Dean Jacobsen

List of Publications by Year
in descending order

90 papers	4,427 citations	117453 34 h-index	114278 63 g-index
92 all docs	92 docs citations	92 times ranked	4495 citing authors

#	Article	IF	Citations
1	Glacier shrinkage driving global changes in downstream systems. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9770-9778.	3.3	381
2	Toward mountains without permanent snow and ice. Earth's Future, 2017, 5, 418-435.	2.4	324
3	Biodiversity under threat in glacier-fed riverÂsystems. Nature Climate Change, 2012, 2, 361-364.	8.1	265
4	Structure and diversity of stream invertebrate assemblages: the influence of temperature with altitude and latitude. Freshwater Biology, 1997, 38, 247-261.	1.2	231
5	Rapid decline of snow and ice in the tropical Andes â€" Impacts, uncertainties and challenges ahead. Earth-Science Reviews, 2018, 176, 195-213.	4.0	203
6	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, 1235-1248.	0.8	167
7	Feeding plasticity of two detritivore-shredders. Freshwater Biology, 1994, 32, 133-142.	1.2	158
8	The legacy of pesticide pollution: An overlooked factor in current risk assessments of freshwater systems. Water Research, 2015, 84, 25-32.	5.3	130
9	Climate change and alpine stream biology: progress, challenges, and opportunities for the future. Biological Reviews, 2017, 92, 2024-2045.	4.7	118
10	Low oxygen pressure as a driving factor for the altitudinal decline in taxon richness of stream macroinvertebrates. Oecologia, 2008, 154, 795-807.	0.9	101
11	Contrasting patterns in local and zonal family richness of stream invertebrates along an Andean altitudinal gradient. Freshwater Biology, 2004, 49, 1293-1305.	1.2	96
12	Are macroinvertebrates in high altitude streams affected by oxygen deficiency?. Freshwater Biology, 2003, 48, 2025-2032.	1.2	81
13	Ecosystem sentinels for climate change? Evidence of wetland cover changes over the last 30 years in the tropical Andes. PLoS ONE, 2017, 12, e0175814.	1.1	80
14	The macroinvertebrate fauna of Ecuadorian highland streams in the wet and dry season. Fundamental and Applied Limnology, 1998, 142, 53-70.	0.4	77
15	Environmental harshness and global richness patterns in glacierâ€fed streams. Global Ecology and Biogeography, 2012, 21, 647-656.	2.7	72
16	Effects of deforestation on macroinvertebrate diversity and assemblage structure in Ecuadorian Amazon streams. Archiv FÃ¼r Hydrobiologie, 2003, 158, 317-342.	1.1	70
17	Aquatic community structure across an Andesâ€toâ€Amazon fluvial gradient. Journal of Biogeography, 2013, 40, 1715-1728.	1.4	66
18	Biodiversity Patterns and Continental Insularity in the Tropical High Andes. Arctic, Antarctic, and Alpine Research, 2014, 46, 811-828.	0.4	66

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19	Invertebrate Metacommunity Structure and Dynamics in an Andean Glacial Stream Network Facing Climate Change. PLoS ONE, 2015, 10, e0136793.	1.1	66
20	Altitudinal changes in diversity of macroinvertebrates from small streams in the Ecuadorian Andes. Archiv FÃ¼r Hydrobiologie, 2003, 158, 145-167.	1.1	65
21	Variation in growth of the detritivore-shredder Sericostoma personatum (Trichoptera). Freshwater Biology, 1999, 42, 625-635.	1.2	63
22	Testing the stressâ€gradient hypothesis with aquatic detritivorous invertebrates: insights for biodiversityâ€ecosystem functioning research. Journal of Animal Ecology, 2012, 81, 1259-1267.	1.3	61
23	Tropical High-Altitude Streams. , 2008, , 219-VIII.		60
24	Insects in highâ€elevation streams: Life in extreme environments imperiled by climate change. Global Change Biology, 2020, 26, 6667-6684.	4.2	57
25	Ecological responses to experimental glacier-runoff reduction in alpine rivers. Nature Communications, 2016, 7, 12025.	5.8	56
26	The effect of organic pollution on the macroinvertebrate fauna of Ecuadorian highland streams. Fundamental and Applied Limnology, 1998, 143, 179-195.	0.4	53
27	Herbivory of invertebrates on submerged macrophytes from Danish freshwaters. Freshwater Biology, 1992, 28, 301-308.	1.2	51
28	Longitudinal zonation of macroinvertebrates in an Ecuadorian glacierâ€fed stream: do tropical glacial systems fit the temperate model?. Freshwater Biology, 2010, 55, 1234-1248.	1.2	50
29	Bolivian Altiplano streams with low richness of macroinvertebrates and large diel fluctuations in temperature and dissolved oxygen. Aquatic Ecology, 2008, 42, 643-656.	0.7	48
30	Runoff and the longitudinal distribution of macroinvertebrates in a glacierâ€fed stream: implications for the effects of global warming. Freshwater Biology, 2014, 59, 2038-2050.	1.2	48
31	Predicting richness effects on ecosystem function in natural communities: insights from high-elevation streams. Ecology, 2011, 92, 733-743.	1.5	47
32	Macroinvertebrates: Composition, Life Histories and Production. , 2008, , 65-105.		45
33	The dilemma of altitudinal shifts: caught between high temperature and low oxygen. Frontiers in Ecology and the Environment, 2020, 18, 211-218.	1.9	45
34	A global perspective on the application of riverine macroinvertebrates as biological indicators in Africa, South-Central America, Mexico and Southern Asia. Ecological Indicators, 2021, 126, 107609.	2.6	44
35	The effect of brown trout (Salmo Trutta L.) on stream invertebrate drift, with special reference to Gammarus pulex L.. Hydrobiologia, 1994, 294, 105-110.	1.0	43
36	Are altitudinal limits of equatorial stream insects reflected in their respiratory performance?. Freshwater Biology, 2008, 53, 2295-2308.	1.2	39

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37	Herbivory and Resulting Plant Damage. Oikos, 1994, 69, 545.	1.2	38
38	Specialized meltwater biodiversity persists despite widespread deglaciation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12208-12214.	3.3	37
39	Spatial variability in macroinvertebrate assemblages along and among neighbouring equatorial glacier-fed streams. Freshwater Biology, 2011, 56, 2226-2244.	1.2	35
40	Invertebrate herbivory on the submerged macrophyte Potamogeton perfoliatus in a Danish stream. Freshwater Biology, 1994, 31, 43-52.	1.2	34
41	Respiration Rate of Stream Insects Measured in situ Along a Large Altitude Range. Hydrobiologia, 2005, 549, 79-98.	1.0	32
42	Ecology of High Altitude Waters. , 2017, , .		32
43	Technical Note: Glacial influence in tropical mountain hydrosystems evidenced by the diurnal cycle in water levels. Hydrology and Earth System Sciences, 2013, 17, 4803-4816.	1.9	28
44	Growth and energetics of a trichopteran larva feeding on fresh submerged and terrestrial plants. Oecologia, 1994, 97, 412-418.	0.9	27
45	Gill size of trichopteran larvae and oxygen supply in streams along a 4000-m gradient of altitude. Journal of the North American Benthological Society, 2000, 19, 329-343.	3.0	27
46	Relationships between stream macroinvertebrate communities and new floodâ€based indices of glacial influence. Freshwater Biology, 2014, 59, 1916-1925.	1.2	27
47	Altitudinal distribution limits of aquatic macroinvertebrates: an experimental test in a tropical alpine stream. Ecological Entomology, 2015, 40, 629-638.	1.1	27
48	Ecosystem structure and function of afrotropical streams with contrasting land use. Freshwater Biology, 2018, 63, 1498-1513.	1.2	26
49	Temporal variability in discharge and benthic macroinvertebrate assemblages in a tropical glacier-fed stream. Freshwater Science, 2014, 33, 32-45.	0.9	25
50	Aquatic macrophytes in cool aseasonal and seasonal streams: a comparison between Ecuadorian highland and Danish lowland streams. Aquatic Botany, 2001, 71, 281-295.	0.8	24
51	Multiâ€taxa colonisation along the foreland of a vanishing equatorial glacier. Ecography, 2021, 44, 1010-1021.	2.1	24
52	Chironomid (Diptera) distribution and diversity in Tibetan streams with different glacial influence. Insect Conservation and Diversity, 2012, 5, 319-326.	1.4	23
53	Temporally variable macroinvertebrateâ€"stone relationships in streams. Hydrobiologia, 2005, 544, 201-214.	1.0	21
54	Direct and indirect effects of glaciers on aquatic biodiversity in high Andean peatlands. Global Change Biology, 2016, 22, 3196-3205.	4.2	20

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55	Temperature and spatial connectivity drive patterns in freshwater macroinvertebrate diversity across the Arctic. Freshwater Biology, 2022, 67, 159-175.	1.2	19
56	Temperature increase and respiratory performance of macroinvertebrates with different tolerances to organic pollution. Limnologica, 2013, 43, 510-515.	0.7	17
57	Spatial and temporal variation of benthic macroinvertebrate assemblages during the glacial melt season in an Italian glacier-fed stream. Hydrobiologia, 2019, 827, 123-139.	1.0	17
58	Variability of invertebrate herbivory on the submerged macrophyte Potamogeton perfoliatus. Freshwater Biology, 1995, 34, 357-365.	1.2	16
59	Glacial-fed and pÃ¡ramo lake ecosystems in the tropical high Andes. Hydrobiologia, 2018, 813, 19-32.	1.0	16
60	Glacial flood pulse effects on benthic fauna in equatorial high-Andean streams. Hydrological Processes, 2013, 28, n/a-n/a.	1.1	14
61	Egg development of <scp>P</scp>lecoptera, <scp>E</scp>phemeroptera and <scp>O</scp>donata along latitudinal gradients. Ecological Entomology, 2014, 39, 177-185.	1.1	14
62	Food preference of the trichopteran larva Anabolia nervosa from two streams with different food availability. Hydrobiologia, 1995, 308, 139-144.	1.0	12
63	Macroinvertebrate drift in Amazon streams in relation to riparian forest cover and fish fauna. Fundamental and Applied Limnology, 2002, 155, 177-197.	0.4	12
64	Herbivory and growth in terrestrial and aquatic populations of amphibious stream plants. Freshwater Biology, 2002, 47, 1475-1487.	1.2	11
65	Functional structure and diversity of invertebrate communities in a glacierised catchment of the tropical Andes. Freshwater Biology, 2020, 65, 1348-1362.	1.2	11
66	Diversity and composition of macroinvertebrate assemblages in high-altitude Tibetan streams. Inland Waters, 2015, 5, 263-274.	1.1	10
67	Temporal scaling of high flow effects on benthic fauna: Insights from equatorial glacierâ€‘fed streams. Limnology and Oceanography, 2015, 60, 1836-1847.	1.6	10
68	The altitudinal limit of<i>Leptohyphes</i>Eaton, 1882 and<i>Lachlania</i>Hagen, 1868 (Ephemeroptera:) Tj ETQq0 0 0 rgBT /Overlock 1 Insects, 2016, 37, 69-86.	0.6	10
69	Growth and feeding of 0+ Brown Trout (Salmo trutta L.) introduced to two small Danish streams. Archiv FÃ¼r Hydrobiologie, 1992, 125, 339-346.	1.1	9
70	Trichopteran Larvae as Consumers of Submerged Angiosperms in Running Waters. Oikos, 1993, 67, 379.	1.2	8
71	Anthropogenically impacted lake catchments in Denmark reveal low microplastic pollution. Environmental Science and Pollution Research, 2022, 29, 47726-47739.	2.7	8
72	Sacred fish: on beliefs, fieldwork, and freshwater food webs in Tibet. Frontiers in Ecology and the Environment, 2013, 11, 50-51.	1.9	7

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73	Ecological effects of introduced rainbow trout (Oncorhynchus mykiss) in pristine Ecuadorian high Andean lakes. Fundamental and Applied Limnology, 2018, 191, 323-337.	0.4	7
74	History of limnology in Ecuador: a foundation for a growing field in the country. Hydrobiologia, 2020, 847, 4191-4206.	1.0	7
75	The influence of environmental factors and dredging on chironomid larval diversity in urban drainage systems in polders strongly influenced by seepage from large rivers. Journal of the North American Benthological Society, 2011, 30, 1074-1092.	3.0	6
76	Low species richness of non-biting midges (Diptera: Chironomidae) in Neotropical artificial urban water bodies. Urban Ecosystems, 2011, 14, 457-468.	1.1	5
77	Are latitudinal richness gradients in European freshwater species only structured according to dispersal and time?. Ecography, 2016, 39, 1247-1249.	2.1	5
78	Macroinvertebrate communities along the main stem and tributaries of a pre-Alpine river: composition responds to altitude, richness does not. Limnologica, 2020, 84, 125816.	0.7	5
79	Effects of pollution-induced changes in oxygen conditions scaling up from individuals to ecosystems in a tropical river network. Science of the Total Environment, 2022, 814, 151958.	3.9	5
80	A long-term improvement in Danish stream fauna: Analyses of temporal dynamics and community alignment of a biotic index. Ecological Indicators, 2017, 81, 47-53.	2.6	4
81	Fish on the roof of the world: densities, habitats and trophic position of stone loaches (Triplophysa) in Tibetan streams. Marine and Freshwater Research, 2017, 68, 53.	0.7	4
82	Environmental and spatial filters of zooplankton metacommunities in shallow pools in highâ€elevation peatlands in the tropical Andes. Freshwater Biology, 2018, 63, 432-442.	1.2	4
83	Aquatic biota responses to temperature in a high Andean geothermal stream. Freshwater Biology, 2021, 66, 1889-1900.	1.2	4
84	Chironomidae (Insecta: Diptera) of Ecuadorian Highaltitude Streams: A Survey and Illustrated Key. Florida Entomologist, 2018, 101, 663.	0.2	4
85	Food preference of the caddis larva <i>Anabolia nervosa</i> feeding on aquatic macrophytes. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1994, 25, 2478-2481.	0.1	3
86	Functional Feeding Groups of Macrofauna and Detritus Decomposition along a Gradient of Glacial Meltwater Influence in Tropical High-Andean Streams. Water (Switzerland), 2021, 13, 3303.	1.2	3
87	Small Hydropowerâ€"Small Ecological Footprint? A Multi-Annual Environmental Impact Analysis Using Aquatic Macroinvertebrates as Bioindicators. Part 1: Effects on Community Structure. Frontiers in Environmental Science, 0, 10, .	1.5	3
88	Classical alpine stream types on the equator: are they different?. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2009, 30, 1245-1250.	0.1	1
89	Macroinvertebrate assemblages in mountain tributaries of glacial-fed and rain-fed rivers in eastern Nepal. Nepal Journal of Environmental Science, 2021, 9, 45-55.	0.3	1
90	Excretion from the benthic macrofauna covers little of spring nutrient uptake in a small Danish forest stream. Inland Waters, 0, , 1-8.	1.1	0