

Joachim Audet

List of Publications by Citations

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

64 papers	2,855 citations	26 h-index	53 g-index
73 ext. papers	3,770 ext. citations	6.9 avg, IF	5.44 L-index

#	Paper	IF	Citations
64	Chemodiversity of dissolved organic matter in lakes driven by climate and hydrology. <i>Nature Communications</i> , 2014 , 5, 3804	17.4	312
63	Persistence of dissolved organic matter in lakes related to its molecular characteristics. <i>Nature Geoscience</i> , 2015 , 8, 454-457	18.3	288
62	Controls of dissolved organic matter quality: evidence from a large-scale boreal lake survey. <i>Global Change Biology</i> , 2014 , 20, 1101-14	11.4	207
61	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	2.4	192
60	Organic carbon decomposition rates controlled by water retention time across inland waters. <i>Nature Geoscience</i> , 2016 , 9, 501-504	18.3	192
59	Inner filter correction of dissolved organic matter fluorescence. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 616-630	2.6	167
58	Selective loss and preservation of lake water dissolved organic matter fluorescence during long-term dark incubations. <i>Science of the Total Environment</i> , 2012 , 433, 238-46	10.2	116
57	Eutrophication effects on greenhouse gas fluxes from shallow-lake mesocosms override those of climate warming. <i>Global Change Biology</i> , 2015 , 21, 4449-63	11.4	82
56	Synergy between nutrients and warming enhances methane ebullition from experimental lakes. <i>Nature Climate Change</i> , 2018 , 8, 156-160	21.4	77
55	Influence of dissolved organic matter concentration and composition on the removal efficiency of perfluoroalkyl substances (PFASs) during drinking water treatment. <i>Water Research</i> , 2017 , 121, 320-328	12.5	72
54	Phosphorus load to surface water from bank erosion in a Danish lowland river basin. <i>Journal of Environmental Quality</i> , 2012 , 41, 304-13	3.4	71
53	Variability in organic carbon reactivity across lake residence time and trophic gradients. <i>Nature Geoscience</i> , 2017 , 10, 832-835	18.3	68
52	The relative influence of land cover, hydrology, and in-stream processing on the composition of dissolved organic matter in boreal streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1491-1505	3.7	67
51	Evaluation of nutrient retention in four restored Danish riparian wetlands. <i>Hydrobiologia</i> , 2011 , 674, 5-24	2.4	64
50	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	7.5	52
49	Greenhouse gas emissions from a Danish riparian wetland before and after restoration. <i>Ecological Engineering</i> , 2013 , 57, 170-182	3.9	46
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	3.4	42

47	Wetland buffer zones for nitrogen and phosphorus retention: Impacts of soil type, hydrology and vegetation. <i>Science of the Total Environment</i> , 2020 , 727, 138709	10.2	40
46	Nitrogen and Phosphorus Removal from Agricultural Runoff in Integrated Buffer Zones. <i>Environmental Science & Technology</i> , 2018 , 52, 6508-6517	10.3	39
45	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	3.9	38
44	Stream Nitrate Responds Rapidly to Decreasing Nitrate Deposition. <i>Ecosystems</i> , 2011 , 14, 274-286	3.9	37
43	Meta-analysis of environmental effects of beaver in relation to artificial dams. <i>Environmental Research Letters</i> , 2017 , 12, 113002	6.2	34
42	Carbon dioxide and methane emissions of Swedish low-order streams—national estimate and lessons learnt from more than a decade of observations. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 156-167	7.9	34
41	The interplay between total mercury, methylmercury and dissolved organic matter in fluvial systems: A latitudinal study across Europe. <i>Water Research</i> , 2018 , 144, 172-182	12.5	34
40	Preferential sequestration of terrestrial organic matter in boreal lake sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 863-874	3.7	31
39	Nitrous oxide emissions from streams in a Swedish agricultural catchment. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 236, 295-303	5.7	29
38	Selective removal of dissolved organic matter affects the production and speciation of disinfection byproducts. <i>Science of the Total Environment</i> , 2019 , 652, 75-84	10.2	24
37	Greenhouse gas emissions from urban ponds are driven by nutrient status and hydrology. <i>Ecosphere</i> , 2019 , 10, e02643	3.1	23
36	Denitrification in restored and unrestored Danish streams. <i>Ecological Engineering</i> , 2014 , 66, 129-140	3.9	23
35	Effects of stream flooding on the distribution and diversity of groundwater-dependent vegetation in riparian areas. <i>Freshwater Biology</i> , 2013 , 58, 817-827	3.1	23
34	Efficiency of mitigation measures targeting nutrient losses from agricultural drainage systems: A review. <i>Ambio</i> , 2020 , 49, 1820-1837	6.5	20
33	Nitrate removal capacity and nitrous oxide production in soil profiles of nitrogen loaded riparian wetlands inferred by laboratory microcosms. <i>Soil Biology and Biochemistry</i> , 2013 , 60, 156-164	7.5	20
32	Nitrogen and phosphorus retention in Danish restored wetlands. <i>Ambio</i> , 2020 , 49, 324-336	6.5	20
31	Heat-wave effects on greenhouse gas emissions from shallow lake mesocosms. <i>Freshwater Biology</i> , 2017 , 62, 1130-1142	3.1	19
30	Mitigation of greenhouse gas emissions from reed canary grass in paludiculture: effect of groundwater level. <i>Plant and Soil</i> , 2014 , 383, 217-230	4.2	17

29	Methane emissions in Danish riparian wetlands: Ecosystem comparison and pursuit of vegetation indexes as predictive tools. <i>Ecological Indicators</i> , 2013 , 34, 548-559	5.8	17
28	Sulphate in freshwater ecosystems: A review of sources, biogeochemical cycles, ecotoxicological effects and bioremediation. <i>Earth-Science Reviews</i> , 2021 , 212, 103446	10.2	17
27	Modelling sediment and total phosphorus export from a lowland catchment: comparing sediment routing methods. <i>Hydrological Processes</i> , 2015 , 29, 280-294	3.3	16
26	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	5.5	16
25	How humans alter dissolved organic matter composition in freshwater: relevance for the Earth's biogeochemistry. <i>Biogeochemistry</i> , 2021 , 154, 323-348	3.8	16
24	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. <i>Journal of Environmental Quality</i> , 2019 , 48, 362-375	3.4	14
23	Environmental controls of plant species richness in riparian wetlands: Implications for restoration. <i>Basic and Applied Ecology</i> , 2015 , 16, 480-489	3.2	14
22	Forest streams are important sources for nitrous oxide emissions. <i>Global Change Biology</i> , 2020 , 26, 629-644	6.1	13
21	Rainstorm events shift the molecular composition and export of dissolved organic matter in a large drinking water reservoir in China: High frequency buoys and field observations. <i>Water Research</i> , 2020 , 187, 116471	12.5	11
20	An overview of nutrient transport mitigation measures for improvement of water quality in Denmark. <i>Ecological Engineering</i> , 2020 , 155, 105863	3.9	10
19	Carbon dioxide dynamics in an agricultural headwater stream driven by hydrology and primary production. <i>Biogeosciences</i> , 2020 , 17, 2487-2498	4.6	9
18	Global importance of methane emissions from drainage ditches and canals. <i>Environmental Research Letters</i> , 2021 , 16, 044010	6.2	9
17	Groundwater nitrogen and the distribution of groundwater-dependent vegetation in riparian areas in agricultural catchments. <i>Ecological Engineering</i> , 2014 , 66, 111-119	3.9	8
16	Small artificial waterbodies are widespread and persistent emitters of methane and carbon dioxide. <i>Global Change Biology</i> , 2021 , 27, 5109-5123	11.4	8
15	Organic Matter Degradation across Ecosystem Boundaries: The Need for a Unified Conceptualization. <i>Trends in Ecology and Evolution</i> , 2021 , 36, 113-122	10.9	8
14	Stream characteristics and their implications for the protection of riparian fens and meadows. <i>Freshwater Biology</i> , 2011 , 56, 1893-1903	3.1	7
13	Greenhouse gas emissions from urban ponds in Denmark. <i>Inland Waters</i> , 2020 , 10, 373-385	2.4	5
12	Low nitrogen and phosphorus release from sediment deposited on a Danish restored floodplain. <i>Annales De Limnologie</i> , 2011 , 47, 231-238	0.7	5

11	Nutrient Loading, Temperature and Heat Wave Effects on Nutrients, Oxygen and Metabolism in Shallow Lake Mesocosms Pre-Adapted for 11 Years. <i>Water (Switzerland)</i> , 2021 , 13, 127	3	4
10	Microbiome Structure and Function in Woodchip Bioreactors for Nitrate Removal in Agricultural Drainage Water. <i>Frontiers in Microbiology</i> , 2021 , 12, 678448	5.7	4
9	Rice-paddy field acts as a buffer system to decrease the terrestrial characteristics of dissolved organic matter exported from a typical small agricultural watershed in the Three Gorges Reservoir Area, China. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 23873-23885	5.1	3
8	Cleaning and sampling protocol for analysis of mercury and dissolved organic matter in freshwater systems. <i>MethodsX</i> , 2018 , 5, 1017-1026	1.9	3
7	Feedbacks between climate change and eutrophication: revisiting the allied attack concept and how to strike back. <i>Inland Waters</i> , 1-42	2.4	2
6	Influence of plant habitats on denitrification in lowland agricultural streams. <i>Journal of Environmental Management</i> , 2021 , 286, 112193	7.9	2
5	Nitrogen removal and greenhouse gas fluxes from integrated buffer zones treating agricultural drainage water. <i>Science of the Total Environment</i> , 2021 , 774, 145070	10.2	2
4	How hydrology and anthropogenic activity influence the molecular composition and export of dissolved organic matter: Observations along a large river continuum. <i>Limnology and Oceanography</i> , 2021 , 66, 1730-1742	4.8	2
3	Nitrogen removal and nitrous oxide emissions from woodchip bioreactors treating agricultural drainage waters. <i>Ecological Engineering</i> , 2021 , 169, 106328	3.9	2
2	Comparison of sampling methodologies for nutrient monitoring in streams: uncertainties, costs and implications for mitigation		1
1	Warming and eutrophication interactively drive changes in the methane-oxidizing community of shallow lakes. <i>ISME Communications</i> , 2021 , 1,		1