Annette Baattrup-Pedersen

List of Publications by Year
in descending order

116	4,174	117625	138484
papers	citations	34 h-index	58 g-index

118	118	118	4674
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. Nature Ecology and Evolution, 2020, 4, 1060-1068.	7.8	336
2	Protecting and restoring Europe's waters: An analysis of the future development needs of the Water Framework Directive. Science of the Total Environment, 2019, 658, 1228-1238.	8.0	295
3	Riparian plant community responses to increased flooding: a metaâ€analysis. Global Change Biology, 2015, 21, 2881-2890.	9.5	147
4	The legacy of pesticide pollution: An overlooked factor in current risk assessments of freshwater systems. Water Research, 2015, 84, 25-32.	11.3	130
5	Macrophyte diversity and composition in relation to substratum characteristics in regulated and unregulated Danish streams. Freshwater Biology, 1999, 42, 375-385.	2.4	121
6	Meta-analysis Shows a Consistent and Strong Latitudinal Pattern in Fish Omnivory Across Ecosystems. Ecosystems, 2012, 15, 492-503.	3.4	121
7	Using river microalgae as indicators for freshwater biomonitoring: Review of published research and future directions. Ecological Indicators, 2017, 81, 124-131.	6.3	98
8	Impacts of pesticides and natural stressors on leaf litter decomposition in agricultural streams. Science of the Total Environment, 2012, 416, 148-155.	8.0	97
9	Responses of Aquatic Plants to Eutrophication in Rivers: A Revised Conceptual Model. Frontiers in Plant Science, 2018, 9, 451.	3.6	94
10	Phosphorus Load to Surface Water from Bank Erosion in a Danish Lowland River Basin. Journal of Environmental Quality, 2012, 41, 304-313.	2.0	89
11	Re-establishing freshwater wetlands in Denmark. Ecological Engineering, 2007, 30, 157-166.	3.6	85
12	European river plant communities: the importance of organic pollution and the usefulness of existing macrophyte metrics. Hydrobiologia, 2006, 566, 211-234.	2.0	82
13	Catchment properties and the photosynthetic trait composition of freshwater plant communities. Science, 2019, 366, 878-881.	12.6	80
14	Macrophyte Complexity Controls Nutrient Uptake in Lowland Streams. Ecosystems, 2015, 18, 914-931.	3.4	77
15	Environmental and spatial controls of taxonomic versus trait composition of stream biota. Freshwater Biology, 2017, 62, 397-413.	2.4	73
16	Macrophyte communities in unimpacted European streams: variability in assemblage patterns, abundance and diversity. Hydrobiologia, 2006, 566, 179-196.	2.0	66
17	Restoration of Skjern River and its valleyâ€"Short-term effects on river habitats, macrophytes and macroinvertebrates. Ecological Engineering, 2007, 30, 145-156.	3.6	65
18	Buffer strip width and agricultural pesticide contamination in Danish lowland streams: Implications for stream and riparian management. Ecological Engineering, 2011, 37, 1990-1997.	3.6	65

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19	Stream habitat structure influences macroinvertebrate response to pesticides. Environmental Pollution, 2012, 164, 142-149.	7.5	64
20	Contrasting the roles of section length and instream habitat enhancement for river restoration success: a field study of 20 European restoration projects. Journal of Applied Ecology, 2015, 52, 1518-1527.	4.0	64
21	Macrophyte communities of European streams with altered physical habitat. Hydrobiologia, 2006, 566, 197-210.	2.0	62
22	Nitrous oxide fluxes in undisturbed riparian wetlands located in agricultural catchments: Emission, uptake and controlling factors. Soil Biology and Biochemistry, 2014, 68, 291-299.	8.8	62
23	Title is missing!. Hydrobiologia, 2003, 495, 171-179.	2.0	58
24	Effects of stream restoration and management on plant communities in lowland streams. Freshwater Biology, 2006, 51, 161-179.	2.4	54
25	Effects of a triazole fungicide and a pyrethroid insecticide on the decomposition of leaves in the presence or absence of macroinvertebrate shredders. Aquatic Toxicology, 2012, 118-119, 54-61.	4.0	54
26	Long-term effects of stream management on plant communities in two Danish lowland streams. Hydrobiologia, 2002, 481, 33-45.	2.0	51
27	Functional trait composition of aquatic plants can serve to disentangle multiple interacting stressors in lowland streams. Science of the Total Environment, 2016, 543, 230-238.	8.0	51
28	Stream ecosystem properties and processes along a temperature gradient. Aquatic Ecology, 2011, 45, 231-242.	1.5	47
29	The search for reference conditions for stream vegetation in northern Europe. Freshwater Biology, 2008, 53, 1890-1901.	2.4	45
30	Flow regimes filter species traits of benthic diatom communities and modify the functional features of lowland streams - a nationwide scale study. Science of the Total Environment, 2019, 651, 357-366.	8.0	44
31	The influence of channelisation on riparian plant assemblages. Freshwater Biology, 2005, 50, 1248-1261.	2.4	40
32	Structural and functional characteristics of buffer strip vegetation in an agricultural landscape â€“ high potential for nutrient removal but low potential for plant biodiversity. Science of the Total Environment, 2018, 628-629, 805-814.	8.0	39
33	The New Danish Stream Monitoring Programme (Novana) â€“ Preparing Monitoring Activities For The Water Framework Directive Era. Environmental Monitoring and Assessment, 2005, 111, 27-42.	2.7	37
34	Trait Characteristics Determine Pyrethroid Sensitivity in Nonstandard Test Species of Freshwater Macroinvertebrates: A Reality Check. Environmental Science & Technology, 2016, 50, 4971-4978.	10.0	37
35	Structural and functional responses of floodplain vegetation to stream ecosystem restoration. Hydrobiologia, 2016, 769, 79-92.	2.0	35
36	Impacts of different weed cutting practices on macrophyte species diversity and composition in a Danish stream. River Research and Applications, 2004, 20, 103-114.	1.7	32

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37	10 years after the largest river restoration project in Northern Europe: Hydromorphological changes on multiple scales in River Skjern. Ecological Engineering, 2014, 66, 141-149.	3.6	32
38	Multiple stress response of lowland stream benthic macroinvertebrates depends on habitat type. Science of the Total Environment, 2017, 599-600, 1517-1523.	8.0	32
39	Plant trait characteristics vary with size and eutrophication in <scp>E</scp>uropean lowland streams. Journal of Applied Ecology, 2015, 52, 1617-1628.	4.0	31
40	Effects of increased flooding on riparian vegetation: Field experiments simulating climate change along five European lowland streams. Global Change Biology, 2017, 23, 3052-3063.	9.5	31
41	Microbial community diversity and composition varies with habitat characteristics and biofilm function in macrophyteâ€rich streams. Oikos, 2017, 126, 398-409.	2.7	30
42	Can a priori defined reference criteria be used to select reference sites in Danish streams? Implications for implementing the Water Framework Directive. Journal of Environmental Monitoring, 2009, 11, 344-352.	2.1	29
43	Diversity and Distribution of Riparian Plant Communities in Relation to Stream Size and Eutrophication. Journal of Environmental Quality, 2012, 41, 348-354.	2.0	28
44	The River GelsÃ¥ restoration revisited: Habitat specific assemblages and persistence of the macroinvertebrate community over an 11-year period. Ecological Engineering, 2014, 66, 150-157.	3.6	28
45	Community structure of fish in lowland streams differ substantially between subtropical and temperate climates. Hydrobiologia, 2012, 684, 143-160.	2.0	25
46	Effects of stream flooding on the distribution and diversity of groundwaterâ€dependent vegetation in riparian areas. Freshwater Biology, 2013, 58, 817-827.	2.4	25
47	Short-period hydrological regimes override physico-chemical variables in shaping stream diatom traits, biomass and biofilm community functions. Science of the Total Environment, 2020, 743, 140720.	8.0	25
48	A comparison of nutrient uptake efficiency and growth rate between different macrophyte growth forms. Journal of Environmental Management, 2020, 274, 111181.	7.8	24
49	Regulation of Growth and Photosynthetic Performance in Elodea canadensis in Response to Inorganic Nitrogen. Functional Ecology, 1995, 9, 239.	3.6	23
50	Local physical habitat quality cloud the effect of predicted pesticide runoff from agricultural land in Danish streams. Journal of Environmental Monitoring, 2011, 13, 943.	2.1	23
51	An evaluation of restoration practises in lowland streams: Has the physical integrity been re-created?. Ecological Engineering, 2011, 37, 1654-1660.	3.6	23
52	Fast reaction of macroinvertebrate communities to stagnation and drought in streams with contrasting nutrient availability. Freshwater Science, 2014, 33, 847-859.	1.8	22
53	Interdependence of CO 2 and inorganic nitrogen on crassulacean acid metabolism and efficiency of nitrogen use by Littorella uniflora (L.) Aschers. Plant, Cell and Environment, 1999, 22, 535-542.	5.7	21
54	Methane emissions in Danish riparian wetlands: Ecosystem comparison and pursuit of vegetation indexes as predictive tools. Ecological Indicators, 2013, 34, 548-559.	6.3	21

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55	Environmental controls of plant species richness in riparian wetlands: Implications for restoration. Basic and Applied Ecology, 2015, 16, 480-489.	2.7	21
56	Monitoring fish communities in wadeable lowland streams: comparing the efficiency of electrofishing methods at contrasting fish assemblages. Environmental Monitoring and Assessment, 2014, 186, 1665-1677.	2.7	20
57	Impacts of habitat degradation and stream spatial location on biodiversity in a disturbed riverine landscape. Biodiversity and Conservation, 2015, 24, 1423-1441.	2.6	20
58	Responses of benthic algal communities and their traits to experimental changes in fine sediments, nutrients and flow. Freshwater Biology, 2017, 62, 1539-1550.	2.4	20
59	The response of hydrophyte growth forms and plant strategies to river restoration. Hydrobiologia, 2016, 769, 41-54.	2.0	19
60	Seasonal turnover in community composition of streamâ€associated macroinvertebrates inferred from freshwater environmental DNA metabarcoding. Environmental DNA, 2021, 3, 861-876.	5.8	19
61	Restoration of a Danish headwater stream: short-term changes in plant species abundance and composition. Aquatic Conservation: Marine and Freshwater Ecosystems, 2000, 10, 13-23.	2.0	18
62	Evaluating effects of weed cutting on water level and ecological status in Danish lowland streams. Freshwater Biology, 2018, 63, 652-661.	2.4	18
63	Headwater streams in the EU Water Framework Directive: Evidence-based decision support to select streams for river basin management plans. Science of the Total Environment, 2018, 613-614, 1048-1054.	8.0	18
64	Prediction of stream fish assemblages from land use characteristics: implications for cost-effective design of monitoring programmes. Environmental Monitoring and Assessment, 2012, 184, 1435-1448.	2.7	17
65	Comparison of metabolic rates among macrophyte and nonmacrophyte habitats in streams. Freshwater Science, 2016, 35, 834-844.	1.8	17
66	Distribution of invertebrates within beds of two morphologically contrasting stream macrophyte species. Fundamental and Applied Limnology, 2013, 183, 309-321.	0.7	16
67	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. Journal of Environmental Quality, 2019, 48, 322-329.	2.0	16
68	Effects of warming on annual production and nutrientâ€use efficiency of aquatic mosses in a high Arctic lake. Freshwater Biology, 2014, 59, 1622-1632.	2.4	15
69	Riverine macrophytes control seasonal nutrient uptake via both physical and biological pathways. Freshwater Biology, 2020, 65, 178-192.	2.4	15
70	Small-sized omnivorous fish induce stronger effects on food webs than warming and eutrophication in experimental shallow lakes. Science of the Total Environment, 2021, 797, 148998.	8.0	15
71	Bicarbonate use in three aquatic plants. Aquatic Botany, 2012, 98, 57-60.	1.6	14
72	Species Recruitment following Flooding, Sediment Deposition and Seed Addition in Restored Riparian Areas. Restoration Ecology, 2013, 21, 399-408.	2.9	14

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73	Seed germination from deposited sediments during high winter flow in riparian areas. Ecological Engineering, 2014, 66, 103-110.	3.6	14
74	Riparian forest as a management tool for moderating future thermal conditions of lowland temperate streams. Inland Waters, 2015, 5, 27-38.	2.2	14
75	Mosses in High-Arctic lakes: in situ measurements of annual primary production and decomposition. Polar Biology, 2016, 39, 543-552.	1.2	14
76	Structural and functional responses of plant communities to climate changeâ€mediated alterations in the hydrology of riparian areas in temperate Europe. Ecology and Evolution, 2018, 8, 4120-4135.	1.9	14
77	Experimental drought changes ecosystem structure and function in a macrophyte-rich stream. Aquatic Sciences, 2017, 79, 841-853.	1.5	13
78	Submerged freshwater plant communities do not show species complementarity effect in wetland mesocosms. Biology Letters, 2018, 14, 20180635.	2.3	13
79	The future of European water management: Demonstration of a new WFD compliant framework to support sustainable management under multiple stress. Science of the Total Environment, 2019, 654, 53-59.	8.0	13
80	Macrophytes enhance reach-scale metabolism on a daily, seasonal and annual basis in agricultural lowland streams. Aquatic Sciences, 2021, 83, 1.	1.5	13
81	From expert judgement to supervised classification: A new approach to assess ecological status in lowland streams. Science of the Total Environment, 2013, 447, 116-122.	8.0	12
82	Photosynthetic performance of submerged macrophytes from lowland stream and lake habitats with contrasting CO 2 availability. New Phytologist, 2013, 198, 1135-1142.	7.3	12
83	Influence of riparian forests on fish assemblages in temperate lowland streams. Environmental Biology of Fishes, 2016, 99, 133-144.	1.0	12
84	Riparian forest modifies fuelling sources for stream food webs but not food-chain length in lowland streams of Denmark. Hydrobiologia, 2018, 805, 291-310.	2.0	12
85	Predictive modelling of protected habitats in riparian areas from catchment characteristics. Ecological Indicators, 2012, 18, 227-235.	6.3	11
86	The role of species functional traits in distributional patterns of lowland stream vegetation. Freshwater Science, 2014, 33, 1074-1085.	1.8	11
87	A new paradigm for biomonitoring: an example building on the Danish Stream Plant Index. Methods in Ecology and Evolution, 2017, 8, 297-307.	5.2	11
88	Identifying potential gaps in pesticide risk assessment: Terrestrial life stages of freshwater insects. Journal of Applied Ecology, 2018, 55, 1510-1515.	4.0	11
89	Early dynamics in plant community trait responses to a novel, more extreme hydrological gradient. Journal of Plant Ecology, 2019, 12, 327-335.	2.3	11
90	Effects of low flow and co-occurring stressors on structural and functional characteristics of the benthic biofilm in small streams. Science of the Total Environment, 2020, 733, 139331.	8.0	10

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91	Influence of plant habitats on denitrification in lowland agricultural streams. Journal of Environmental Management, 2021, 286, 112193.	7.8	10
92	Microbial biofilm community dynamics in five lowland streams. Science of the Total Environment, 2021, 798, 149169.	8.0	10
93	Selection, implementation and cost of restorations in lowland streams: A basis for identifying restoration priorities. Environmental Science and Policy, 2012, 23, 1-11.	4.9	9
94	CATCHMENT CHARACTERISTICS AND PLANT RECRUITMENT FROM SEDIMENT IN STREAM AND MEADOW HABITATS. River Research and Applications, 2013, 29, 855-863.	1.7	9
95	Groundwater nitrogen and the distribution of groundwater-dependent vegetation in riparian areas in agricultural catchments. Ecological Engineering, 2014, 66, 111-119.	3.6	9
96	Nutrient kinetics in submerged plant beds: A mesocosm study simulating constructed drainage wetlands. Ecological Engineering, 2018, 122, 263-270.	3.6	9
97	Danish wetlands remained poor with plant species 17-years after restoration. Science of the Total Environment, 2021, 798, 149146.	8.0	9
98	Periphyton biomass and life-form responses to a gradient of discharge in contrasting light and nutrients scenarios in experimental lowland streams. Science of the Total Environment, 2022, 806, 150505.	8.0	9
99	Alkalinity and diatom assemblages in lowland streams: How to separate alkalinity from inorganic phosphorus in ecological assessments?. Science of the Total Environment, 2022, 823, 153829.	8.0	9
100	Whole-stream metabolism in nutrient-poor calcareous streams on Ã–land, Sweden. Aquatic Sciences, 2015, 77, 207-219.	1.5	8
101	Baseline identification in stable-isotope studies of temperate lotic systems and implications for calculated trophic positions. Freshwater Science, 2016, 35, 909-921.	1.8	8
102	Effects of different weed cutting methods on physical and hydromorphological conditions in lowland streams. Knowledge and Management of Aquatic Ecosystems, 2021, , 10.	1.1	8
103	Stream characteristics and their implications for the protection of riparian fens and meadows. Freshwater Biology, 2011, 56, 1893-1903.	2.4	7
104	Spatial distribution and temporal dynamic of the seed pool in a Danish lowland stream. Aquatic Botany, 2011, 94, 188-192.	1.6	6
105	Climate change effects on lowland stream flood regimes and riparian rich fen vegetation communities in Denmark. Hydrological Sciences Journal, 2016, 61, 344-358.	2.6	6
106	Genetic structure of the submersed Ranunculus baudotii (sect. Batrachium) population in a lowland stream in Denmark. Aquatic Botany, 2017, 136, 186-196.	1.6	6
107	Does Regular Harvesting Increase Plant Diversity in Buffer Strips Separating Agricultural Land and Surface Waters?. Frontiers in Environmental Science, 2018, 6, .	3.3	5
108	Nutrient availability and nutrient use efficiency in plants growing in the transition zone between land and water. Plant Biology, 2016, 18, 301-306.	3.8	3

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109	European river plant communities: the importance of organic pollution and the usefulness of existing macrophyte metrics. , 2006, , 211-234.		3
110	Epiphyton in Agricultural Streams: Structural Control and Comparison to Epilithon. Water (Switzerland), 2021, 13, 3443.	2.7	3
111	Weed-cutting practice and impact on trout density in Danish lowland streams. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 674-677.	0.1	2
112	Indicators of biomass and methane yields in vegetated buffer strips. Journal of Cleaner Production, 2019, 210, 907-915.	9.3	2
113	Periphyton responses to nitrogen decline and warming in eutrophic shallow lake mesocosms. Hydrobiologia, 0, , 1.	2.0	2
114	Macrophyte communities of European streams with altered physical habitat. , 2006, , 197-210.		1
115	Rare Potamogeton species can establish in restored Danish lowland stream reaches. Freshwater Biology, 2022, 67, 518-532.	2.4	1
116	Flow pulses shape periphyton differently according to local light and nutrient conditions in experimental lowland streams. Freshwater Biology, 2022, 67, 1272-1286.	2.4	0