

# Annette Baattrup-Pedersen

## List of Publications by Year in descending order

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Version: 2024-02-01

116  
papers

4,174  
citations

117453

34  
h-index

138251

58  
g-index

118  
all docs

118  
docs citations

118  
times ranked

4674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Periphyton biomass and life-form responses to a gradient of discharge in contrasting light and nutrients scenarios in experimental lowland streams. <i>Science of the Total Environment</i> , 2022, 806, 150505.	3.9	9
2	Alkalinity and diatom assemblages in lowland streams: How to separate alkalinity from inorganic phosphorus in ecological assessments?. <i>Science of the Total Environment</i> , 2022, 823, 153829.	3.9	9
3	Rare <i>Potamogeton</i> species can establish in restored Danish lowland stream reaches. <i>Freshwater Biology</i> , 2022, 67, 518-532.	1.2	1
4	Flow pulses shape periphyton differently according to local light and nutrient conditions in experimental lowland streams. <i>Freshwater Biology</i> , 2022, 67, 1272-1286.	1.2	0
5	Macrophytes enhance reach-scale metabolism on a daily, seasonal and annual basis in agricultural lowland streams. <i>Aquatic Sciences</i> , 2021, 83, 1.	0.6	13
6	Effects of different weed cutting methods on physical and hydromorphological conditions in lowland streams. <i>Knowledge and Management of Aquatic Ecosystems</i> , 2021, , 10.	0.5	8
7	Seasonal turnover in community composition of stream-associated macroinvertebrates inferred from freshwater environmental DNA metabarcoding. <i>Environmental DNA</i> , 2021, 3, 861-876.	3.1	19
8	Influence of plant habitats on denitrification in lowland agricultural streams. <i>Journal of Environmental Management</i> , 2021, 286, 112193.	3.8	10
9	Small-sized omnivorous fish induce stronger effects on food webs than warming and eutrophication in experimental shallow lakes. <i>Science of the Total Environment</i> , 2021, 797, 148998.	3.9	15
10	Microbial biofilm community dynamics in five lowland streams. <i>Science of the Total Environment</i> , 2021, 798, 149169.	3.9	10
11	Danish wetlands remained poor with plant species 17-years after restoration. <i>Science of the Total Environment</i> , 2021, 798, 149146.	3.9	9
12	Epiphyton in Agricultural Streams: Structural Control and Comparison to Epilithon. <i>Water (Switzerland)</i> , 2021, 13, 3443.	1.2	3
13	Riverine macrophytes control seasonal nutrient uptake via both physical and biological pathways. <i>Freshwater Biology</i> , 2020, 65, 178-192.	1.2	15
14	Short-period hydrological regimes override physico-chemical variables in shaping stream diatom traits, biomass and biofilm community functions. <i>Science of the Total Environment</i> , 2020, 743, 140720.	3.9	25
15	A comparison of nutrient uptake efficiency and growth rate between different macrophyte growth forms. <i>Journal of Environmental Management</i> , 2020, 274, 111181.	3.8	24
16	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. <i>Nature Ecology and Evolution</i> , 2020, 4, 1060-1068.	3.4	336
17	Effects of low flow and co-occurring stressors on structural and functional characteristics of the benthic biofilm in small streams. <i>Science of the Total Environment</i> , 2020, 733, 139331.	3.9	10
18	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. <i>Journal of Environmental Quality</i> , 2019, 48, 322-329.	1.0	16

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19	Early dynamics in plant community trait responses to a novel, more extreme hydrological gradient. <i>Journal of Plant Ecology</i> , 2019, 12, 327-335.	1.2	11
20	Catchment properties and the photosynthetic trait composition of freshwater plant communities. <i>Science</i> , 2019, 366, 878-881.	6.0	80
21	Indicators of biomass and methane yields in vegetated buffer strips. <i>Journal of Cleaner Production</i> , 2019, 210, 907-915.	4.6	2
22	The future of European water management: Demonstration of a new WFD compliant framework to support sustainable management under multiple stress. <i>Science of the Total Environment</i> , 2019, 654, 53-59.	3.9	13
23	Protecting and restoring Europe's waters: An analysis of the future development needs of the Water Framework Directive. <i>Science of the Total Environment</i> , 2019, 658, 1228-1238.	3.9	295
24	Flow regimes filter species traits of benthic diatom communities and modify the functional features of lowland streams - a nationwide scale study. <i>Science of the Total Environment</i> , 2019, 651, 357-366.	3.9	44
25	Structural and functional characteristics of buffer strip vegetation in an agricultural landscape "high potential for nutrient removal but low potential for plant biodiversity". <i>Science of the Total Environment</i> , 2018, 628-629, 805-814.	3.9	39
26	Evaluating effects of weed cutting on water level and ecological status in Danish lowland streams. <i>Freshwater Biology</i> , 2018, 63, 652-661.	1.2	18
27	Structural and functional responses of plant communities to climate change-mediated alterations in the hydrology of riparian areas in temperate Europe. <i>Ecology and Evolution</i> , 2018, 8, 4120-4135.	0.8	14
28	Riparian forest modifies fuelling sources for stream food webs but not food-chain length in lowland streams of Denmark. <i>Hydrobiologia</i> , 2018, 805, 291-310.	1.0	12
29	Headwater streams in the EU Water Framework Directive: Evidence-based decision support to select streams for river basin management plans. <i>Science of the Total Environment</i> , 2018, 613-614, 1048-1054.	3.9	18
30	Identifying potential gaps in pesticide risk assessment: Terrestrial life stages of freshwater insects. <i>Journal of Applied Ecology</i> , 2018, 55, 1510-1515.	1.9	11
31	Submerged freshwater plant communities do not show species complementarity effect in wetland mesocosms. <i>Biology Letters</i> , 2018, 14, 20180635.	1.0	13
32	Responses of Aquatic Plants to Eutrophication in Rivers: A Revised Conceptual Model. <i>Frontiers in Plant Science</i> , 2018, 9, 451.	1.7	94
33	Does Regular Harvesting Increase Plant Diversity in Buffer Strips Separating Agricultural Land and Surface Waters?. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	5
34	Nutrient kinetics in submerged plant beds: A mesocosm study simulating constructed drainage wetlands. <i>Ecological Engineering</i> , 2018, 122, 263-270.	1.6	9
35	Responses of benthic algal communities and their traits to experimental changes in fine sediments, nutrients and flow. <i>Freshwater Biology</i> , 2017, 62, 1539-1550.	1.2	20
36	Using river microalgae as indicators for freshwater biomonitoring: Review of published research and future directions. <i>Ecological Indicators</i> , 2017, 81, 124-131.	2.6	98

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37	Multiple stress response of lowland stream benthic macroinvertebrates depends on habitat type. <i>Science of the Total Environment</i> , 2017, 599-600, 1517-1523.	3.9	32
38	Effects of increased flooding on riparian vegetation: Field experiments simulating climate change along five European lowland streams. <i>Global Change Biology</i> , 2017, 23, 3052-3063.	4.2	31
39	Environmental and spatial controls of taxonomic versus trait composition of stream biota. <i>Freshwater Biology</i> , 2017, 62, 397-413.	1.2	73
40	A new paradigm for biomonitoring: an example building on the Danish Stream Plant Index. <i>Methods in Ecology and Evolution</i> , 2017, 8, 297-307.	2.2	11
41	Experimental drought changes ecosystem structure and function in a macrophyte-rich stream. <i>Aquatic Sciences</i> , 2017, 79, 841-853.	0.6	13
42	Genetic structure of the submersed <i>Ranunculus baudotii</i> (sect. <i>Batrachium</i> ) population in a lowland stream in Denmark. <i>Aquatic Botany</i> , 2017, 136, 186-196.	0.8	6
43	Microbial community diversity and composition varies with habitat characteristics and biofilm function in macrophyte-rich streams. <i>Oikos</i> , 2017, 126, 398-409.	1.2	30
44	Nutrient availability and nutrient use efficiency in plants growing in the transition zone between land and water. <i>Plant Biology</i> , 2016, 18, 301-306.	1.8	3
45	Functional trait composition of aquatic plants can serve to disentangle multiple interacting stressors in lowland streams. <i>Science of the Total Environment</i> , 2016, 543, 230-238.	3.9	51
46	Trait Characteristics Determine Pyrethroid Sensitivity in Nonstandard Test Species of Freshwater Macroinvertebrates: A Reality Check. <i>Environmental Science &amp; Technology</i> , 2016, 50, 4971-4978.	4.6	37
47	Baseline identification in stable-isotope studies of temperate lotic systems and implications for calculated trophic positions. <i>Freshwater Science</i> , 2016, 35, 909-921.	0.9	8
48	Comparison of metabolic rates among macrophyte and nonmacrophyte habitats in streams. <i>Freshwater Science</i> , 2016, 35, 834-844.	0.9	17
49	Mosses in High-Arctic lakes: in situ measurements of annual primary production and decomposition. <i>Polar Biology</i> , 2016, 39, 543-552.	0.5	14
50	Climate change effects on lowland stream flood regimes and riparian rich fen vegetation communities in Denmark. <i>Hydrological Sciences Journal</i> , 2016, 61, 344-358.	1.2	6
51	The response of hydrophyte growth forms and plant strategies to river restoration. <i>Hydrobiologia</i> , 2016, 769, 41-54.	1.0	19
52	Influence of riparian forests on fish assemblages in temperate lowland streams. <i>Environmental Biology of Fishes</i> , 2016, 99, 133-144.	0.4	12
53	Structural and functional responses of floodplain vegetation to stream ecosystem restoration. <i>Hydrobiologia</i> , 2016, 769, 79-92.	1.0	35
54	Riparian forest as a management tool for moderating future thermal conditions of lowland temperate streams. <i>Inland Waters</i> , 2015, 5, 27-38.	1.1	14

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55	Plant trait characteristics vary with size and eutrophication in European lowland streams. <i>Journal of Applied Ecology</i> , 2015, 52, 1617-1628.	1.9	31
56	Contrasting the roles of section length and instream habitat enhancement for river restoration success: a field study of 20 European restoration projects. <i>Journal of Applied Ecology</i> , 2015, 52, 1518-1527.	1.9	64
57	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
58	The legacy of pesticide pollution: An overlooked factor in current risk assessments of freshwater systems. <i>Water Research</i> , 2015, 84, 25-32.	5.3	130
59	Riparian plant community responses to increased flooding: a meta-analysis. <i>Global Change Biology</i> , 2015, 21, 2881-2890.	4.2	147
60	Macrophyte Complexity Controls Nutrient Uptake in Lowland Streams. <i>Ecosystems</i> , 2015, 18, 914-931.	1.6	77
61	Whole-stream metabolism in nutrient-poor calcareous streams on Å–land, Sweden. <i>Aquatic Sciences</i> , 2015, 77, 207-219.	0.6	8
62	Environmental controls of plant species richness in riparian wetlands: Implications for restoration. <i>Basic and Applied Ecology</i> , 2015, 16, 480-489.	1.2	21
63	Effects of warming on annual production and nutrient-use efficiency of aquatic mosses in a high Arctic lake. <i>Freshwater Biology</i> , 2014, 59, 1622-1632.	1.2	15
64	Fast reaction of macroinvertebrate communities to stagnation and drought in streams with contrasting nutrient availability. <i>Freshwater Science</i> , 2014, 33, 847-859.	0.9	22
65	The role of species functional traits in distributional patterns of lowland stream vegetation. <i>Freshwater Science</i> , 2014, 33, 1074-1085.	0.9	11
66	Nitrous oxide fluxes in undisturbed riparian wetlands located in agricultural catchments: Emission, uptake and controlling factors. <i>Soil Biology and Biochemistry</i> , 2014, 68, 291-299.	4.2	62
67	Monitoring fish communities in wadeable lowland streams: comparing the efficiency of electrofishing methods at contrasting fish assemblages. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1665-1677.	1.3	20
68	10 years after the largest river restoration project in Northern Europe: Hydromorphological changes on multiple scales in River Skjern. <i>Ecological Engineering</i> , 2014, 66, 141-149.	1.6	32
69	The River Gels restoration revisited: Habitat specific assemblages and persistence of the macroinvertebrate community over an 11-year period. <i>Ecological Engineering</i> , 2014, 66, 150-157.	1.6	28
70	Seed germination from deposited sediments during high winter flow in riparian areas. <i>Ecological Engineering</i> , 2014, 66, 103-110.	1.6	14
71	Groundwater nitrogen and the distribution of groundwater-dependent vegetation in riparian areas in agricultural catchments. <i>Ecological Engineering</i> , 2014, 66, 111-119.	1.6	9
72	CATCHMENT CHARACTERISTICS AND PLANT RECRUITMENT FROM SEDIMENT IN STREAM AND MEADOW HABITATS. <i>River Research and Applications</i> , 2013, 29, 855-863.	0.7	9

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73	From expert judgement to supervised classification: A new approach to assess ecological status in lowland streams. <i>Science of the Total Environment</i> , 2013, 447, 116-122.	3.9	12
74	Methane emissions in Danish riparian wetlands: Ecosystem comparison and pursuit of vegetation indexes as predictive tools. <i>Ecological Indicators</i> , 2013, 34, 548-559.	2.6	21
75	Effects of stream flooding on the distribution and diversity of groundwater-dependent vegetation in riparian areas. <i>Freshwater Biology</i> , 2013, 58, 817-827.	1.2	25
76	Species Recruitment following Flooding, Sediment Deposition and Seed Addition in Restored Riparian Areas. <i>Restoration Ecology</i> , 2013, 21, 399-408.	1.4	14
77	Distribution of invertebrates within beds of two morphologically contrasting stream macrophyte species. <i>Fundamental and Applied Limnology</i> , 2013, 183, 309-321.	0.4	16
78	Photosynthetic performance of submerged macrophytes from lowland stream and lake habitats with contrasting CO <sub>2</sub> availability. <i>New Phytologist</i> , 2013, 198, 1135-1142.	3.5	12
79	Bicarbonate use in three aquatic plants. <i>Aquatic Botany</i> , 2012, 98, 57-60.	0.8	14
80	Effects of a triazole fungicide and a pyrethroid insecticide on the decomposition of leaves in the presence or absence of macroinvertebrate shredders. <i>Aquatic Toxicology</i> , 2012, 118-119, 54-61.	1.9	54
81	Predictive modelling of protected habitats in riparian areas from catchment characteristics. <i>Ecological Indicators</i> , 2012, 18, 227-235.	2.6	11
82	Selection, implementation and cost of restorations in lowland streams: A basis for identifying restoration priorities. <i>Environmental Science and Policy</i> , 2012, 23, 1-11.	2.4	9
83	Phosphorus Load to Surface Water from Bank Erosion in a Danish Lowland River Basin. <i>Journal of Environmental Quality</i> , 2012, 41, 304-313.	1.0	89
84	Diversity and Distribution of Riparian Plant Communities in Relation to Stream Size and Eutrophication. <i>Journal of Environmental Quality</i> , 2012, 41, 348-354.	1.0	28
85	Meta-analysis Shows a Consistent and Strong Latitudinal Pattern in Fish Omnivory Across Ecosystems. <i>Ecosystems</i> , 2012, 15, 492-503.	1.6	121
86	Stream habitat structure influences macroinvertebrate response to pesticides. <i>Environmental Pollution</i> , 2012, 164, 142-149.	3.7	64
87	Impacts of pesticides and natural stressors on leaf litter decomposition in agricultural streams. <i>Science of the Total Environment</i> , 2012, 416, 148-155.	3.9	97
88	Community structure of fish in lowland streams differ substantially between subtropical and temperate climates. <i>Hydrobiologia</i> , 2012, 684, 143-160.	1.0	25
89	Prediction of stream fish assemblages from land use characteristics: implications for cost-effective design of monitoring programmes. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 1435-1448.	1.3	17
90	Local physical habitat quality cloud the effect of predicted pesticide runoff from agricultural land in Danish streams. <i>Journal of Environmental Monitoring</i> , 2011, 13, 943.	2.1	23

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91	Spatial distribution and temporal dynamic of the seed pool in a Danish lowland stream. <i>Aquatic Botany</i> , 2011, 94, 188-192.	0.8	6
92	Buffer strip width and agricultural pesticide contamination in Danish lowland streams: Implications for stream and riparian management. <i>Ecological Engineering</i> , 2011, 37, 1990-1997.	1.6	65
93	Stream characteristics and their implications for the protection of riparian fens and meadows. <i>Freshwater Biology</i> , 2011, 56, 1893-1903.	1.2	7
94	Stream ecosystem properties and processes along a temperature gradient. <i>Aquatic Ecology</i> , 2011, 45, 231-242.	0.7	47
95	An evaluation of restoration practises in lowland streams: Has the physical integrity been re-created?. <i>Ecological Engineering</i> , 2011, 37, 1654-1660.	1.6	23
96	Can a priori defined reference criteria be used to select reference sites in Danish streams? Implications for implementing the Water Framework Directive. <i>Journal of Environmental Monitoring</i> , 2009, 11, 344-352.	2.1	29
97	The search for reference conditions for stream vegetation in northern Europe. <i>Freshwater Biology</i> , 2008, 53, 1890-1901.	1.2	45
98	Restoration of Skjern River and its valley – Short-term effects on river habitats, macrophytes and macroinvertebrates. <i>Ecological Engineering</i> , 2007, 30, 145-156.	1.6	65
99	Re-establishing freshwater wetlands in Denmark. <i>Ecological Engineering</i> , 2007, 30, 157-166.	1.6	85
100	Effects of stream restoration and management on plant communities in lowland streams. <i>Freshwater Biology</i> , 2006, 51, 161-179.	1.2	54
101	European river plant communities: the importance of organic pollution and the usefulness of existing macrophyte metrics. <i>Hydrobiologia</i> , 2006, 566, 211-234.	1.0	82
102	Macrophyte communities of European streams with altered physical habitat. <i>Hydrobiologia</i> , 2006, 566, 197-210.	1.0	62
103	Macrophyte communities in unimpacted European streams: variability in assemblage patterns, abundance and diversity. <i>Hydrobiologia</i> , 2006, 566, 179-196.	1.0	66
104	Macrophyte communities of European streams with altered physical habitat. , 2006, , 197-210.		1
105	European river plant communities: the importance of organic pollution and the usefulness of existing macrophyte metrics. , 2006, , 211-234.		3
106	The influence of channelisation on riparian plant assemblages. <i>Freshwater Biology</i> , 2005, 50, 1248-1261.	1.2	40
107	The New Danish Stream Monitoring Programme (Novana) – Preparing Monitoring Activities For The Water Framework Directive Era. <i>Environmental Monitoring and Assessment</i> , 2005, 111, 27-42.	1.3	37
108	Impacts of different weed cutting practices on macrophyte species diversity and composition in a Danish stream. <i>River Research and Applications</i> , 2004, 20, 103-114.	0.7	32

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109	Title is missing!. <i>Hydrobiologia</i> , 2003, 495, 171-179.	1.0	58
110	Long-term effects of stream management on plant communities in two Danish lowland streams. <i>Hydrobiologia</i> , 2002, 481, 33-45.	1.0	51
111	Restoration of a Danish headwater stream: short-term changes in plant species abundance and composition. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2000, 10, 13-23.	0.9	18
112	Weed-cutting practice and impact on trout density in Danish lowland streams. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 674-677.	0.1	2
113	Macrophyte diversity and composition in relation to substratum characteristics in regulated and unregulated Danish streams. <i>Freshwater Biology</i> , 1999, 42, 375-385.	1.2	121
114	Interdependence of CO <sub>2</sub> and inorganic nitrogen on crassulacean acid metabolism and efficiency of nitrogen use by <i>Littorella uniflora</i> (L.) Aschers. <i>Plant, Cell and Environment</i> , 1999, 22, 535-542.	2.8	21
115	Regulation of Growth and Photosynthetic Performance in <i>Elodea canadensis</i> in Response to Inorganic Nitrogen. <i>Functional Ecology</i> , 1995, 9, 239.	1.7	23
116	Periphyton responses to nitrogen decline and warming in eutrophic shallow lake mesocosms. <i>Hydrobiologia</i> , 0, , 1.	1.0	2