

# Dominic Vachon

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,400  
citations

430754

18  
h-index

610775

24  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrating carbon emission, accumulation and transport in inland waters to understand their role in the global carbon cycle. <i>Global Change Biology</i> , 2021, 27, 719-727.	4.2	26
2	Stratification strength and light climate explain variation in chlorophyll <i>a</i> at the continental scale in a European multilake survey in a heatwave summer. <i>Limnology and Oceanography</i> , 2021, 66, 4314-4333.	1.6	19
3	Autumn destabilization of deep porewater CO <sub>2</sub> store in a northern peatland driven by turbulent diffusion. <i>Nature Communications</i> , 2021, 12, 6857.	5.8	5
4	Challenges of predicting gas transfer velocity from wind measurements over global lakes. <i>Aquatic Sciences</i> , 2020, 82, 1.	0.6	34
5	Methane emission offsets carbon dioxide uptake in a small productive lake. <i>Limnology and Oceanography Letters</i> , 2020, 5, 384-392.	1.6	16
6	Paired O <sub>2</sub> and CO <sub>2</sub> measurements provide emergent insights into aquatic ecosystem function. <i>Limnology and Oceanography Letters</i> , 2020, 5, 287-294.	1.6	51
7	Patterns of Spring/Summer Open-Water Metabolism Across Boreal Lakes. <i>Ecosystems</i> , 2020, 23, 1581-1597.	1.6	18
8	Efficiency of crustacean zooplankton in transferring allochthonous carbon in a boreal lake. <i>Ecology</i> , 2020, 101, e03013.	1.5	17
9	What the bubble knows: Lake methane dynamics revealed by sediment gas bubble composition. <i>Limnology and Oceanography</i> , 2019, 64, 1526-1544.	1.6	47
10	Influence of water column stratification and mixing patterns on the fate of methane produced in deep sediments of a small eutrophic lake. <i>Limnology and Oceanography</i> , 2019, 64, 2114-2128.	1.6	48
11	The phantom midge menace: Migratory <i>Chaoborus</i> larvae maintain poor ecosystem state in eutrophic inland waters. <i>Water Research</i> , 2018, 139, 30-37.	5.3	4
12	Greenhouse Gas Emissions from Freshwater Reservoirs: What Does the Atmosphere See?. <i>Ecosystems</i> , 2018, 21, 1058-1071.	1.6	145
13	High spatial variability of gas transfer velocity in streams revealed by turbulence measurements. <i>Inland Waters</i> , 2018, 8, 461-473.	1.1	19
14	Using oxygen stable isotopes to quantify ecosystem metabolism in northern lakes. <i>Biogeochemistry</i> , 2017, 133, 347-364.	1.7	26
15	Modeling Allochthonous Dissolved Organic Carbon Mineralization Under Variable Hydrologic Regimes in Boreal Lakes. <i>Ecosystems</i> , 2017, 20, 781-795.	1.6	60
16	Reconstructing the seasonal dynamics and relative contribution of the major processes sustaining CO <sub>2</sub> emissions in northern lakes. <i>Limnology and Oceanography</i> , 2017, 62, 706-722.	1.6	44
17	Full-scale evaluation of methane production under oxic conditions in a mesotrophic lake. <i>Nature Communications</i> , 2017, 8, 1661.	5.8	103
18	Seasonality of photochemical dissolved organic carbon mineralization and its relative contribution to pelagic CO <sub>2</sub> production in northern lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 864-878.	1.3	50

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19	The Relative Contribution of Winter Under-Ice and Summer Hypolimnetic CO <sub>2</sub> Accumulation to the Annual CO <sub>2</sub> Emissions from Northern Lakes. <i>Ecosystems</i> , 2015, 18, 547-559.	1.6	61
20	Whole-Lake CO <sub>2</sub> Dynamics in Response to Storm Events in Two Morphologically Different Lakes. <i>Ecosystems</i> , 2014, 17, 1338-1353.	1.6	70
21	Regional contribution of CO <sub>2</sub> and CH <sub>4</sub> fluxes from the fluvial network in a lowland boreal landscape of Qu�bec. <i>Global Biogeochemical Cycles</i> , 2014, 28, 57-69.	1.9	90
22	The ecosystem size and shape dependence of gas transfer velocity versus wind speed relationships in lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1757-1764.	0.7	151
23	Ecosystem Effects of a Tropical Cyclone on a Network of Lakes in Northeastern North America. <i>Environmental Science &amp; Technology</i> , 2012, 46, 11693-11701.	4.6	93
24	The relationship between near�surface turbulence and gas transfer velocity in freshwater systems and its implications for floating chamber measurements of gas exchange. <i>Limnology and Oceanography</i> , 2010, 55, 1723-1732.	1.6	203