Edwin T H M Peeters

List of Publications by Year
in descending order

89 papers	4,855 citations	101543 36 h-index	95266 68 g-index
89 all docs	89 docs citations	89 times ranked	7079 citing authors

#	Article	IF	Citations
1	Consequences of biodiversity loss for litter decomposition across biomes. Nature, 2014, 509, 218-221.	27.8	600
2	A morphological classification capturing functional variation in phytoplankton. Freshwater Biology, 2010, 55, 614-627.	2.4	393
3	The determination of ecological status in shallow lakes - a tested system (ECOFRAME) for implementation of the European Water Framework Directive. Aquatic Conservation: Marine and Freshwater Ecosystems, 2003, 13, 507-549.	2.0	266
4	Microplastic Effect Thresholds for Freshwater Benthic Macroinvertebrates. Environmental Science & Technology, 2018, 52, 2278-2286.	10.0	240
5	Behavioural responses of Gammarus pulex (Crustacea, Amphipoda) to low concentrations of pharmaceuticals. Aquatic Toxicology, 2006, 78, 209-216.	4.0	239
6	Creating a safe operating space for iconic ecosystems. Science, 2015, 347, 1317-1319.	12.6	202
7	Cross continental increase in methane ebullition under climate change. Nature Communications, 2017, 8, 1682.	12.8	146
8	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. Science Advances, 2019, 5, eaav0486.	10.3	133
9	Climateâ€related differences in the dominance of submerged macrophytes in shallow lakes. Global Change Biology, 2009, 15, 2503-2517.	9.5	125
10	Creating a safe operating space for wetlands in a changing climate. Frontiers in Ecology and the Environment, 2017, 15, 99-107.	4.0	125
11	Nano- and microplastics affect the composition of freshwater benthic communities in the long term. Science Advances, 2020, 6, eaay4054.	10.3	104
12	Vegetation abundance in lowland flood plan lakes determined by surface area, age and connectivity. Freshwater Biology, 2003, 48, 440-454.	2.4	95
13	Leaf litter quality drives litter mixing effects through complementary resource use among detritivores. Oecologia, 2013, 173, 269-280.	2.0	90
14	Logistic regression as a tool for defining habitat requirements of two common gammarids. Freshwater Biology, 1998, 39, 605-615.	2.4	89
15	Effects of imidacloprid on the ecology of sub-tropical freshwater microcosms. Environmental Pollution, 2018, 236, 432-441.	7.5	78
16	Macroâ€detritivore identity drives leaf litter diversity effects. Oikos, 2011, 120, 1092-1098.	2.7	77
17	Effects of aquatic vegetation type on denitrification. Biogeochemistry, 2011, 104, 267-274.	3.5	77
18	Ecotoxicological Effects of Activated Carbon Amendments on Macroinvertebrates in Nonpolluted and Polluted Sediments. Environmental Science & Technology, 2011, 45, 8567-8574.	10.0	73

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19	AVOIDANCE OF POLYCYCLIC AROMATIC HYDROCARBONâ€“CONTAMINATED SEDIMENTS BY THE FRESHWATER INVERTEBRATES GAMMARUS PULEX AND ASELLUS AQUATICUS. Environmental Toxicology and Chemistry, 2006, 25, 452.	4.3	71
20	Determinants of biodiversity in subtropical shallow lakes (Atlantic coast, Uruguay). Freshwater Biology, 2009, 54, 2628-2641.	2.4	69
21	Benthic macroinvertebrate community structure in relation to food and environmental variables. Hydrobiologia, 2004, 519, 103-115.	2.0	67
22	Growth of shredders on leaf litter biofilms: the effect of light intensity. Freshwater Biology, 2005, 50, 459-466.	2.4	64
23	Ambiguous climate impacts on competition between submerged macrophytes and phytoplankton in shallow lakes. Freshwater Biology, 2011, 56, 1540-1553.	2.4	59
24	Changes in Ventilation and Locomotion ofGammarus pulex(Crustacea, Amphipoda) in Response to Low Concentrations of Pharmaceuticals. Human and Ecological Risk Assessment (HERA), 2009, 15, 111-120.	3.4	55
25	Effects of slurry from sulfadiazine- (SDZ) and difloxacin- (DIF) medicated pigs on the structural diversity of microorganisms in bulk and rhizosphere soil. Soil Biology and Biochemistry, 2013, 62, 82-91.	8.8	53
26	Contrasting sensitivities to toxicants of the freshwater amphipods Gammarus pulex and G. fossarum. Ecotoxicology, 2010, 19, 133-140.	2.4	51
27	A simple equation for describing the temperature dependent growth of free-floating macrophytes. Aquatic Botany, 2006, 84, 171-175.	1.6	47
28	Differential response to climatic variation of free-floating and submerged macrophytes in ditches. Freshwater Biology, 2011, 56, 1761-1768.	2.4	47
29	Diversity patterns of leaf-associated aquatic hyphomycetes along a broad latitudinal gradient. Fungal Ecology, 2013, 6, 439-448.	1.6	45
30	Development of a feeding behavioural bioassay using the freshwater amphipod Gammarus pulex and the Multispecies Freshwater Biomonitor. Chemosphere, 2009, 75, 341-346.	8.2	44
31	Changing weather conditions and floating plants in temperate drainage ditches. Journal of Applied Ecology, 2013, 50, 585-593.	4.0	44
32	Warming enhances sedimentation and decomposition of organic carbon in shallow macrophyteâ€dominated systems with zero net effect on carbon burial. Global Change Biology, 2018, 24, 5231-5242.	9.5	43
33	Evaluation of bioassays versus contaminant concentrations in explaining the macroinvertebrate community structure in the Rhineâ€Meuse delta, The Netherlands. Environmental Toxicology and Chemistry, 2001, 20, 2883-2891.	4.3	42
34	TRACE METAL AVAILABILITY AND EFFECTS ON BENTHIC COMMUNITY STRUCTURE IN FLOODPLAIN LAKES. Environmental Toxicology and Chemistry, 2004, 23, 668.	4.3	42
35	Habitat-mediated cannibalism and microhabitat restriction in the stream invertebrate Gammarus pulex. Hydrobiologia, 2007, 589, 155-164.	2.0	42
36	Coupling hysteresis analysis with sediment and hydrological connectivity in three agricultural catchments in Navarre, Spain. Journal of Soils and Sediments, 2019, 19, 1598-1612.	3.0	40

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37	Invasive Crayfish Threaten the Development of Submerged Macrophytes in Lake Restoration. PLoS ONE, 2013, 8, e78579.	2.5	37
38	Contribution of trace metals in structuring in situ macroinvertebrate community composition along a salinity gradient. Environmental Toxicology and Chemistry, 2000, 19, 1002-1010.	4.3	36
39	The Evolution of Functionally Redundant Species; Evidence from Beetles. PLoS ONE, 2015, 10, e0137974.	2.5	34
40	Effects of interstitial refugia and current velocity on growth of the amphipodGammarus pulexLinnaeus. Journal of the North American Benthological Society, 2006, 25, 656-663.	3.1	32
41	Community effects of carbon nanotubes in aquatic sediments. Environment International, 2011, 37, 1126-1130.	10.0	32
42	Assessing ecological quality of shallow lakes: Does knowledge of transparency suffice?. Basic and Applied Ecology, 2009, 10, 89-96.	2.7	31
43	Long-Term Recovery of Benthic Communities in Sediments Amended with Activated Carbon. Environmental Science & Technology, 2012, 46, 10735-10742.	10.0	30
44	Attraction of the amphipod Gammarus pulex to water-borne cues of food. Hydrobiologia, 2005, 544, 19-25.	2.0	28
45	Contaminated sediments and bioassay responses of three macroinvertebrates, the midge larva Chironomus riparius, the water louse Asellus aquaticus and the mayfly nymph Ephoron virgo. Chemosphere, 2005, 61, 1700-1709.	8.2	28
46	Multiwalled Carbon Nanotubes at Environmentally Relevant Concentrations Affect the Composition of Benthic Communities. Environmental Science & Technology, 2013, 47, 7475-7482.	10.0	27
47	Wave forces limit the establishment of submerged macrophytes in large shallow lakes. Limnology and Oceanography, 2015, 60, 1536-1549.	3.1	25
48	Variation in the Behavior of the AmphipodGammarus pulex. Human and Ecological Risk Assessment (HERA), 2009, 15, 41-52.	3.4	24
49	Phenotypic plasticity as a clue for invasion success of the submerged aquatic plant Elodea nuttallii. Plant Biology, 2019, 21, 54-63.	3.8	23
50	Triple Domain in Situ Sorption Modeling of Organochlorine Pesticides, Polychlorobiphenyls, Polyaromatic Hydrocarbons, Polychlorinated Dibenzo-p-Dioxins, and Polychlorinated Dibenzofurans in Aquatic Sediments. Environmental Science & Technology, 2009, 43, 8847-8853.	10.0	22
51	Impacts of warming on top-down and bottom-up controls of periphyton production. Scientific Reports, 2018, 8, 9901.	3.3	20
52	Experiments with duckweed-moth systems suggest that global warming may reduce rather than promote herbivory. Freshwater Biology, 2006, 51, 110-116.	2.4	19
53	Occurrence of macrophyte monocultures in drainage ditches relates to phosphorus in both sediment and water. SpringerPlus, 2013, 2, 564.	1.2	19
54	Effects of Benzo(a)pyrene and Size of Organic Matter Particles on Bioaccumulation and Growth of Asellus aquaticus. Archives of Environmental Contamination and Toxicology, 2000, 39, 307-314.	4.1	18

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55	Acute toxicity of chlorpyrifos to embryo and larvae of banded gourami Trichogaster fasciata. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 92-98.	1.5	17
56	Competition between Free-Floating Plants Is Strongly Driven by Previously Experienced Phosphorus Concentrations in the Water Column. PLoS ONE, 2016, 11, e0162780.	2.5	17
57	Population dynamics of free-swimming Annelida in four Dutch wastewater treatment plants in relation to process characteristics. Hydrobiologia, 2008, 605, 131-142.	2.0	16
58	Further improvements in water quality of the Dutch Borderlakes: two types of clear states at different nutrient levels. Aquatic Ecology, 2016, 50, 521-539.	1.5	16
59	The Role of Propagule Banks from Drainage Ditches Dominated by Freeâ€Floating or Submerged Plants in Vegetation Restoration. Restoration Ecology, 2012, 20, 416-425.	2.9	14
60	Variation in stonefly (Nemoura cinerea Retzius) growth and development in response to hydraulic and substrate conditions. Journal of the North American Benthological Society, 2008, 27, 176-185.	3.1	13
61	Effects of animal starvation on the sensitivity of the freshwater amphipodGammarus pulexto cadmium. Chemistry and Ecology, 2010, 26, 233-242.	1.6	13
62	Effects of an anionic surfactant (FFD-6) on the energy and information flow between a primary producer (Scenedesmus obliquus) and a consumer (Daphnia magna). Ecotoxicology, 2011, 20, 1881-1889.	2.4	12
63	Rainfall changes affect the algae dominance in tank bromeliad ecosystems. PLoS ONE, 2017, 12, e0175436.	2.5	12
64	Global Patterns and Controls of Nutrient Immobilization on Decomposing Cellulose in Riverine Ecosystems. Global Biogeochemical Cycles, 2022, 36, .	4.9	12
65	Secondary production of Gammarus pulex Linnaeus in small temperate streams that differ in riparian canopy cover. Fundamental and Applied Limnology, 2007, 168, 211-219.	0.7	11
66	Effects of long-term chlorpyrifos exposure on mortality and reproductive tissues of Banded Gourami (Trichogaster fasciata). Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 549-559.	1.5	11
67	Effect of Silt, Water and Periphyton Quality on Survival and Growth of the Mayfly Heptagenia ÂSulphurea. Aquatic Ecology, 2006, 40, 373-380.	1.5	10
68	The Ecophysiological Response of Two Invasive Submerged Plants to Light and Nitrogen. Frontiers in Plant Science, 2019, 10, 1747.	3.6	9
69	Submerged Rootless Macrophytes Sustain a Stable State Against Free-Floating Plants. Ecosystems, 2022, 25, 17-29.	3.4	9
70	EVALUATION OF BIOASSAYS VERSUS CONTAMINANT CONCENTRATIONS IN EXPLAINING THE MACROINVERTEBRATE COMMUNITY STRUCTURE IN THE RHINE-MEUSE DELTA, THE NETHERLANDS. Environmental Toxicology and Chemistry, 2001, 20, 2883.	4.3	9
71	Fast response of lake plankton and nutrients to river inundations on floodplain lakes. River Research and Applications, 2008, 24, 388-406.	1.7	8
72	Relationship between redox potential and the emergence of three submerged macrophytes. Aquatic Botany, 2014, 113, 56-62.	1.6	8

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73	Preferences for anuran calls in hematophagous corethrellids (Diptera: Corethrellidae) from Southern Brazil. Austral Entomology, 2019, 58, 622-628.	1.4	8
74	Plant functional diversity and nutrient availability can improve restoration of floating fens via facilitation, complementarity and selection effects. Journal of Applied Ecology, 2019, 56, 235-245.	4.0	7
75	Warming advances virus population dynamics in a temperate freshwater plankton community. Limnology and Oceanography Letters, 2020, 5, 295-304.	3.9	7
76	Distribution of crayfish species in Hungarian waters. Global Ecology and Conservation, 2016, 8, 254-262.	2.1	6
77	Avoidance tests as a tool to detect sublethal effects of oilâ€impacted sediments. Environmental Toxicology and Chemistry, 2018, 37, 1757-1766.	4.3	6
78	CONTRIBUTION OF TRACE METALS IN STRUCTURING IN SITU MACROINVERTEBRATE COMMUNITY COMPOSITION ALONG A SALINITY GRADIENT. Environmental Toxicology and Chemistry, 2000, 19, 1002.	4.3	6
79	Modelling the effects of diving ducks on zebra mussels Dreissena polymorpha in lakes. Ecological Modelling, 2008, 211, 481-490.	2.5	5
80	Potential impact of chemical stress on freshwater invertebrates: A sensitivity assessment on continental and national scale based on distribution patterns, biological traits, and relatedness.. Science of the Total Environment, 2020, 731, 139150.	8.0	5
81	The Role of Epiphytic Algae and Grazing Snails in Stable States of Submerged and of Free-Floating Plants. Ecosystems, 2022, 25, 1371-1383.	3.4	5
82	Monitoring biological water quality by volunteers complements professional assessments. PLoS ONE, 2022, 17, e0263899.	2.5	5
83	Behavioral Ecotoxicology: Mechanisms, Effects, Applications, and Biomonitoring. Human and Ecological Risk Assessment (HERA), 2009, 15, 7-10.	3.4	4
84	Native European crayfish Astacus astacus competitive in staged confrontation with the invasive crayfish Faxonius limosus and Procambarus acutus. PLoS ONE, 2022, 17, e0263133.	2.5	4
85	Seasonal variation of total and biochemically available concentrations of PAHs in a floodplain lake sediment has no effect on the benthic invertebrate community. Chemosphere, 2009, 75, 319-326.	8.2	3
86	Behavioral patterns of two fiddler crab species Uca rapax and Uca tangeri in a seminatural mangrove system. Zoo Biology, 2019, 38, 343-354.	1.2	3
87	Ditch maintenance and biodiversity of macrophytes in the Netherlands. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2005, 29, 185-189.	0.1	1
88	Long-lasting effects of experimental flow intermittency on alpine stream macroinvertebrates (Val) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	1
89	Some species flourish when many do not: a pattern in data on ecological communities. Community Ecology, 2021, 22, 157-163.	0.9	0