

Steven A J Declerck

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112
papers

5,462
citations

39
h-index

72
g-index

119
ext. papers

6,219
ext. citations

4
avg, IF

5.34
L-index

#	Paper	IF	Citations
112	Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. <i>Ecology Letters</i> , 2012 , 15, 740-7	10	403
111	The power of species sorting: local factors drive bacterial community composition over a wide range of spatial scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20404-9	11.5	327
110	Impacts of climate warming on lake fish community structure and potential effects on ecosystem function. <i>Hydrobiologia</i> , 2010 , 646, 73-90	2.4	292
109	Ponds and pools as model systems in conservation biology, ecology and evolutionary biology. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2005 , 15, 715-725	2.6	290
108	Small habitat size and isolation can promote species richness: second-order effects on biodiversity in shallow lakes and ponds. <i>Oikos</i> , 2006 , 112, 227-231	4	267
107	Ecological characteristics of small farmland ponds: Associations with land use practices at multiple spatial scales. <i>Biological Conservation</i> , 2006 , 131, 523-532	6.2	192
106	The ecology of European ponds: defining the characteristics of a neglected freshwater habitat. <i>Hydrobiologia</i> , 2008 , 597, 1-6	2.4	187
105	Dispersal ability determines the role of environmental, spatial and temporal drivers of metacommunity structure. <i>PLoS ONE</i> , 2014 , 9, e111227	3.7	178
104	MULTI-GROUP BIODIVERSITY IN SHALLOW LAKES ALONG GRADIENTS OF PHOSPHORUS AND WATER PLANT COVER. <i>Ecology</i> , 2005 , 86, 1905-1915	4.6	172
103	Scale dependency of processes structuring metacommunities of cladocerans in temporary pools of High-Andes wetlands. <i>Ecography</i> , 2011 , 34, 296-305	6.5	136
102	Characterization of bacterial communities in four freshwater lakes differing in nutrient load and food web structure. <i>FEMS Microbiology Ecology</i> , 2005 , 53, 205-20	4.3	131
101	Hatching of cladoceran resting eggs: temperature and photoperiod. <i>Freshwater Biology</i> , 2005 , 50, 96-104.	3.1	116
100	Stoichiometric regulation of phytoplankton toxins. <i>Ecology Letters</i> , 2014 , 17, 736-42	10	106
99	Effects of dispersal and environmental heterogeneity on the replacement and nestedness components of diversity. <i>Ecology</i> , 2017 , 98, 525-533	4.6	96
98	Plankton biodiversity along a gradient of productivity and its mediation by macrophytes. <i>Ecology</i> , 2007 , 88, 2199-210	4.6	96
97	Rapid screening for freshwater bacterial groups by using reverse line blot hybridization. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 5875-83	4.8	92
96	Subfossil Cladocera in relation to contemporary environmental variables in 54 Pan-European lakes. <i>Freshwater Biology</i> , 2009 , 54, 2401-2417	3.1	84

95	Effects of connectivity, dispersal directionality and functional traits on the metacommunity structure of river benthic diatoms. <i>Journal of Biogeography</i> , 2013 , 40, 2238-2248	4.1	83
94	Ecological implications of parasites in natural Daphnia populations. <i>Oecologia</i> , 2005 , 144, 382-90	2.9	77
93	Integrative Taxonomy Recognizes Evolutionary Units Despite Widespread Mitonuclear Discordance: Evidence from a Rotifer Cryptic Species Complex. <i>Systematic Biology</i> , 2016 , 65, 508-24	8.4	74
92	Effect of macrophyte community composition and nutrient enrichment on plant biomass and algal blooms. <i>Basic and Applied Ecology</i> , 2010 , 11, 432-439	3.2	70
91	Patterns of diet overlap between populations of non-indigenous and native fishes in shallow ponds. <i>Journal of Fish Biology</i> , 2002 , 61, 1182-1197	1.9	64
90	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
89	Dispersal-mediated trophic interactions can generate apparent patterns of dispersal limitation in aquatic metacommunities. <i>Ecology Letters</i> , 2012 , 15, 218-26	10	61
88	Correlates of zooplankton beta diversity in tropical lake systems. <i>PLoS ONE</i> , 2014 , 9, e109581	3.7	60
87	Use of ephippial morphology to assess richness of anomopods: potentials and pitfalls. <i>Journal of Limnology</i> , 2004 , 63, 75	1.5	59
86	Phenotypic plasticity of Daphnia life history traits in response to predator kairomones: genetic variability and evolutionary potential. <i>Hydrobiologia</i> , 1997 , 360, 89-99	2.4	57
85	Effects of patch connectivity and heterogeneity on metacommunity structure of planktonic bacteria and viruses. <i>ISME Journal</i> , 2013 , 7, 533-42	11.9	51
84	Rapid adaptation of herbivore consumers to nutrient limitation: eco-evolutionary feedbacks to population demography and resource control. <i>Ecology Letters</i> , 2015 , 18, 553-62	10	50
83	The genetic legacy of polyploid Bolivian Daphnia: the tropical Andes as a source for the North and South American D. pulicaria complex. <i>Molecular Ecology</i> , 2008 , 17, 1789-800	5.7	50
82	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (CAFE) approach. <i>Ecology Letters</i> , 2018 , 21, 167-180	10	48
81	A comparative analysis of cladoceran communities from different water body types: patterns in community composition and diversity. <i>Hydrobiologia</i> , 2008 , 597, 19-27	2.4	47
80	Uncovering hidden species: hatching diapausing eggs for the analysis of cladoceran species richness. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 399-407	2.6	45
79	Effects of nutrient additions and macrophyte composition on invertebrate community assembly and diversity in experimental ponds. <i>Basic and Applied Ecology</i> , 2011 , 12, 466-475	3.2	44
78	The genome of the freshwater monogonont rotifer Brachionus calyciflorus. <i>Molecular Ecology Resources</i> , 2018 , 18, 646-655	8.4	43

77	Influence of nutrients, submerged macrophytes and zooplankton grazing on phytoplankton biomass and diversity along a latitudinal gradient in Europe. <i>Hydrobiologia</i> , 2010 , 653, 79-90	2.4	43
76	Biological control of phytoplankton by the subtropical submerged macrophytes <i>Egeria densa</i> and <i>Potamogeton illinoensis</i> : a mesocosm study. <i>Freshwater Biology</i> , 2011 , 56, 1837-1849	3.1	42
75	Dormant propagule banks integrate spatio-temporal heterogeneity in cladoceran communities. <i>Oecologia</i> , 2005 , 142, 109-16	2.9	42
74	Reverse taxonomy applied to the <i>Brachionus calyciflorus</i> cryptic species complex: Morphometric analysis confirms species delimitations revealed by molecular phylogenetic analysis and allows the (re)description of four species. <i>PLoS ONE</i> , 2018 , 13, e0203168	3.7	41
73	Evidence for local adaptation in neighbouring <i>Daphnia</i> populations: a laboratory transplant experiment. <i>Freshwater Biology</i> , 2001 , 46, 187-198	3.1	39
72	How to maximally support local and regional biodiversity in applied conservation? Insights from pond management. <i>PLoS ONE</i> , 2013 , 8, e72538	3.7	38
71	An ecosystem service approach to support integrated pond management: a case study using Bayesian belief networks--highlighting opportunities and risks. <i>Journal of Environmental Management</i> , 2014 , 145, 79-87	7.9	36
70	<i>Daphnia</i> community analysis in shallow Kenyan lakes and ponds using dormant eggs in surface sediments. <i>Freshwater Biology</i> , 2006 , 51, 399-411	3.1	35
69	Regulation of rotifer species by invertebrate predators in a hypertrophic lake: selective predation on egg-bearing females and induction of morphological defences. <i>Journal of Plankton Research</i> , 1998 , 20, 605-618	2.2	35
68	The influence of balanced and imbalanced resource supply on biodiversity-functioning relationship across ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	35
67	Variation in ostracod (Crustacea, Ostracoda) communities in the alluvial valley of the upper Paran� River (Brazil) in relation to substrate. <i>Hydrobiologia</i> , 2010 , 644, 261-278	2.4	34
66	Fighting internal phosphorus loading: An evaluation of the large scale application of gradual Fe-addition to a shallow peat lake. <i>Ecological Engineering</i> , 2015 , 83, 78-89	3.9	33
65	The importance of drawdown and sediment removal for the restoration of the eutrophied shallow Lake Kraenepoel (Belgium). <i>Hydrobiologia</i> , 2007 , 584, 291-303	2.4	31
64	Limnological and ecological characteristics of tropical highland reservoirs in Tigray, Northern Ethiopia. <i>Hydrobiologia</i> , 2008 , 610, 193-209	2.4	31
63	Hatching Rate and Hatching Success with and Without Isolation of Zooplankton Resting Stages. <i>Hydrobiologia</i> , 2004 , 526, 235-241	2.4	31
62	Monogonont rotifers as model systems for the study of micro-evolutionary adaptation and its eco-evolutionary implications. <i>Hydrobiologia</i> , 2017 , 796, 131-144	2.4	30
61	Evidence against the use of surrogates for biomonitoring of Neotropical floodplains. <i>Freshwater Biology</i> , 2012 , 57, 2411-2423	3.1	30
60	Plankton dynamics in a tropical floodplain lake: fish, nutrients, and the relative importance of bottom-up and top-down control. <i>Freshwater Biology</i> , 2005 , 50, 52-69	3.1	29

59	Long-term allelopathic control of phytoplankton by the submerged macrophyte <i>Elodea nuttallii</i> . <i>Freshwater Biology</i> , 2014 , 59, 930-941	3.1	28
58	Bacterial community analysis of activated sludge: an evaluation of four commonly used DNA extraction methods. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 299-307	5.7	27
57	Asexuality and polyploidy in <i>Daphnia</i> from the tropical Andes. <i>Limnology and Oceanography</i> , 2007 , 52, 2079-2088	4.8	27
56	Integrating trait and phylogenetic distances to assess scale-dependent community assembly processes. <i>Ecography</i> , 2017 , 40, 742-752	6.5	26
55	Zooplankton, phytoplankton and the microbial food web in two turbid and two clearwater shallow lakes in Belgium. <i>Aquatic Ecology</i> , 2003 , 37, 137-150	1.9	24
54	An evaluation of the role of daphnids in controlling phytoplankton biomass in clear water versus turbid shallow lakes. <i>Limnologica</i> , 2006 , 36, 69-78	2	23
53	Contributions of airborne dispersal and dormant propagule recruitment to the assembly of rotifer and crustacean zooplankton communities in temporary ponds. <i>Freshwater Biology</i> , 2016 , 61, 658-669	3.1	23
52	Fungal parasites of a toxic inedible cyanobacterium provide food to zooplankton. <i>Limnology and Oceanography</i> , 2018 , 63, 2384-2393	4.8	22
51	Genetic differentiation in life history between <i>Daphnia galeata</i> populations: an adaptation to local predation regimes?. <i>Journal of Plankton Research</i> , 2003 , 25, 93-102	2.2	21
50	Phytoplankton growth and stoichiometric responses to warming, nutrient addition and grazing depend on lake productivity and cell size. <i>Global Change Biology</i> , 2019 , 25, 2751-2762	11.4	20
49	High-altitude peatland temporary pools in Bolivia house a high cladoceran diversity. <i>Wetlands</i> , 2007 , 27, 1166-1174	1.7	20
48	Bottom-Up Effects on Biomass Versus Top-Down Effects on Identity: A Multiple-Lake Fish Community Manipulation Experiment. <i>Ecosystems</i> , 2018 , 21, 166-177	3.9	19
47	Species sorting and stoichiometric plasticity control community C:P ratio of first-order aquatic consumers. <i>Ecology Letters</i> , 2017 , 20, 751-760	10	17
46	The importance of environmental variables for submerged macrophyte community assemblage and coverage in shallow lakes: differences between northern and southern Europe. <i>Hydrobiologia</i> , 2015 , 744, 49-61	2.4	16
45	The study of biodiversity in freshwater habitats: societal relevance and suggestions for priorities in science policy. <i>Hydrobiologia</i> , 2005 , 542, 1-9	2.4	16
44	Evaluation of Restoration Measures in a Shallow Lake through a Comparison of Present Day Zooplankton Communities with Historical Samples. <i>Restoration Ecology</i> , 2009 , 17, 629-640	3.1	14
43	Impact of the fish <i>Garra</i> on the ecology of reservoirs and the occurrence of <i>Microcystis</i> blooms in semi-arid tropical highlands: an experimental assessment using enclosures. <i>Freshwater Biology</i> , 2009 , 54, 1605-1615	3.1	13
42	The relevance of size efficiency to biomanipulation theory: a field test under hypertrophic conditions. <i>Hydrobiologia</i> , 1997 , 360, 265-275	2.4	13

41	Assembly of zooplankton communities in newly created ponds. <i>Freshwater Biology</i> , 2008 , 53, ???-???	3.1	13
40	Tropical high Andes lakes: A limnological survey and an assessment of exotic rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Limnologica</i> , 2006 , 36, 258-268	2	13
39	Impact of fish predation on coexisting <i>Daphnia</i> taxa: a partial test of the temporal hybrid superiority hypothesis. <i>Hydrobiologia</i> , 2003 , 500, 83-94	2.4	13
38	Parasite and nutrient enrichment effects on <i>Daphnia</i> interspecific competition. <i>Ecology</i> , 2015 , 96, 1421-306	4	12
37	Cladoceran community composition in tropical semi-arid highland reservoirs in Tigray (Northern Ethiopia): A metacommunity perspective applied to young reservoirs. <i>Limnologica</i> , 2012 , 42, 137-143	2	12
36	A naturally heterogeneous landscape can effectively slow down the dispersal of aquatic microcrustaceans. <i>Oecologia</i> , 2016 , 180, 785-96	2.9	11
35	Planktonic ciliate community structure in shallow lakes of lowland Western Europe. <i>European Journal of Protistology</i> , 2013 , 49, 538-51	3.6	11
34	Strong effects of occasional drying on subsequent water clarity and cyanobacterial blooms in cool tropical reservoirs. <i>Freshwater Biology</i> , 2014 , 59, 870-884	3.1	11
33	Herbivore consumers face different challenges along opposite sides of the stoichiometric knife-edge. <i>Ecology Letters</i> , 2019 , 22, 2018-2027	10	10
32	Compositional and functional consequences of environmental change in Belgian farmland ponds. <i>Freshwater Biology</i> , 2018 , 63, 581-596	3.1	10
31	Direct and Indirect Effects of Resource P-Limitation Differentially Impact Population Growth, Life History and Body Elemental Composition of a Zooplankton Consumer. <i>Frontiers in Microbiology</i> , 2018 , 9, 172	5.7	10
30	Suppression of invasive topmouth gudgeon <i>Pseudorasbora parva</i> by native pike <i>Esox lucius</i> in ponds. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2015 , 25, 41-48	2.6	10
29	Food quality dominates the impact of food quantity on <i>Daphnia</i> life history: possible implications for re-oligotrophication. <i>Inland Waters</i> , 2014 , 4, 363-368	2.4	10
28	Assessment and control of non-indigenous brown bullhead <i>Ameiurus nebulosus</i> populations using fyke nets in shallow ponds. <i>Journal of Fish Biology</i> , 2006 , 68, 522-531	1.9	10
27	Managing Successional Stage Heterogeneity to Maximize Landscape-Wide Biodiversity of Aquatic Vegetation in Ditch Networks. <i>Frontiers in Plant Science</i> , 2018 , 9, 1013	6.2	9
26	Patterns of differentiation in the life history and demography of four recently described species of the <i>Brachionus calyciflorus</i> cryptic species complex. <i>Freshwater Biology</i> , 2019 , 64, 1994-2005	3.1	8
25	After-life effects: living and dead invertebrates differentially affect plants and their associated above- and belowground multitrophic communities. <i>Oikos</i> , 2017 , 126, 888-899	4	8
24	Genetic diversity of <i>Microcystis</i> blooms (Cyanobacteria) in recently constructed reservoirs in Tigray (Northern Ethiopia) assessed by rDNA ITS. <i>Aquatic Ecology</i> , 2011 , 45, 289-306	1.9	8

23	The influence of plant-associated filter feeders on phytoplankton biomass: a mesocosm study. <i>Hydrobiologia</i> , 2010 , 646, 199-208	2.4	7
22	Intraspecific density dependence in the dynamics of zooplankton under hypertrophic conditions. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003 , 60, 919-928	2.4	6
21	The Impact of Conservation Management on the Community Composition of Multiple Organism Groups in Eutrophic Interconnected Man-Made Ponds. <i>PLoS ONE</i> , 2015 , 10, e0139371	3.7	5
20	Trophic coupling in the microbial food web of a eutrophic shallow lake (Lake Visvijver, Belgium). <i>Archiv Für Hydrobiologie</i> , 2006 , 166, 307-324		5
19	Genome-wide identification of 31 cytochrome P450 (CYP) genes in the freshwater rotifer <i>Brachionus calyciflorus</i> and analysis of their benzo[a]pyrene-induced expression patterns. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2018 , 25, 26-33	2	4
18	Effect of land use on pollution status and risk of fish endocrine disruption in small farmland ponds. <i>Hydrobiologia</i> , 2014 , 723, 103-120	2.4	4
17	The study of biodiversity in freshwater habitats: societal relevance and suggestions for priorities in science policy 2005 , 1-9		4
16	Maternal effects in zooplankton consumers are not only mediated by direct but also by indirect effects of phosphorus limitation. <i>Oikos</i> , 2020 , 129, 766-774	4	3
15	Effects of medium renewal and handling stress on life history traits in <i>Daphnia</i> . <i>Hydrobiologia</i> , 2010 , 643, 63-69	2.4	3
14	Can underwater refuges protect fish populations against cormorant predation? Evidence from a large-scale multiple pond experiment. <i>Fisheries Management and Ecology</i> , 2016 , 23, 89-98	1.8	3
13	Impact of fish predation on coexisting <i>Daphnia</i> taxa: a partial test of the temporal hybrid superiority hypothesis 2003 , 83-94		2
12	Food nutrient availability affects epibiont prevalence and richness in natural <i>Daphnia</i> populations. <i>Limnology and Oceanography</i> , 2020 , 65, 2529-2540	4.8	2
11	Intrinsic postzygotic barriers constrain cross-fertilisation between two hybridising sibling rotifer species of the <i>Brachionus calyciflorus</i> species complex. <i>Freshwater Biology</i> ,	3.1	2
10	Local Functioning, Landscape Structuring: Drivers of Soil Microbial Community Structure and Function in Peatlands. <i>Frontiers in Microbiology</i> , 2018 , 9, 2060	5.7	2
9	The ecology of the riverine <i>Garra</i> species (Teleostei, Cypriniformes) in reservoirs of the semi-arid highlands of northern Ethiopia: temporal dynamics of feeding activity. <i>Inland Waters</i> , 2013 , 3, 331-340	2.4	1
8	Experimental evidence of rapid heritable adaptation in the absence of initial standing genetic variation. <i>Functional Ecology</i> , 2022 , 36, 226	5.6	1
7	The Role of Microbiome and Genotype in upon Parasite Re-Exposure. <i>Genes</i> , 2021 , 12,	4.2	1
6	Reduced fertilization constitutes an important prezygotic reproductive barrier between two sibling species of the hybridizing <i>Brachionus calyciflorus</i> species complex. <i>Hydrobiologia</i> , 2022 , 849, 1701	2.4	0

- 5 A comparative analysis of cladoceran communities from different water body types: patterns in community composition and diversity **2007**, 19-27 ○
- 4 Measuring the contribution of evolution to community trait structure in freshwater zooplankton. *Oikos*, **2021**, 130, 1773 4 ○
- 3 The relevance of size efficiency to biomanipulation theory: a field test under hypertrophic conditions **1997**, 265-275
- 2 Influence of nutrients, submerged macrophytes and zooplankton grazing on phytoplankton biomass and diversity along a latitudinal gradient in Europe **2010**, 79-90
- 1 A critical assessment of the stoichiometric knife-edge: no evidence for artifacts caused by the experimental P-supplementation of algae. *Aquatic Ecology*, **2021**, 55, 1317 1.9