

# Steven A J Declerck

## List of Publications by Year in descending order

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116  
papers

7,031  
citations

61945

43  
h-index

62565

80  
g-index

120  
all docs

120  
docs citations

120  
times ranked

7628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Body size and dispersal mode as key traits determining metacommunity structure of aquatic organisms. <i>Ecology Letters</i> , 2012, 15, 740-747.	3.0	532
2	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, 20404-20409.	3.3	395
3	Impacts of climate warming on lake fish community structure and potential effects on ecosystem function. <i>Hydrobiologia</i> , 2010, 646, 73-90.	1.0	371
4	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.	0.9	352
5	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.	1.2	320
6	The ecology of European ponds: defining the characteristics of a neglected freshwater habitat. <i>Hydrobiologia</i> , 2008, 597, 1-6.	1.0	245
7	Ecological characteristics of small farmland ponds: Associations with land use practices at multiple spatial scales. <i>Biological Conservation</i> , 2006, 131, 523-532.	1.9	227
8	Dispersal Ability Determines the Role of Environmental, Spatial and Temporal Drivers of Metacommunity Structure. <i>PLoS ONE</i> , 2014, 9, e111227.	1.1	226
9	MULTI-GROUP BIODIVERSITY IN SHALLOW LAKES ALONG GRADIENTS OF PHOSPHORUS AND WATER PLANT COVER. <i>Ecology</i> , 2005, 86, 1905-1915.	1.5	198
10	Scale dependency of processes structuring metacommunities of cladocerans in temporary pools of High-Andes wetlands. <i>Ecography</i> , 2011, 34, 296-305.	2.1	174
11	Characterization of bacterial communities in four freshwater lakes differing in nutrient load and food web structure. <i>FEMS Microbiology Ecology</i> , 2005, 53, 205-220.	1.3	150
12	Stoichiometric regulation of phytoplankton toxins. <i>Ecology Letters</i> , 2014, 17, 736-742.	3.0	144
13	Effects of dispersal and environmental heterogeneity on the replacement and nestedness components of $\beta$ -diversity. <i>Ecology</i> , 2017, 98, 525-533.	1.5	143
14	Hatching of cladoceran resting eggs: temperature and photoperiod. <i>Freshwater Biology</i> , 2005, 50, 96-104.	1.2	140
15	PLANKTON BIODIVERSITY ALONG A GRADIENT OF PRODUCTIVITY AND ITS MEDIATION BY MACROPHYTES. <i>Ecology</i> , 2007, 88, 2199-2210.	1.5	112
16	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.	1.4	112
17	Rapid Screening for Freshwater Bacterial Groups by Using Reverse Line Blot Hybridization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 5875-5883.	1.4	100
18	Integrative Taxonomy Recognizes Evolutionary Units Despite Widespread Mitonuclear Discordance: Evidence from a Rotifer Cryptic Species Complex. <i>Systematic Biology</i> , 2016, 65, 508-524.	2.7	100

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19	Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (<scp>CAFE</scp>) approach. Ecology Letters, 2018, 21, 167-180.	3.0	94
20	Ecological implications of parasites in natural Daphnia populations. Oecologia, 2005, 144, 382-390.	0.9	93
21	Subfossil Cladocera in relation to contemporary environmental variables in 54 Pan-European lakes. Freshwater Biology, 2009, 54, 2401-2417.	1.2	92
22	Effect of macrophyte community composition and nutrient enrichment on plant biomass and algal blooms. Basic and Applied Ecology, 2010, 11, 432-439.	1.2	89
23	Patterns of diet overlap between populations of non-indigenous and native fishes in shallow ponds. Journal of Fish Biology, 2002, 61, 1182-1197.	0.7	80
24	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.	1.0	80
25	Title is missing!. Hydrobiologia, 1997, 360, 89-99.	1.0	79
26	Correlates of Zooplankton Beta Diversity in Tropical Lake Systems. PLoS ONE, 2014, 9, e109581.	1.1	73
27	Use of ehippial morphology to assess richness of anomopods: potentials and pitfalls. Journal of Limnology, 2004, 63, 75.	0.3	71
28	Effects of patch connectivity and heterogeneity on metacommunity structure of planktonic bacteria and viruses. ISME Journal, 2013, 7, 533-542.	4.4	71
29	Dispersal-mediated trophic interactions can generate apparent patterns of dispersal limitation in aquatic metacommunities. Ecology Letters, 2012, 15, 218-226.	3.0	70
30	Biological control of phytoplankton by the subtropical submerged macrophytes Egeria densa and Potamogeton illinoensis: a mesocosm study. Freshwater Biology, 2011, 56, 1837-1849.	1.2	69
31	Rapid adaptation of herbivore consumers to nutrient limitation: eco-evolutionary feedbacks to population demography and resource control. Ecology Letters, 2015, 18, 553-562.	3.0	66
32	Reverse taxonomy applied to the Brachionus calyciflorus cryptic species complex: Morphometric analysis confirms species delimitations revealed by molecular phylogenetic analysis and allows the (re)description of four species. PLoS ONE, 2018, 13, e0203168.	1.1	66
33	A comparative analysis of cladoceran communities from different water body types: patterns in community composition and diversity. Hydrobiologia, 2008, 597, 19-27.	1.0	57
34	How to Maximally Support Local and Regional Biodiversity in Applied Conservation? Insights from Pond Management. PLoS ONE, 2013, 8, e72538.	1.1	57
35	Uncovering hidden species: hatching diapausing eggs for the analysis of cladoceran species richness. Limnology and Oceanography: Methods, 2005, 3, 399-407.	1.0	56
36	The genetic legacy of polyploid Bolivian <i>Daphnia</i> : the tropical Andes as a source for the North and South American <i>D. pulicaria</i> complex. Molecular Ecology, 2008, 17, 1789-1800.	2.0	55

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37	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.	1.0	55
38	The genome of the freshwater monogonont rotifer <i>Brachionus calyciflorus</i> . <i>Molecular Ecology Resources</i> , 2018, 18, 646-655.	2.2	52
39	Dormant propagule banks integrate spatio-temporal heterogeneity in cladoceran communities. <i>Oecologia</i> , 2005, 142, 109-116.	0.9	50
40	Evidence for local adaptation in neighbouring <i>Daphnia</i> populations: a laboratory transplant experiment. <i>Freshwater Biology</i> , 2001, 46, 187-198.	1.2	48
41	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.	1.2	48
42	Variation in ostracod (Crustacea, Ostracoda) communities in the alluvial valley of the upper Paraná River (Brazil) in relation to substrate. <i>Hydrobiologia</i> , 2010, 644, 261-278.	1.0	46
43	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.	4.2	45
44	Limnological and ecological characteristics of tropical highland reservoirs in Tigray, Northern Ethiopia. <i>Hydrobiologia</i> , 2008, 610, 193-209.	1.0	44
45	<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.	1.2	43
46	Long-term allelopathic control of phytoplankton by the submerged macrophyte <i>Elodea nuttallii</i> . <i>Freshwater Biology</i> , 2014, 59, 930-941.	1.2	43
47	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.	1.6	43
48	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, 20150283.	1.8	43
49	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.	3.8	42
50	Monogonont rotifers as model systems for the study of micro-evolutionary adaptation and its eco-evolutionary implications. <i>Hydrobiologia</i> , 2017, 796, 131-144.	1.0	42
51	Hatching Rate and Hatching Success with and Without Isolation of Zooplankton Resting Stages. <i>Hydrobiologia</i> , 2004, 526, 235-241.	1.0	40
52	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.	1.2	39
53	The importance of drawdown and sediment removal for the restoration of the eutrophied shallow Lake Kraenepoel (Belgium). <i>Hydrobiologia</i> , 2007, 584, 291-303.	1.0	38
54	Integrating trait and phylogenetic distances to assess scale-dependent community assembly processes. <i>Ecography</i> , 2017, 40, 742-752.	2.1	38

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55	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.	0.8	37
56	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.	1.7	37
57	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.	1.2	37
58	Fungal parasites of a toxic inedible cyanobacterium provide food to zooplankton. <i>Limnology and Oceanography</i> , 2018, 63, 2384-2393.	1.6	37
59	Evidence against the use of surrogates for biomonitoring of Neotropical floodplains. <i>Freshwater Biology</i> , 2012, 57, 2411-2423.	1.2	36
60	Species sorting and stoichiometric plasticity control community C:P ratio of first-order aquatic consumers. <i>Ecology Letters</i> , 2017, 20, 751-760.	3.0	32
61	Title is missing!. <i>Aquatic Ecology</i> , 2003, 37, 137-150.	0.7	31
62	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.	1.6	31
63	Assembly of zooplankton communities in newly created ponds. <i>Freshwater Biology</i> , 2008, 53, 2309-2320.	1.2	29
64	Asexuality and polyploidy in <i>Daphnia</i> from the tropical Andes. <i>Limnology and Oceanography</i> , 2007, 52, 2079-2088.	1.6	28
65	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.	0.7	27
66	High-altitude peatland temporary pools in Bolivia house a high cladoceran diversity. <i>Wetlands</i> , 2007, 27, 1166-1174.	0.7	23
67	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.	0.8	22
68	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.	1.0	21
69	Herbivore consumers face different challenges along opposite sides of the stoichiometric knife-edge. <i>Ecology Letters</i> , 2019, 22, 2018-2027.	3.0	21
70	The study of biodiversity in freshwater habitats: societal relevance and suggestions for priorities in science policy. <i>Hydrobiologia</i> , 2005, 542, 1-9.	1.0	20
71	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.	0.7	20
72	Strong effects of occasional drying on subsequent water clarity and cyanobacterial blooms in cool tropical reservoirs. <i>Freshwater Biology</i> , 2014, 59, 870-884.	1.2	18

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73	Parasite and nutrient enrichment effects on <i>Daphnia</i> interspecific competition. <i>Ecology</i> , 2015, 96, 1421-1430.	1.5	18
74	Cladoceran community composition in tropical semi-arid highland reservoirs in Tigray (Northern Ethiopia). <i>Journal of Great Lakes Research</i> , 2017, 43, 107-117.	0.7	17
75	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.	1.5	17
76	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.	1.2	16
77	Planktonic ciliate community structure in shallow lakes of lowland Western Europe. <i>European Journal of Protistology</i> , 2013, 49, 538-551.	0.5	15
78	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.	0.9	15
79	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.	1.2	14
80	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.	1.4	14
81	Title is missing!. <i>Hydrobiologia</i> , 1997, 360, 265-275.	1.0	13
82	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.	1.0	13
83	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.	0.7	13
84	A naturally heterogeneous landscape can effectively slow down the dispersal of aquatic microcrustaceans. <i>Oecologia</i> , 2016, 180, 785-796.	0.9	13
85	Managing Successional Stage Heterogeneity to Maximize Landscape-Wide Biodiversity of Aquatic Vegetation in Ditch Networks. <i>Frontiers in Plant Science</i> , 2018, 9, 1013.	1.7	13
86	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.	1.1	12
87	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.	0.7	11
88	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.	1.2	11
89	Compositional and functional consequences of environmental change in Belgian farmland ponds. <i>Freshwater Biology</i> , 2018, 63, 581-596.	1.2	10
90	The Role of Microbiome and Genotype in <i>Daphnia magna</i> upon Parasite Re-Exposure. <i>Genes</i> , 2021, 12, 70.	1.0	10

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91	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.	1.1	9
92	The influence of plant-associated filter feeders on phytoplankton biomass: a mesocosm study. <i>Hydrobiologia</i> , 2010, 646, 199-208.	1.0	8
93	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.	1.0	8
94	Intrinsic postzygotic barriers constrain cross-species fertilisation between two hybridising sibling rotifer species of the <i>Brachionus calyciflorus</i> species complex. <i>Freshwater Biology</i> , 2022, 67, 240-249.	1.2	8
95	Experimental evidence of rapid heritable adaptation in the absence of initial standing genetic variation. <i>Functional Ecology</i> , 2022, 36, 226-238.	1.7	8
96	The relevance of size efficiency to biomanipulation theory: a field test under hypertrophic conditions. , 1997, , 265-275.		8
97	Local Functioning, Landscape Structuring: Drivers of Soil Microbial Community Structure and Function in Peatlands. <i>Frontiers in Microbiology</i> , 2018, 9, 2060.	1.5	7
98	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.	1.2	7
99	Intraspecific density dependence in the dynamics of zooplankton under hypertrophic conditions. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003, 60, 919-928.	0.7	6
100	The study of biodiversity in freshwater habitats: societal relevance and suggestions for priorities in science policy. , 2005, , 1-9.		6
101	Trophic coupling in the microbial food web of a eutrophic shallow lake (Lake Visvijver, Belgium). <i>Archiv für Hydrobiologie</i> , 2006, 166, 307-324.	1.1	6
102	Genome-wide identification of 31 cytochrome P450 ( CYP ) genes in the freshwater rotifer <i>Brachionus calyciflorus</i> and analysis of their benzo[ <i>a</i> ]pyrene-induced expression patterns. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2018, 25, 26-33.	0.4	5
103	Measuring the contribution of evolution to community trait structure in freshwater zooplankton. <i>Oikos</i> , 2021, 130, 1773.	1.2	5
104	Effects of medium renewal and handling stress on life history traits in <i>Daphnia</i> . <i>Hydrobiologia</i> , 2010, 643, 63-69.	1.0	4
105	Effect of land use on pollution status and risk of fish endocrine disruption in small farmland ponds. <i>Hydrobiologia</i> , 2014, 723, 103-120.	1.0	4
106	Impact of fish predation on coexisting <i>Daphnia</i> taxa: a partial test of the temporal hybrid superiority hypothesis. , 2003, , 83-94.		4
107	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.	1.1	3
108	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.	1.0	3

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109	Clear water and charophytes in a hypertrophic pond. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 541-541.	0.1	2
110	Food nutrient availability affects epibiont prevalence and richness in natural Daphnia populations. Limnology and Oceanography, 2020, 65, 2529-2540.	1.6	2
111	Phytoplankton functional composition determines limitation by nutrients and grazers across a lake productivity gradient. Ecosphere, 2022, 13, .	1.0	2
112	A critical assessment of the stoichiometric knife-edge: no evidence for artifacts caused by the experimental P-supplementation of algae. Aquatic Ecology, 2021, 55, 1317-1325.	0.7	1
113	Database on local environmental conditions and biodiversity in fish ponds in Midden-Limburg, Belgium. Freshwater Metadata Journal, 0, , 1-8.	0.0	1
114	Database of the PONDSCAPE project (Towards a sustainable management of pond diversity at the Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	0.0	1
115	Influence of nutrients, submerged macrophytes and zooplankton grazing on phytoplankton biomass and diversity along a latitudinal gradient in Europe. , 2010, , 79-90.		0
116	Database on environmental conditions and biodiversity in shallow lakes in Belgium and the Netherlands. Freshwater Metadata Journal, 0, , 1-9.	0.0	0