

Martin Berggren

List of Publications by Year in descending order

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46
papers

3,037
citations

257101

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docs citations

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times ranked

3627
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterns and Dynamics of Dissolved Organic Carbon (DOC) in Boreal Streams: The Role of Processes, Connectivity, and Scaling. <i>Ecosystems</i> , 2011, 14, 880-893.	1.6	340
2	Whatâ€™s in an EEM? Molecular Signatures Associated with Dissolved Organic Fluorescence in Boreal Canada. <i>Environmental Science & Technology</i> , 2014, 48, 10598-10606.	4.6	292
3	Increases in terrestrially derived carbon stimulate organic carbon processing and CO ₂ emissions in boreal aquatic ecosystems. <i>Nature Communications</i> , 2013, 4, 2972.	5.8	241
4	Global changeâ€driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. <i>Global Change Biology</i> , 2018, 24, 3692-3714.	4.2	229
5	Efficient aquatic bacterial metabolism of dissolved low-molecular-weight compounds from terrestrial sources. <i>ISME Journal</i> , 2010, 4, 408-416.	4.4	166
6	Magnitude and regulation of bacterioplankton respiratory quotient across freshwater environmental gradients. <i>ISME Journal</i> , 2012, 6, 984-993.	4.4	149
7	Lake secondary production fueled by rapid transfer of low molecular weight organic carbon from terrestrial sources to aquatic consumers. <i>Ecology Letters</i> , 2010, 13, 870-880.	3.0	134
8	Terrestrial organic matter support of lake food webs: Evidence from lake metabolism and stable hydrogen isotopes of consumers. <i>Limnology and Oceanography</i> , 2012, 57, 1042-1048.	1.6	134
9	Landscape regulation of bacterial growth efficiency in boreal freshwaters. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	127
10	Dissolved organic carbon characteristics in boreal streams in a forestâ€wetland gradient during the transition between winter and summer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	125
11	Patchy field sampling biases understanding of climate change impacts across the Arctic. <i>Nature Ecology and Evolution</i> , 2018, 2, 1443-1448.	3.4	112
12	Distinct patterns of microbial metabolism associated to riverine dissolved organic carbon of different source and quality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 989-999.	1.3	92
13	Terrestrial support of lake food webs: Synthesis reveals controls over cross-ecosystem resource use. <i>Science Advances</i> , 2017, 3, e1601765.	4.7	92
14	Terrestrial export of highly bioavailable carbon from small boreal catchments in spring floods. <i>Freshwater Biology</i> , 2008, 53, 964-972.	1.2	74
15	Aging of allochthonous organic carbon regulates bacterial production in unproductive boreal lakes. <i>Limnology and Oceanography</i> , 2009, 54, 1333-1342.	1.6	70
16	Hydrological Control of Organic Carbon Support for Bacterial Growth in Boreal Headwater Streams. <i>Microbial Ecology</i> , 2009, 57, 170-178.	1.4	68
17	Contrasting patterns of allochthony among three major groups of crustacean zooplankton in boreal and temperate lakes. <i>Ecology</i> , 2014, 95, 1947-1959.	1.5	67
18	Nutrient Constraints on Metabolism Affect the Temperature Regulation of Aquatic Bacterial Growth Efficiency. <i>Microbial Ecology</i> , 2010, 60, 894-902.	1.4	55

#	ARTICLE	IF	CITATIONS
19	Degradation potentials of dissolved organic carbon (DOC) from thawed permafrost peat. <i>Scientific Reports</i> , 2017, 7, 45811.	1.6	47
20	Intraspecific Autochthonous and Allochthonous Resource Use by Zooplankton in a Humic Lake during the Transitions between Winter, Summer and Fall. <i>PLoS ONE</i> , 2015, 10, e0120575.	1.1	42
21	New insights on resource stoichiometry: assessing availability of carbon, nitrogen, and phosphorus to bacterioplankton. <i>Biogeosciences</i> , 2017, 14, 1527-1539.	1.3	39
22	Bioavailable phosphorus in humic headwater streams in boreal Sweden. <i>Limnology and Oceanography</i> , 2012, 57, 1161-1170.	1.6	31
23	Toward an ecologically meaningful view of resource stoichiometry in DOM-dominated aquatic systems. <i>Journal of Plankton Research</i> , 2015, 37, 489-499.	0.8	30
24	Quality transformation of dissolved organic carbon during water transit through lakes: contrasting controls by photochemical and biological processes. <i>Biogeosciences</i> , 2018, 15, 457-470.	1.3	26
25	Impact of photochemical processing of DOC on the bacterioplankton respiratory quotient in aquatic ecosystems. <i>Geophysical Research Letters</i> , 2016, 43, 7538-7545.	1.5	23
26	Controls on Dissolved Organic Carbon Bioreactivity in River Systems. <i>Scientific Reports</i> , 2019, 9, 14897.	1.6	22
27	Large-Scale Retrieval of Coloured Dissolved Organic Matter in Northern Lakes Using Sentinel-2 Data. <i>Remote Sensing</i> , 2020, 12, 157.	1.8	22
28	The role of the understory in litter DOC and nutrient leaching in boreal forests. <i>Biogeochemistry</i> , 2020, 149, 87-103.	1.7	21
29	Influence of soil frost on the character and degradability of dissolved organic carbon in boreal forest soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 829-840.	1.3	20
30	Unified understanding of intrinsic and extrinsic controls of dissolved organic carbon reactivity in aquatic ecosystems. <i>Ecology</i> , 2022, 103, .	1.5	18
31	Decreasing organic carbon bioreactivity in European rivers. <i>Freshwater Biology</i> , 2020, 65, 1128-1138.	1.2	17
32	Bacterioplankton Responses to Increased Organic Carbon and Nutrient Loading in a Boreal Estuary—Separate and Interactive Effects on Growth and Respiration. <i>Microbial Ecology</i> , 2018, 76, 144-155.	1.4	14
33	Photo-reactivity of dissolved organic carbon in the freshwater continuum. <i>Aquatic Sciences</i> , 2019, 81, 1.	0.6	14
34	Contrasting dynamics and environmental controls of dispersed bacteria along a hydrologic gradient. <i>Advances in Oceanography and Limnology</i> , 2017, 8, .	0.2	13
35	Systematic microbial production of optically active dissolved organic matter in subarctic lake water. <i>Limnology and Oceanography</i> , 2020, 65, 951-961.	1.6	11
36	Impacts of litter decay on organic leachate composition and reactivity. <i>Biogeochemistry</i> , 2021, 154, 99-117.	1.7	10

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37	Response of the peatland carbon dioxide sink function to future climate change scenarios and water level management. <i>Global Change Biology</i> , 2021, 27, 5154-5168.	4.2	10
38	Dissolved organic carbon in streams within a subarctic catchment analysed using a GIS/remote sensing approach. <i>PLoS ONE</i> , 2018, 13, e0199608.	1.1	8
39	Indirect link between riverine dissolved organic matter and bacterioplankton respiration in a boreal estuary. <i>Marine Environmental Research</i> , 2019, 148, 39-45.	1.1	7
40	Terrestrial support of zooplankton biomass in northern rivers. <i>Limnology and Oceanography</i> , 2018, 63, 2479-2492.	1.6	6
41	The undetected loss of aged carbon from boreal mineral soils. <i>Scientific Reports</i> , 2021, 11, 6202.	1.6	5
42	Seasonal patterns in nutrient bioavailability in boreal headwater streams. <i>Limnology and Oceanography</i> , 2022, 67, 1169-1183.	1.6	5
43	Response to Comment: Terrestrial support of pelagic consumers in unproductive lakes – Uncertainty and potential in assessments using stable isotopes. <i>Limnology and Oceanography</i> , 2014, 59, 1800-1803.	1.6	3
44	Bacterial utilization of imported organic material in three small nested humic lakes. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2010, 30, 1393-1396.	0.1	2
45	In situ plankton community respiration measurements show low respiratory quotients in a eutrophic lake. <i>Environmental Microbiology</i> , 2019, 21, 1425-1435.	1.8	2
46	Morphometric Control on Dissolved Organic Carbon in Subarctic Streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005348.	1.3	2