

Brian Kronvang

List of Publications by Year in descending order

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120
papers

6,530
citations

66250

44
h-index

78623

77
g-index

127
all docs

127
docs citations

127
times ranked

7044
citing authors

#	ARTICLE	IF	CITATIONS
1	Rivers of the Central European Highlands and Plains. , 2022, , 717-773.		0
2	Nitrogen removal and greenhouse gas fluxes from integrated buffer zones treating agricultural drainage water. Science of the Total Environment, 2021, 774, 145070.	3.9	7
3	Three decades of regulation of agricultural nitrogen losses: Experiences from the Danish Agricultural Monitoring Program. Science of the Total Environment, 2021, 787, 147619.	3.9	23
4	Comparing nutrient reference concentrations in Nordic countries with focus on lowland rivers. Ambio, 2020, 49, 1771-1783.	2.8	8
5	Land use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. Hydrological Processes, 2020, 34, 4831-4850.	1.1	20
6	Catchment effects of a future Nordic bioeconomy: From land use to water resources. Ambio, 2020, 49, 1697-1709.	2.8	8
7	Land Use and Water Quality. Water (Switzerland), 2020, 12, 2412.	1.2	8
8	Potential impacts of a future Nordic bioeconomy on surface water quality. Ambio, 2020, 49, 1722-1735.	2.8	31
9	Multi-functional benefits from targeted set-aside land in a Danish catchment. Ambio, 2020, 49, 1808-1819.	2.8	6
10	An overview of nutrient transport mitigation measures for improvement of water quality in Denmark. Ecological Engineering, 2020, 155, 105863.	1.6	28
11	Efficiency of mitigation measures targeting nutrient losses from agricultural drainage systems: A review. Ambio, 2020, 49, 1820-1837.	2.8	53
12	Conceptual Mini-Catchment Typologies for Testing Dominant Controls of Nutrient Dynamics in Three Nordic Countries. Water (Switzerland), 2020, 12, 1776.	1.2	12
13	Exploring the interdisciplinary potential of the Agenda2030's Interactions between five Danish societal demands for sustainable land use. Land Use Policy, 2020, 94, 104501.	2.5	8
14	Influence of Farming Intensity and Climate on Lowland Stream Nitrogen. Water (Switzerland), 2020, 12, 1021.	1.2	16
15	DNMARK: Danish Nitrogen Mitigation Assessment: Research and Know-how for a Sustainable, Low-Nitrogen Food Production. , 2020, , 363-376.		1
16	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. Journal of Environmental Quality, 2019, 48, 322-329.	1.0	16
17	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. Journal of Environmental Quality, 2019, 48, 362-375.	1.0	29
18	Distributed water erosion modelling at fine spatial resolution across Denmark. Geomorphology, 2019, 342, 150-162.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Nitrogen in Water-Portugal and Denmark: Two Contrasting Realities. <i>Water (Switzerland)</i> , 2019, 11, 1114.	1.2	11
20	Controlled Drainage as a Targeted Mitigation Measure for Nitrogen and Phosphorus. <i>Journal of Environmental Quality</i> , 2019, 48, 677-685.	1.0	25
21	Suspended matter and associated contaminants in Danish streams: a national analysis. <i>Journal of Soils and Sediments</i> , 2019, 19, 3068-3082.	1.5	5
22	Current Insights into the Effectiveness of Riparian Management, Attainment of Multiple Benefits, and Potential Technical Enhancements. <i>Journal of Environmental Quality</i> , 2019, 48, 236-247.	1.0	44
23	Pursuing collective impact: A novel indicator-based approach to assessment of shared measurements when planning for multifunctional land consolidation. <i>Land Use Policy</i> , 2018, 73, 102-114.	2.5	33
24	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
25	Going with the flow: Planktonic processing of dissolved organic carbon in streams. <i>Science of the Total Environment</i> , 2018, 625, 519-530.	3.9	10
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	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. <i>Limnologica</i> , 2018, 68, 82-91.	0.7	8
28	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
29	A Simplified Nitrogen Assessment in Tagus River Basin: A Management Focused Review. <i>Water (Switzerland)</i> , 2018, 10, 406.	1.2	9
30	The multifunctional roles of vegetated strips around and within agricultural fields. <i>Environmental Evidence</i> , 2018, 7, .	1.1	59
31	Nitrogen and Phosphorus Removal from Agricultural Runoff in Integrated Buffer Zones. <i>Environmental Science & Technology</i> , 2018, 52, 6508-6517.	4.6	71
32	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> , 2016, 20, 3619-3629.	1.9	30
33	The multifunctional roles of vegetated strips around and within agricultural fields. A systematic map protocol. <i>Environmental Evidence</i> , 2016, 5, .	1.1	38
34	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> , 2016, 74, 2097-2104.	1.2	5
35	Sensors in the Stream: The High-Frequency Wave of the Present. <i>Environmental Science & Technology</i> , 2016, 50, 10297-10307.	4.6	239
36	Monitoring strategies of stream phosphorus under contrasting climate-driven flow regimes. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4099-4111.	1.9	24

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37	Interacting effects of climate and agriculture on fluvial DOM in temperate and subtropical catchments. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2377-2394.	1.9	28
38	Sources, occurrence and predicted aquatic impact of legacy and contemporary pesticides in streams. <i>Environmental Pollution</i> , 2015, 200, 64-76.	3.7	129
39	Agriculture and stream water quality – future challenges for monitoring. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 139-143.	0.3	0
40	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
41	Modelling sediment and total phosphorus export from a lowland catchment: comparing sediment routing methods. <i>Hydrological Processes</i> , 2015, 29, 280-294.	1.1	18
42	Comparison of sampling methodologies for nutrient monitoring in streams: uncertainties, costs and implications for mitigation. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4721-4731.	1.9	17
43	Policies for agricultural nitrogen management – trends, challenges and prospects for improved efficiency in Denmark. <i>Environmental Research Letters</i> , 2014, 9, 115002.	2.2	184
44	Linking floodplain hydraulics and sedimentation patterns along a restored river channel: River Odense, Denmark. <i>Ecological Engineering</i> , 2014, 66, 120-128.	1.6	18
45	Seed germination from deposited sediments during high winter flow in riparian areas. <i>Ecological Engineering</i> , 2014, 66, 103-110.	1.6	14
46	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
47	Comparison of active and passive stream restoration: effects on the physical habitats. <i>Geografisk Tidsskrift</i> , 2013, 113, 109-120.	0.4	5
48	Importance of bank erosion for sediment input, storage and export at the catchment scale. <i>Journal of Soils and Sediments</i> , 2013, 13, 230-241.	1.5	53
49	A catchment scale evaluation of multiple stressor effects in headwater streams. <i>Science of the Total Environment</i> , 2013, 442, 420-431.	3.9	56
50	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
51	Species Recruitment following Flooding, Sediment Deposition and Seed Addition in Restored Riparian Areas. <i>Restoration Ecology</i> , 2013, 21, 399-408.	1.4	14
52	Riparian Buffer Strips as a Multifunctional Management Tool in Agricultural Landscapes: Introduction. <i>Journal of Environmental Quality</i> , 2012, 41, 297-303.	1.0	166
53	Interactions between sediments and water: perspectives on the 12th International Association for Sediment Water Science Symposium. <i>Journal of Soils and Sediments</i> , 2012, 12, 1497-1500.	1.5	3
54	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

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55	Low phosphorus release but high nitrogen removal in two restored riparian wetlands inundated with agricultural drainage water. <i>Ecological Engineering</i> , 2012, 46, 75-87.	1.6	48
56	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> , 2012, 24, 24-33.	2.4	59
57	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> , 2012, 16, 2663-2683.	1.9	26
58	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> , 2012, 9, 4873-4884.	1.3	28
59	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
60	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
61	Stream habitat structure influences macroinvertebrate response to pesticides. <i>Environmental Pollution</i> , 2012, 164, 142-149.	3.7	64
62	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
63	Integrated assessment of the impact of chemical stressors on surface water ecosystems. <i>Science of the Total Environment</i> , 2012, 427-428, 319-331.	3.9	41
64	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> , 2012, 9, 529.	0.7	8
65	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> , 2011, 13, 2645.	2.1	53
66	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
67	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
68	Stream characteristics and their implications for the protection of riparian fens and meadows. <i>Freshwater Biology</i> , 2011, 56, 1893-1903.	1.2	7
69	Climate change effects on nitrogen loading from cultivated catchments in Europe: implications for nitrogen retention, ecological state of lakes and adaptation. <i>Hydrobiologia</i> , 2011, 663, 1-21.	1.0	242
70	Evaluation of nutrient retention in four restored Danish riparian wetlands. <i>Hydrobiologia</i> , 2011, 674, 5-24.	1.0	74
71	Predicting Phosphorus Losses with the PLEASE Model on a Local Scale in Denmark and the Netherlands. <i>Journal of Environmental Quality</i> , 2011, 40, 1617-1626.	1.0	13
72	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> , 2009, 38, 1924-1929.	1.0	55

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73	Phosphorus Retention in Riparian Buffers: Review of Their Efficiency. <i>Journal of Environmental Quality</i> , 2009, 38, 1942-1955.	1.0	287
74	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> , 2009, 7, 245-257.	1.5	5
75	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> , 2009, 52, 3335-3347.	0.9	8
76	Ecological effects of re-introduction of salmonid spawning gravel in lowland Danish streams. <i>River Research and Applications</i> , 2009, 25, 626-638.	0.7	33
77	Nitrogen and phosphorus retention in surface waters: an inter-comparison of predictions by catchment models of different complexity. <i>Journal of Environmental Monitoring</i> , 2009, 11, 584.	2.1	53
78	Towards European harmonised procedures for quantification of nutrient losses from diffuse sources—the EUROHARP project. <i>Journal of Environmental Monitoring</i> , 2009, 11, 503.	2.1	20
79	Basin characteristics and nutrient losses: the EUROHARP catchment network perspective. <i>Journal of Environmental Monitoring</i> , 2009, 11, 515.	2.1	27
80	Ensemble modelling of nutrient loads and nutrient load partitioning in 17 European catchments. <i>Journal of Environmental Monitoring</i> , 2009, 11, 572.	2.1	75
81	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
82	Description of nine nutrient loss models: capabilities and suitability based on their characteristics. <i>Journal of Environmental Monitoring</i> , 2009, 11, 506.	2.1	59
83	Climate Change Effects on Runoff, Catchment Phosphorus Loading and Lake Ecological State, and Potential Adaptations. <i>Journal of Environmental Quality</i> , 2009, 38, 1930-1941.	1.0	502
84	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> , 2009, 60, 638.	0.7	43
85	Rivers of the Central European Highlands and Plains. , 2009, , 525-576.		16
86	Effects of policy measures implemented in Denmark on nitrogen pollution of the aquatic environment. <i>Environmental Science and Policy</i> , 2008, 11, 144-152.	2.4	197
87	Danish and other European experiences in managing shallow lakes. <i>Lake and Reservoir Management</i> , 2007, 23, 439-451.	0.4	25
88	Phosphorus losses at the catchment scale within Europe: an overview. <i>Soil Use and Management</i> , 2007, 23, 104-116.	2.6	113
89	Water Exchange and Deposition of Sediment and Phosphorus during Inundation of Natural and Restored Lowland Floodplains. <i>Water, Air, and Soil Pollution</i> , 2007, 181, 115-121.	1.1	44
90	Occurrence of Sediment-Bound Pyrethroids in Danish Streams and their Impact on Ecosystem Function. <i>Water, Air and Soil Pollution</i> , 2006, 6, 423-432.	0.8	10

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91	Modifying And Evaluating a P Index For Denmark. <i>Water, Air, and Soil Pollution</i> , 2006, 174, 341-353.	1.1	26
92	Climate-change impacts on hydrology and nutrients in a Danish lowland river basin. <i>Science of the Total Environment</i> , 2006, 365, 223-237.	3.9	147
93	Occurrence of Sediment-Bound Pyrethroids in Danish Streams and Their Impact on Ecosystem Function. , 2006, , 59-68.		0
94	Phosphorus Losses from Agricultural Areas in River Basins. <i>Journal of Environmental Quality</i> , 2005, 34, 2129-2144.	1.0	132
95	Nutrient pressures and ecological responses to nutrient loading reductions in Danish streams, lakes and coastal waters. <i>Journal of Hydrology</i> , 2005, 304, 274-288.	2.3	264
96	Development, validation and application of Danish empirical phosphorus models. <i>Journal of Hydrology</i> , 2005, 304, 355-365.	2.3	33
97	Interactions between sediments and water. <i>Hydrobiologia</i> , 2003, 494, 1-4.	1.0	3
98	Macroinvertebrate/sediment relationships along a pesticide gradient in Danish streams. <i>Hydrobiologia</i> , 2003, 494, 103-110.	1.0	34
99	Hydromorphological and biological factors influencing sediment and phosphorus loss via bank erosion in small lowland rural streams in Denmark. <i>Hydrological Processes</i> , 2003, 17, 3443-3463.	1.1	103
100	Phosphorus dynamics and export in streams draining micro-catchments: Development of empirical models. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 469-474.	1.1	29
101	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> , 2002, 27, 691-699.	1.2	8
102	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> , 2000, 27, 1510-1514.	0.1	0
103	Subsurface Drainage Loss of Particles and Phosphorus from Field Plot Experiments and a Tileâ€Drained Catchment. <i>Journal of Environmental Quality</i> , 1999, 28, 576-584.	1.0	95
104	Lake and catchment management in Denmark. <i>Hydrobiologia</i> , 1999, 395/396, 419-432.	1.0	109
105	Retention of nutrients in river basins. <i>Aquatic Ecology</i> , 1999, 33, 29-40.	0.7	78
106	Restoration of the rivers Brede, Cole and Skerne: a joint Danish and British EU-LIFE demonstration project, IIIâ€channel morphology, hydrodynamics and transport of sediment and nutrients. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1998, 8, 209-222.	0.9	46
107	Restoration of the Rivers Brede, Cole and Skerne: a joint Danish and British EU-LIFE demonstration project, IVâ€implications for nitrate and iron transformation. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1998, 8, 223-240.	0.9	17
108	Long-term, habitat-specific response of a macroinvertebrate community to river restoration. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 1998, 8, 87-99.	0.9	77

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109	Long-term, habitat-specific response of a macroinvertebrate community to river restoration. , 1998, 8, 87.		2
110	Sediment and phosphorus export from a lowland catchment: Quantification of sources. Water, Air, and Soil Pollution, 1997, 99, 465-476.	1.1	35
111	SUSPENDED SEDIMENT AND PARTICULATE PHOSPHORUS TRANSPORT AND DELIVERY PATHWAYS IN AN ARABLE CATCHMENT, GELBÅK STREAM, DENMARK. Hydrological Processes, 1997, 11, 627-642.	1.1	149
112	Loss of dissolved and particulate phosphorus from arable catchments by subsurface drainage. Water Research, 1996, 30, 2633-2642.	5.3	111
113	CHOICE OF SAMPLING STRATEGY AND ESTIMATION METHOD FOR CALCULATING NITROGEN AND PHOSPHORUS TRANSPORT IN SMALL LOWLAND STREAMS. Hydrological Processes, 1996, 10, 1483-1501.	1.1	171
114	Dynamics of phosphorus compounds in a lowland river system: Importance of retention and non-point sources. Hydrological Processes, 1995, 9, 119-142.	1.1	116
115	Non-point-source nutrient losses to the aquatic environment in Denmark: impact of agriculture. Marine and Freshwater Research, 1995, 46, 167.	0.7	86
116	Restoration of a channelized reach of the River GelsÅ, Denmark: Effects on the macroinvertebrate community. Aquatic Conservation: Marine and Freshwater Ecosystems, 1994, 4, 289-296.	0.9	43
117	Re-establishment of Danish streams: Restoration and maintenance measures. Aquatic Conservation: Marine and Freshwater Ecosystems, 1993, 3, 73-92.	0.9	88
118	Retention of nitrogen and phosphorus in a Danish lowland river system: implications for the export from the watershed. Hydrobiologia, 1993, 251, 123-135.	1.0	80
119	The export of particulate matter, particulate phosphorus and dissolved phosphorus from two agricultural river basins: Implications on estimating the non-point phosphorus load. Water Research, 1992, 26, 1347-1358.	5.3	84
120	Phosphorus Mobility in the Landscape. Agronomy, 0, , 941-979.	0.2	9