. <i>Fundamental and Applied Limnology</i> , 2012, 180, 85-89.	0.4	25
42	The effects of catchment land-use, near-stream vegetation, and river hydromorphology on benthic macroinvertebrate communities in a south-Swedish catchment. <i>Fundamental and Applied Limnology</i> , 2009, 174, 75-87.	0.4	23
43	Catchment land-use effects on littoral macroinvertebrates in response to local habitat structure and trophic state. <i>Fundamental and Applied Limnology</i> , 2012, 180, 111-121.	0.4	21
44	Changing Northern catchments: Is altered hydrology, temperature or both going to shape future stream communities and ecosystem processes?. <i>Hydrological Processes</i> , 2013, 27, 734-740.	1.1	21
45	Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. <i>Ecological Indicators</i> , 2019, 98, 285-296.	2.6	21
46	Impacts of habitat degradation and stream spatial location on biodiversity in a disturbed riverine landscape. <i>Biodiversity and Conservation</i> , 2015, 24, 1423-1441.	1.2	20
47	Flow restoration and the impacts of multiple stressors on fish communities in regulated rivers. <i>Journal of Applied Ecology</i> , 2019, 56, 1687-1702.	1.9	20
48	Relationships among biological elements (macrophytes, macroinvertebrates and ichthyofauna) for different core river types across Europe at two different spatial scales. <i>Hydrobiologia</i> , 2006, 566, 75-90.	1.0	19
49	Species traits reveal effects of land use, season and habitat on the potential subsidy of stream invertebrates to terrestrial food webs. <i>Aquatic Sciences</i> , 2018, 80, 1.	0.6	19
50	The relationship between land-use, hydromorphology and river biota at different spatial and temporal scales: a synthesis of seven case studies. <i>Fundamental and Applied Limnology</i> , 2009, 174, 1-5.	0.4	18
51	Rivers of the Central European Highlands and Plains. , 2009, , 525-576.		16
52	Nature-like fishways as compensatory lotic habitats. <i>River Research and Applications</i> , 2018, 34, 253-261.	0.7	16
53	An index of human alteration of lake shore morphology. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2015, 25, 353-364.	0.9	13
54	Biological quality metrics: their variability and appropriate scale for assessing Streams. , 2006, , 153-172.		13

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55	Comparing Macroinvertebrate Indices to Detect Organic Pollution across Europe: A Contribution to the EC Water Framework Directive Intercalibration. , 2004, , 55-68.		13
56	Quantifying spatial scaling patterns and their local and regional correlates in headwater streams: implications for resilience. Ecology and Society, 2014, 19, .	1.0	12
57	Decomposing multiple pressure effects on invertebrate assemblages of boreal streams. Ecological Indicators, 2017, 77, 293-303.	2.6	12
58	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.	0.9	9
59	Gaps in current Baltic Sea environmental monitoring – Science versus management perspectives. Marine Pollution Bulletin, 2020, 160, 111669.	2.3	8
60	Assessing Acid Stress in Swedish Boreal and Alpine Streams Using Benthic Macroinvertebrates. , 2004, , 129-148.		7
61	Headwater biodiversity among different levels of stream habitat hierarchy. Biodiversity and Conservation, 2014, 23, 63-80.	1.2	7
62	Effects of sampling and sub-sampling variation using the STAR-AQEM sampling protocol on the precision of macroinvertebrate metrics. , 2006, , 441-459.		7
63	Effects of Dispersal-Related Factors on Species Distribution Model Accuracy for Boreal Lake Ecosystems. Diversity, 2013, 5, 393-408.	0.7	6
64	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.	1.2	5
65	Spatial variation in lake benthic macroinvertebrate ecological assessment: a synthesis of European case studies. Fundamental and Applied Limnology, 2012, 180, 185-191.	0.4	4
66	Stream and river typologies – major results and conclusions from the STAR project. , 2006, , 33-37.		3
67	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
68	The ecological status of European rivers: evaluation and intercalibration of assessment methods. , 2006, , 1-2.		2
69	Hydromorphology: Overview and Assessment Methods. , 2022, , 84-97.		1
70	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.	0.1	0
71	Biological Monitoring of North European Rivers. Water Quality Measurements Series, 2006, , 277-293.	0.1	0
72	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.	0.1	0