

# Brian Kronvang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7738663/brian-kronvang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119  
papers

5,229  
citations

41  
h-index

70  
g-index

127  
ext. papers

5,874  
ext. citations

4.4  
avg, IF

5.4  
L-index

#	Paper	IF	Citations
119	Climate change effects on runoff, catchment phosphorus loading and lake ecological state, and potential adaptations. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 1930-41	3.4	407
118	Phosphorus retention in riparian buffers: review of their efficiency. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 1942-55	3.4	230
117	Nutrient pressures and ecological responses to nutrient loading reductions in Danish streams, lakes and coastal waters. <i>Journal of Hydrology</i> , <b>2005</b> , 304, 274-288	6	230
116	Climate change effects on nitrogen loading from cultivated catchments in Europe: implications for nitrogen retention, ecological state of lakes and adaptation. <i>Hydrobiologia</i> , <b>2011</b> , 663, 1-21	2.4	192
115	Effects of policy measures implemented in Denmark on nitrogen pollution of the aquatic environment. <i>Environmental Science and Policy</i> , <b>2008</b> , 11, 144-152	6.2	171
114	Sensors in the Stream: The High-Frequency Wave of the Present. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10297-10307	10.3	162
113	Policies for agricultural nitrogen management: trends, challenges and prospects for improved efficiency in Denmark. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 115002	6.2	151
112	CHOICE OF SAMPLING STRATEGY AND ESTIMATION METHOD FOR CALCULATING NITROGEN AND PHOSPHORUS TRANSPORT IN SMALL LOWLAND STREAMS. <i>Hydrological Processes</i> , <b>1996</b> , 10, 1483-1501	3.3	147
111	Climate-change impacts on hydrology and nutrients in a Danish lowland river basin. <i>Science of the Total Environment</i> , <b>2006</b> , 365, 223-37	10.2	133
110	SUSPENDED SEDIMENT AND PARTICULATE PHOSPHORUS TRANSPORT AND DELIVERY PATHWAYS IN AN ARABLE CATCHMENT, GELBÆK STREAM, DENMARK. <i>Hydrological Processes</i> , <b>1997</b> , 11, 627-642	3.3	131
109	Riparian buffer strips as a multifunctional management tool in agricultural landscapes: introduction. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 297-303	3.4	118
108	Phosphorus losses from agricultural areas in river basins: effects and uncertainties of targeted mitigation measures. <i>Journal of Environmental Quality</i> , <b>2005</b> , 34, 2129-44	3.4	114
107	Lake and catchment management in Denmark. <i>Hydrobiologia</i> , <b>1999</b> , 395/396, 419-432	2.4	103
106	Dynamics of phosphorus compounds in a lowland river system: Importance of retention and non-point sources. <i>Hydrological Processes</i> , <b>1995</b> , 9, 119-142	3.3	100
105	Loss of dissolved and particulate phosphorus from arable catchments by subsurface drainage. <i>Water Research</i> , <b>1996</b> , 30, 2633-2642	12.5	97
104	Phosphorus losses at the catchment scale within Europe: an overview. <i>Soil Use and Management</i> , <b>2007</b> , 23, 104-116	3.1	91
103	Sources, occurrence and predicted aquatic impact of legacy and contemporary pesticides in streams. <i>Environmental Pollution</i> , <b>2015</b> , 200, 64-76	9.3	90

102	Subsurface Drainage Loss of Particles and Phosphorus from Field Plot Experiments and a Tile-Drained Catchment. <i>Journal of Environmental Quality</i> , <b>1999</b> , 28, 576-584	3.4	84
101	Hydromorphological and biological factors influencing sediment and phosphorus loss via bank erosion in small lowland rural streams in Denmark. <i>Hydrological Processes</i> , <b>2003</b> , 17, 3443-3463	3.3	83
100	Impacts of pesticides and natural stressors on leaf litter decomposition in agricultural streams. <i>Science of the Total Environment</i> , <b>2012</b> , 416, 148-55	10.2	82
99	Retention of nitrogen and phosphorus in a Danish lowland river system: implications for the export from the watershed. <i>Hydrobiologia</i> , <b>1993</b> , 251, 123-135	2.4	77
98	Non-point-source nutrient losses to the aquatic environment in Denmark: impact of agriculture. <i>Marine and Freshwater Research</i> , <b>1995</b> , 46, 167	2.2	75
97	The export of particulate matter, particulate phosphorus and dissolved phosphorus from two agricultural river basins: Implications on estimating the non-point phosphorus load. <i>Water Research</i> , <b>1992</b> , 26, 1347-1358	12.5	74
96	Re-establishment of Danish streams: Restoration and maintenance measures. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>1993</b> , 3, 73-92	2.6	74
95	Phosphorus load to surface water from bank erosion in a Danish lowland river basin. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 304-13	3.4	71
94	Ensemble modelling of nutrient loads and nutrient load partitioning in 17 European catchments. <i>Journal of Environmental Monitoring</i> , <b>2009</b> , 11, 572-83		66
93	Evaluation of nutrient retention in four restored Danish riparian wetlands. <i>Hydrobiologia</i> , <b>2011</b> , 674, 5-24	2.4	64
92	Long-term, habitat-specific response of a macroinvertebrate community to river restoration. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>1998</b> , 8, 87-99	2.6	64
91	Retention of nutrients in river basins. <i>Aquatic Ecology</i> , <b>1999</b> , 33, 29-40	1.9	61
90	Stream habitat structure influences macroinvertebrate response to pesticides. <i>Environmental Pollution</i> , <b>2012</b> , 164, 142-9	9.3	56
89	Buffer strip width and agricultural pesticide contamination in Danish lowland streams: Implications for stream and riparian management. <i>Ecological Engineering</i> , <b>2011</b> , 37, 1990-1997	3.9	56
88	Changes in nitrogen loads to estuaries following implementation of governmental action plans in Denmark: A paired catchment and estuary approach for analysing regional responses. <i>Environmental Science and Policy</i> , <b>2012</b> , 24, 24-33	6.2	52
87	Description of nine nutrient loss models: capabilities and suitability based on their characteristics. <i>Journal of Environmental Monitoring</i> , <b>2009</b> , 11, 506-14		52
86	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> , <b>2012</b> , 118-119, 54-61	5.1	47
85	A distributed modelling system for simulation of monthly runoff and nitrogen sources, loads and sinks for ungauged catchments in Denmark. <i>Journal of Environmental Monitoring</i> , <b>2011</b> , 13, 2645-58		47

84	International phosphorus workshop: diffuse phosphorus loss to surface water bodies--risk assessment, mitigation options, and ecological effects in river basins. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 1924-9	3.4	46
83	Nitrogen and phosphorus retention in surface waters: an inter-comparison of predictions by catchment models of different complexity. <i>Journal of Environmental Monitoring</i> , <b>2009</b> , 11, 584-93		44
82	A catchment scale evaluation of multiple stressor effects in headwater streams. <i>Science of the Total Environment</i> , <b>2013</b> , 442, 420-31	10.2	43
81	Importance of bank erosion for sediment input, storage and export at the catchment scale. <i>Journal of Soils and Sediments</i> , <b>2013</b> , 13, 230-241	3.4	42
80	Restoration of the rivers Brede, Cole and Skerne: a joint Danish and British EU-LIFE demonstration project, channel morphology, hydrodynamics and transport of sediment and nutrients. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>1998</b> , 8, 209-222	2.6	42
79	Restoration of a channelized reach of the River Gelsø Denmark: Effects on the macroinvertebrate community. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>1994</b> , 4, 289-296	2.6	42
78	Sediment deposition and net phosphorus retention in a hydraulically restored lowland river floodplain in Denmark: combining field and laboratory experiments. <i>Marine and Freshwater Research</i> , <b>2009</b> , 60, 638	2.2	40
77	Nitrogen and Phosphorus Removal from Agricultural Runoff in Integrated Buffer Zones. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6508-6517	10.3	39
76	Low phosphorus release but high nitrogen removal in two restored riparian wetlands inundated with agricultural drainage water. <i>Ecological Engineering</i> , <b>2012</b> , 46, 75-87	3.9	38
75	Water Exchange and Deposition of Sediment and Phosphorus during Inundation of Natural and Restored Lowland Floodplains. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 181, 115-121	2.6	37
74	Integrated assessment of the impact of chemical stressors on surface water ecosystems. <i>Science of the Total Environment</i> , <b>2012</b> , 427-428, 319-31	10.2	36
73	The multifunctional roles of vegetated strips around and within agricultural fields. <i>Environmental Evidence</i> , <b>2018</b> , 7,	3.3	32
72	Macroinvertebrate/sediment relationships along a pesticide gradient in Danish streams. <i>Hydrobiologia</i> , <b>2003</b> , 494, 103-110	2.4	31
71	Ecological effects of re-introduction of salmonid spawning gravel in lowland Danish streams. <i>River Research and Applications</i> , <b>2009</b> , 25, 626-638	2.3	29
70	Sediment and phosphorus export from a lowland catchment: Quantification of sources. <i>Water, Air, and Soil Pollution</i> , <b>1997</b> , 99, 465-476	2.6	29
69	Development, validation and application of Danish empirical phosphorus models. <i>Journal of Hydrology</i> , <b>2005</b> , 304, 355-365	6	29
68	Phosphorus dynamics and export in streams draining micro-catchments: Development of empirical models. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2003</b> , 166, 469-474	2.3	28
67	Current Insights into the Effectiveness of Riparian Management, Attainment of Multiple Benefits, and Potential Technical Enhancements. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 236-247	3.4	27

66	Basin characteristics and nutrient losses: the EUROHARP catchment network perspective. <i>Journal of Environmental Monitoring</i> , <b>2009</b> , 11, 515-25		26
65	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> , <b>2009</b> , 11, 344-52		26
64	Interacting effects of climate and agriculture on fluvial DOM in temperate and subtropical catchments. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 2377-2394	5.5	25
63	High-resolution monitoring of nutrients in groundwater and surface waters: process understanding, quantification of loads and concentrations, and management applications. <i>Hydrology and Earth System Sciences</i> , <b>2016</b> , 20, 3619-3629	5.5	25
62	Pursuing collective impact: A novel indicator-based approach to assessment of shared measurements when planning for multifunctional land consolidation. <i>Land Use Policy</i> , <b>2018</b> , 73, 102-114 <sup>5.6</sup>		24
61	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> , <b>2018</b> , 628-629, 805-814	10.2	24
60	Threshold values and management options for nutrients in a catchment of a temperate estuary with poor ecological status. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 2663-2683	5.5	24
59	Effects of stream flooding on the distribution and diversity of groundwater-dependent vegetation in riparian areas. <i>Freshwater Biology</i> , <b>2013</b> , 58, 817-827	3.1	23
58	Local physical habitat quality cloud the effect of predicted pesticide runoff from agricultural land in Danish streams. <i>Journal of Environmental Monitoring</i> , <b>2011</b> , 13, 943-50		23
57	Technical Note: Comparison between a direct and the standard, indirect method for dissolved organic nitrogen determination in freshwater environments with high dissolved inorganic nitrogen concentrations. <i>Biogeosciences</i> , <b>2012</b> , 9, 4873-4884	4.6	22
56	Danish and other European experiences in managing shallow lakes. <i>Lake and Reservoir Management</i> , <b>2007</b> , 23, 439-451	1.3	21
55	The multifunctional roles of vegetated strips around and within agricultural fields. A systematic map protocol. <i>Environmental Evidence</i> , <b>2016</b> , 5,	3.3	21
54	Efficiency of mitigation measures targeting nutrient losses from agricultural drainage systems: A review. <i>Ambio</i> , <b>2020</b> , 49, 1820-1837	6.5	20
53	Modifying And Evaluating a P Index For Denmark. <i>Water, Air, and Soil Pollution</i> , <b>2006</b> , 174, 341-353	2.6	20
52	Controlled Drainage as a Targeted Mitigation Measure for Nitrogen and Phosphorus. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 677-685	3.4	16
51	Modelling sediment and total phosphorus export from a lowland catchment: comparing sediment routing methods. <i>Hydrological Processes</i> , <b>2015</b> , 29, 280-294	3.3	16
50	Comparison of sampling methodologies for nutrient monitoring in streams: uncertainties, costs and implications for mitigation. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 4721-4731	5.5	16
49	Diversity and distribution of riparian plant communities in relation to stream size and eutrophication. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 348-54	3.4	16

48	Potential impacts of a future Nordic bioeconomy on surface water quality. <i>Ambio</i> , <b>2020</b> , 49, 1722-1735	6.5	15
47	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 362-375	3.4	14
46	Environmental controls of plant species richness in riparian wetlands: Implications for restoration. <i>Basic and Applied Ecology</i> , <b>2015</b> , 16, 480-489	3.2	14
45	Linking floodplain hydraulics and sedimentation patterns along a restored river channel: River Odense, Denmark. <i>Ecological Engineering</i> , <b>2014</b> , 66, 120-128	3.9	14
44	Monitoring strategies of stream phosphorus under contrasting climate-driven flow regimes. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 4099-4111	5.5	14
43	Restoration of the Rivers Brede, Cole and Skerne: a joint Danish and British EU-LIFE demonstration project, IVImplications for nitrate and iron transformation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , <b>1998</b> , 8, 223-240	2.6	14
42	Species Recruitment following Flooding, Sediment Deposition and Seed Addition in Restored Riparian Areas. <i>Restoration Ecology</i> , <b>2013</b> , 21, 399-408	3.1	13
41	Seed germination from deposited sediments during high winter flow in riparian areas. <i>Ecological Engineering</i> , <b>2014</b> , 66, 103-110	3.9	12
40	Rivers of the Central European Highlands and Plains <b>2009</b> , 525-576		12
39	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 322-329	3.4	11
38	Predicting phosphorus losses with the PLEASE model on a local scale in Denmark and the Netherlands. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 1617-26	3.4	11
37	An overview of nutrient transport mitigation measures for improvement of water quality in Denmark. <i>Ecological Engineering</i> , <b>2020</b> , 155, 105863	3.9	10
36	Occurrence of Sediment-Bound Pyrethroids in Danish Streams and their Impact on Ecosystem Function. <i>Water, Air and Soil Pollution</i> , <b>2006</b> , 6, 423-432		10
35	Nitrogen in Water-Portugal and Denmark: Two Contrasting Realities. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1114		9
34	Evaluating effects of weed cutting on water level and ecological status in Danish lowland streams. <i>Freshwater Biology</i> , <b>2018</b> , 63, 652-661	3.1	8
33	Groundwater nitrogen and the distribution of groundwater-dependent vegetation in riparian areas in agricultural catchments. <i>Ecological Engineering</i> , <b>2014</b> , 66, 111-119	3.9	8
32	Linked catchment and scenario analysis of nitrogen leaching and loading: a case-study from a Danish catchment-fjord system, Mariager Fjord. <i>Physics and Chemistry of the Earth</i> , <b>2002</b> , 27, 691-699	3	8
31	Going with the flow: Planktonic processing of dissolved organic carbon in streams. <i>Science of the Total Environment</i> , <b>2018</b> , 625, 519-530	10.2	7

30	Stream characteristics and their implications for the protection of riparian fens and meadows. <i>Freshwater Biology</i> , <b>2011</b> , 56, 1893-1903	3.1	7
29	Linking monitoring and modelling for river basin management: Danish experience with combating nutrient loadings to the aquatic environment from point and non-point sources. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 3335-3347		7
28	Dialysis is superior to anion exchange for removal of dissolved inorganic nitrogen from freshwater samples prior to dissolved organic nitrogen determination. <i>Environmental Chemistry</i> , <b>2012</b> , 9, 529	3.2	7
27	Land-use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. <i>Hydrological Processes</i> , <b>2020</b> , 34, 4831-4850	3.3	7
26	Distributed water erosion modelling at fine spatial resolution across Denmark. <i>Geomorphology</i> , <b>2019</b> , 342, 150-162	4.3	6
25	Influence of Farming Intensity and Climate on Lowland Stream Nitrogen. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1021	3	6
24	Three decades of regulation of agricultural nitrogen losses: Experiences from the Danish Agricultural Monitoring Program. <i>Science of the Total Environment</i> , <b>2021</b> , 787, 147619	10.2	6
23	Conceptual Mini-Catchment Typologies for Testing Dominant Controls of Nutrient Dynamics in Three Nordic Countries. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1776	3	5
22	A Simplified Nitrogen Assessment in Tagus River Basin: A Management Focused Review. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 406	3	5
21	Documenting success stories of management of phosphorus emissions at catchment scale: an example from the pilot river Odense, Denmark. <i>Water Science and Technology</i> , <b>2016</b> , 74, 2097-2104	2.2	5
20	Modelling diffuse nitrogen loadings of ungauged and unmonitored lakes in Denmark: Application of an integrated modelling framework. <i>International Journal of River Basin Management</i> , <b>2009</b> , 7, 245-257	1.7	4
19	Phosphorus Mobility in the Landscape. <i>Agronomy</i> , 941-979	0.8	4
18	Can controlled drainage control agricultural nutrient emissions? Evidence from a BACI experiment combined with a dual isotope approach		4
17	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. <i>Limnologica</i> , <b>2018</b> , 68, 82-91	2	4
16	Recent Climate-Induced Changes in Freshwaters in Denmark 155-171		4
15	Exploring the interdisciplinary potential of the Agenda2030 Interactions between five Danish societal demands for sustainable land use. <i>Land Use Policy</i> , <b>2020</b> , 94, 104501	5.6	3
14	Does Regular Harvesting Increase Plant Diversity in Buffer Strips Separating Agricultural Land and Surface Waters?. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	3
13	Interactions between sediments and water: perspectives on the 12th International Association for Sediment Water Science Symposium. <i>Journal of Soils and Sediments</i> , <b>2012</b> , 12, 1497-1500	3.4	3

12	Interactions between sediments and water. <i>Hydrobiologia</i> , <b>2003</b> , 494, 1-4	2.4	3
11	Multi-functional benefits from targeted set-aside land in a Danish catchment. <i>Ambio</i> , <b>2020</b> , 49, 1808-1810	5	3
10	Suspended matter and associated contaminants in Danish streams: a national analysis. <i>Journal of Soils and Sediments</i> , <b>2019</b> , 19, 3068-3082	3.4	2
9	Comparison of active and passive stream restoration: effects on the physical habitats. <i>Geografisk Tidsskrift</i> , <b>2013</b> , 113, 109-120	1.5	2
8	Comparing nutrient reference concentrations in Nordic countries with focus on lowland rivers. <i>Ambio</i> , <b>2020</b> , 49, 1771-1783	6.5	2
7	Nitrogen removal and greenhouse gas fluxes from integrated buffer zones treating agricultural drainage water. <i>Science of the Total Environment</i> , <b>2021</b> , 774, 145070	10.2	2
6	Long-term, habitat-specific response of a macroinvertebrate community to river restoration <b>1998</b> , 8, 87		2
5	DNMARK: Danish Nitrogen Mitigation Assessment: Research and Know-how for a Sustainable, Low-Nitrogen Food Production <b>2020</b> , 363-376		1
4	Agriculture and stream water quality [Future challenges for monitoring. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , <b>2015</b> , 65, 139-143	1.1	
3	Habitat surveys as a tool to assess the benefits of stream rehabilitation II: macroinvertebrate communities. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , <b>2000</b> , 27, 1510-1514		
2	Rivers of the Central European Highlands and Plains <b>2022</b> , 717-773		
1	Occurrence of Sediment-Bound Pyrethroids in Danish Streams and Their Impact on Ecosystem Function <b>2006</b> , 59-68		