

# Marcus B Wallin

## 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.

50  
papers

1,596  
citations

25  
h-index

39  
g-index

61  
ext. papers

1,954  
ext. citations

6.3  
avg, IF

4.72  
L-index

#	Paper	IF	Citations
50	Evasion of CO <sub>2</sub> from streams - the dominant component of the carbon export through the aquatic conduit in a boreal landscape. <i>Global Change Biology</i> , <b>2013</b> , 19, 785-97	11.4	144
49	Significant fraction of CO <sub>2</sub> emissions from boreal lakes derived from hydrologic inorganic carbon inputs. <i>Nature Geoscience</i> , <b>2015</b> , 8, 933-936	18.3	126
48	Dissolved inorganic carbon export across the soil/stream interface and its fate in a boreal headwater stream. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7364-9	10.3	118
47	Using multi-tracer inference to move beyond single-catchment ecohydrology. <i>Earth-Science Reviews</i> , <b>2016</b> , 160, 19-42	10.2	105
46	Spatiotemporal variability of the gas transfer coefficient (K <sub>CO2</sub> ) in boreal streams: Implications for large scale estimates of CO <sub>2</sub> evasion. <i>Global Biogeochemical Cycles</i> , <b>2011</b> , 25, n/a-n/a	5.9	95
45	Temporal and spatial variability of dissolved inorganic carbon in a boreal stream network: Concentrations and downstream fluxes. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		81
44	Direct and continuous measurement of dissolved carbon dioxide in freshwater aquatic systems—method and applications. <i>Ecohydrology</i> , <b>2009</b> , 3, n/a-n/a	2.5	64
43	Multiple sources and sinks of dissolved inorganic carbon across Swedish streams, refocusing the lens of stable C isotopes. <i>Scientific Reports</i> , <b>2017</b> , 7, 9158	4.9	54
42	The Full Annual Carbon Balance of Boreal Forests Is Highly Sensitive to Precipitation. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 315-319	11	53
41	Carbon dioxide transport across the hillslope-riparian-stream continuum in a boreal headwater catchment. <i>Biogeosciences</i> , <b>2015</b> , 12, 1881-1892	4.6	44
40	Contrasting CO <sub>2</sub> concentration discharge dynamics in headwater streams: A multi-catchment comparison. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 445-461	3.7	43
39	Representative regional sampling of carbon dioxide and methane concentrations in hemiboreal headwater streams reveal underestimates in less systematic approaches. <i>Global Biogeochemical Cycles</i> , <b>2014</b> , 28, 465-479	5.9	41
38	Carbon dioxide evasion from headwater systems strongly contributes to the total export of carbon from a small boreal lake catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 13-28	3.7	40
37	Spatio-temporal patterns of stream methane and carbon dioxide emissions in a hemiboreal catchment in Southwest Sweden. <i>Scientific Reports</i> , <b>2017</b> , 7, 39729	4.9	39
36	Twelve-year interannual and seasonal variability of stream carbon export from a boreal peatland catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 1851-1866	3.7	39
35	The role of sediments in the carbon budget of a small boreal lake. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1814-1825	4.8	35
34	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> , <b>2018</b> , 3, 156-167	7.9	34

33	Stable Carbon Isotopes Reveal Soil-Stream DIC Linkages in Contrasting Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 149-167	3.7	33
32	Decoupling of carbon dioxide and dissolved organic carbon in boreal headwater streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 2630-2651	3.7	33
31	Large carbon dioxide fluxes from headwater boreal and sub-boreal streams. <i>PLoS ONE</i> , <b>2014</b> , 9, e101756	3.7	33
30	Nitrous oxide emissions from streams in a Swedish agricultural catchment. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 236, 295-303	5.7	29
29	Current forest carbon fixation fuels stream CO emissions. <i>Nature Communications</i> , <b>2019</b> , 10, 1876	17.4	29
28	Evaluating a fast headspace method for measuring DIC and subsequent calculation of pCO <sub>2</sub> in freshwater systems. <i>Inland Waters</i> , <b>2014</b> , 4, 157-166	2.4	28
27	High terrestrial carbon load via groundwater to a boreal lake dominated by surface water inflow. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 15-29	3.7	27
26	Aquatic export of young dissolved and gaseous carbon from a pristine boreal fen: Implications for peat carbon stock stability. <i>Global Change Biology</i> , <b>2017</b> , 23, 5523-5536	11.4	25
25	Regional diversity of complex dissolved organic matter across forested hemiboreal headwater streams. <i>Scientific Reports</i> , <b>2018</b> , 8, 16060	4.9	24
24	Greenhouse gas emissions from urban ponds are driven by nutrient status and hydrology. <i>Ecosphere</i> , <b>2019</b> , 10, e02643	3.1	23
23	Temporal control on concentration, character, and export of dissolved organic carbon in two hemiboreal headwater streams draining contrasting catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 832-846	3.7	23
22	No long-term trends in pCO <sub>2</sub> despite increasing organic carbon concentrations in boreal lakes, streams, and rivers. <i>Global Biogeochemical Cycles</i> , <b>2017</b> , 31, 985-995	5.9	18
21	Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. <i>Nature Geoscience</i> , <b>2021</b> , 14, 289-294	18.3	18
20	High spatial variability of gas transfer velocity in streams revealed by turbulence measurements. <i>Inland Waters</i> , <b>2018</b> , 8, 461-473	2.4	14
19	Forest streams are important sources for nitrous oxide emissions. <i>Global Change Biology</i> , <b>2020</b> , 26, 629-644	6.1	13
18	Using land-based stations for air-sea interaction studies. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , <b>2020</b> , 72, 1-23	2	12
17	Colored organic matter increases CO <sub>2</sub> in meso-eutrophic lake water through altered light climate and acidity. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 744-756	4.8	11
16	Carbon dioxide dynamics in an agricultural headwater stream driven by hydrology and primary production. <i>Biogeosciences</i> , <b>2020</b> , 17, 2487-2498	4.6	9

15	Spectral Decomposition Reveals New Perspectives on CO <sub>2</sub> Concentration Patterns and Soil-Stream Linkages. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 3039-3056	3.7	8
14	Synchronous evaporation and aquatic primary production in tropical river networks. <i>Water Research</i> , <b>2021</b> , 200, 117272	12.5	7
13	Evaluating Humidity and Sea Salt Disturbances on CO <sub>2</sub> Flux Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2018</b> , 35, 859-875	2	6
12	Measurement of Air-Sea Methane Fluxes in the Baltic Sea Using the Eddy Covariance Method. <i>Frontiers in Earth Science</i> , <b>2019</b> , 7,	3.5	4
11	Diverse drivers of long-term pCO <sub>2</sub> increases across thirteen boreal lakes and streams. <i>Inland Waters</i> , <b>2020</b> , 10, 360-372	2.4	3
10	Groundwater Carbon Within a Boreal Catchment: Spatiotemporal Variability of a Hidden Aquatic Carbon Pool. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005244	3.7	2
9	Disaster management cooperation in central america: the case of rainfall-induced natural disasters. <i>Geografiska Annaler, Series A: Physical Geography</i> , <b>2015</b> , 97, 85-96	1.1	2
8	Carbon dioxide transport across the hillslope-terrestrial stream continuum in a boreal headwater catchment		2
7	Variable Physical Drivers of Near-Surface Turbulence in a Regulated River. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR027939	5.4	1
6	Brownification on hold: What traditional analyses miss in extended surface water records. <i>Water Research</i> , <b>2021</b> , 203, 117544	12.5	1
5	Significant Emissions From Forest Drainage Ditches: An Unaccounted Term in Anthropogenic Greenhouse Gas Inventories?. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2021</b> , 126, e2021JG006478	2.7	1
4	Critical Observations of Gaseous Elemental Mercury Air-Sea Exchange. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006742	5.9	0
3	Air-Sea CO <sub>2</sub> exchange in the Baltic Sea: A sensitivity analysis of the gas transfer velocity. <i>Journal of Marine Systems</i> , <b>2021</b> , 222, 103603	2.7	0
2	Remote Sensing Supported Sea Surface pCO <sub>2</sub> Estimation and Variable Analysis in the Baltic Sea. <i>Remote Sensing</i> , <b>2021</b> , 13, 259	5	0
1	Autumn destabilization of deep porewater CO store in a northern peatland driven by turbulent diffusion. <i>Nature Communications</i> , <b>2021</b> , 12, 6857	17.4	