

Plumbing the Global Carbon Cycle: Integrating Inland Waters into the Global Carbon Budget

Ecosystems

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Source- and substrate-specific export of dissolved organic matter from permafrost-dominated forested watershed in central Siberia. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	42
2	An empirical study of climatic controls on riverine C export from three major U.S. watersheds. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	4.9	68
3	Carbon and oxygen dynamics of shallow aquatic systems: Process vectors and bacterial productivity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
4	Storm pulses of dissolved CO ₂ in a forested headwater Amazonian stream explored using hydrograph separation. <i>Water Resources Research</i> , 2007, 43, .	4.2	39
5	Dissolved Organic Carbon in Alaskan Boreal Forest: Sources, Chemical Characteristics, and Biodegradability. <i>Ecosystems</i> , 2007, 10, 1323-1340.	3.4	293
6	Influence of net ecosystem metabolism in transferring riverine organic carbon to atmospheric CO ₂ in a tropical coastal lagoon (Chilka Lake, India). <i>Biogeochemistry</i> , 2008, 87, 265-285.	3.5	120
7	Greenhouse gas fluxes from the eutrophic Temmesjoki River and its Estuary in the Liminganlahti Bay (the Baltic Sea). <i>Biogeochemistry</i> , 2008, 90, 193-208.	3.5	76
8	Controls of organic and inorganic carbon in randomly selected Boreal lakes in varied catchments. <i>Biogeochemistry</i> , 2008, 91, 151-162.	3.5	39
9	Airborne carbon deposition on a remote forested lake. <i>Aquatic Sciences</i> , 2008, 70, 213-224.	1.5	24
10	Links between Terrestrial Primary Production and Bacterial Production and Respiration in Lakes in a Climate Gradient in Subarctic Sweden. <i>Ecosystems</i> , 2008, 11, 367-376.	3.4	87
11	Sedimentation in Boreal Lakes—The Role of Flocculation of Allochthonous Dissolved Organic Matter in the Water Column. <i>Ecosystems</i> , 2008, 11, 803-814.	3.4	174
12	Harvest of the century. <i>Nature</i> , 2008, 451, 405-406.	27.8	8
13	Terrestrial export of highly bioavailable carbon from small boreal catchments in spring floods. <i>Freshwater Biology</i> , 2008, 53, 964-972.	2.4	74
14	Temperature dependence of stream benthic respiration in an Alpine river network under global warming. <i>Freshwater Biology</i> , 2008, 53, 2076-2088.	2.4	111
15	Biophysical controls on organic carbon fluxes in fluvial networks. <i>Nature Geoscience</i> , 2008, 1, 95-100.	12.9	1,102
16	Not drowning but photosynthesizing: probing plant plastrons. <i>New Phytologist</i> , 2008, 177, 841-845.	7.3	14
17	High rates of net primary production and turnover of floating grasses on the Amazon floodplain: implications for aquatic respiration and regional CO ₂ flux. <i>Global Change Biology</i> , 2008, 14, 369-381.	9.5	49
18	Spatial heterogeneity of the spring flood acid pulse in a boreal stream network†. <i>Science of the Total Environment</i> , 2008, 407, 708-722.	8.0	48

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19	Dissolved Organic Matter in the Great Lakes: Role and Nature of Allochthonous Material. Journal of Great Lakes Research, 2008, 34, 383-394.	1.9	23
20	Carbon and oxygen fluxes from a small pond to the atmosphere: Temporal variability and the CO ₂ /O ₂ imbalance. Water Resources Research, 2008, 44, .	4.2	37
21	Global N removal by freshwater aquatic systems using a spatially distributed, within-basin approach. Global Biogeochemical Cycles, 2008, 22, .	4.9	152
22	Release of biodegradable dissolved organic matter from ancient sedimentary rocks. Global Biogeochemical Cycles, 2008, 22, .	4.9	35
23	CO ₂ emissions from saline lakes: A global estimate of a surprisingly large flux. Journal of Geophysical Research, 2008, 113, .	3.3	137
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38	The significance of organic carbon and nutrient export from peatland-dominated landscapes subject to disturbance, a stoichiometric perspective. <i>Biogeosciences</i> , 2009, 6, 363-374.	3.3	26
39	Long-term changes in climate, streamflow, and nutrient budgets for first-order catchments at the Experimental Lakes Area (Ontario, Canada) This paper is part of the series "Forty Years of Aquatic Research at the Experimental Lakes Area". <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 1848-1863.	1.4	41
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41	Large-river delta-front estuaries as natural "recorders" of global environmental change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8085-8092.	7.1	474
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51	Northern Delta Lakes as Summertime CO ₂ Absorbers Within the Arctic Landscape. <i>Ecosystems</i> , 2009, 12, 144-157.	3.4	65
52	CO ₂ Supersaturation and Net Heterotrophy in a Tropical Estuary (Cochin, India): Influence of Anthropogenic Effect. <i>Ecosystems</i> , 2009, 12, 1145-1157.	3.4	112
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131	Managing Soils and Ecosystems for Mitigating Anthropogenic Carbon Emissions and Advancing Global Food Security. <i>BioScience</i> , 2010, 60, 708-721.	4.9	384
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154	The <i>p</i> CO ₂ in boreal lakes: Organic carbon as a universal predictor?. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	61
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332	Selective decay of terrestrial organic carbon during transport from land to sea. <i>Global Change Biology</i> , 2012, 18, 349-355.	9.5	120
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478	Revisiting Odum (1956): A synthesis of aquatic ecosystem metabolism. <i>Limnology and Oceanography</i> , 2013, 58, 2089-2100.	3.1	156
479	Eddy correlation measurements of oxygen fluxes in permeable sediments exposed to varying current flow and light. <i>Limnology and Oceanography</i> , 2013, 58, 1329-1343.	3.1	90
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1128	Investigating extracellular polymeric substances from microbial mat upon exposure to sunlight. <i>Polymer Degradation and Stability</i> , 2017, 146, 192-200.	5.8	9
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1131	Patterns in stream greenhouse gas dynamics from mountains to plains in northcentral Wyoming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2173-2190.	3.0	13
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1260	Balancing macronutrient stoichiometry to alleviate eutrophication. <i>Science of the Total Environment</i> , 2018, 634, 439-447.	8.0	72
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1263	Methane Feedbacks to the Global Climate System in a Warmer World. <i>Reviews of Geophysics</i> , 2018, 56, 207-250.	23.0	354
1264	Methane production increases with warming and carbon additions to incubated sediments from a semiarid reservoir. <i>Inland Waters</i> , 2018, 8, 109-121.	2.2	13
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1268	Dry habitats sustain high CO ₂ emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018, 8, 3015.	3.3	35
1269	Changes in submerged aquatic vegetation (SAV) coverage caused by extended drought and flood pulses. <i>Lake and Reservoir Management</i> , 2018, 34, 199-210.	1.3	5
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1273	Size, age, renewal, and discharge of groundwater carbon. <i>Inland Waters</i> , 2018, 8, 122-127.	2.2	10
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1292	Metalimnetic oxygen minima alter the vertical profiles of carbon dioxide and methane in a managed freshwater reservoir. <i>Science of the Total Environment</i> , 2018, 636, 610-620.	8.0	25
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1357	Carbon and Nitrogen Pools in Deep Soil Horizons at Different Landscape Positions. <i>Soil Science Society of America Journal</i> , 2018, 82, 1512-1525.	2.2	12
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1371	Reviews and syntheses: Carbon use efficiency from organisms to ecosystems â€“ definitions, theories, and empirical evidence. <i>Biogeosciences</i> , 2018, 15, 5929-5949.	3.3	98
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1377	Reconstructing Terrestrial Paleoenvironments Using Sedimentary Organic Biomarkers. <i>Vertebrate Paleobiology and Paleoanthropology</i> , 2018, , 121-149.	0.5	3
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1393	High riverine CO ₂ emissions at the permafrost boundary of Western Siberia. <i>Nature Geoscience</i> , 2018, 11, 825-829.	12.9	64
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1395	River network saturation concept: factors influencing the balance of biogeochemical supply and demand of river networks. <i>Biogeochemistry</i> , 2018, 141, 503-521.	3.5	96
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1927	Effects of Using High Resolution Satellite-Based Inundation Time Series to Estimate Methane Fluxes From Forested Wetlands. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092556.	4.0	20
1928	Emerging dominance of summer rainfall driving High Arctic terrestrial-aquatic connectivity. <i>Nature Communications</i> , 2021, 12, 1448.	12.8	37
1929	Influence of Hydraulic Connectivity on Carbon Burial Efficiency in Mackenzie Delta Lake Sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006054.	3.0	2
1930	Late summer peak in <i>p</i> CO ₂ corresponds with catchment export of DOC in a temperate, humic lake. <i>Inland Waters</i> , 2021, 11, 234-249.	2.2	4
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1936	High-resolution satellite-derived river network map reveals small Arctic river hydrography. <i>Environmental Research Letters</i> , 2021, 16, 054015.	5.2	5
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1940	Hotspots of Diffusive CO ₂ and CH ₄ Emission From Tropical Reservoirs Shift Through Time. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006014.	3.0	14
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1950	Colloidal catchment response to snowmelt and precipitation events differs in a forested headwater catchment. <i>Vadose Zone Journal</i> , 2021, 20, e20126.	2.2	4
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1953	Particulate Organic Carbon in the Tropical Usumacinta River, Southeast Mexico: Concentration, Flux, and Sources. <i>Water (Switzerland)</i> , 2021, 13, 1561.	2.7	4
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1955	Alkalinity of diverse water samples can be altered by mercury preservation and borosilicate vial storage. <i>Scientific Reports</i> , 2021, 11, 9961.	3.3	14
1956	Knowing your limits: evaluating aquatic metabolism in a subtropical treatment wetland. <i>Hydrobiologia</i> , 2021, 848, 3969-3986.	2.0	3
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1958	Highest rates of gross primary productivity maintained despite <sc>CO₂</sc> depletion in a temperate river network. <i>Limnology and Oceanography Letters</i> , 2021, 6, 200-206.	3.9	14
1959	Riverine Carbon Cycling Over the Past Century in the Mid-Atlantic Region of the United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005968.	3.0	16
1961	Localized Pollution Impacts on Greenhouse Gas Dynamics in Three Anthropogenically Modified Asian River Systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006124.	3.0	20
1962	The role of freshwater eutrophication in greenhouse gas emissions: A review. <i>Science of the Total Environment</i> , 2021, 768, 144582.	8.0	109
1963	Ebullition Controls on CH ₄ Emissions in an Urban, Eutrophic River: A Potential Time-Scale Bias in Determining the Aquatic CH ₄ Flux. <i>Environmental Science & Technology</i> , 2021, 55, 7287-7298.	10.0	20
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1967	Mercury Export From Freshwater to Estuary: Carbocentric Science Elucidates the Fate of a Toxic Compound in Aquatic Boreal Environments. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	4
1968	Bacterioplankton respond with similar transcriptional activity to allochthonous dissolved organic matter in coastal and offshore Lake Michigan. <i>Limnology and Oceanography</i> , 2021, 66, 3162-3175.	3.1	2
1969	Meta-classification of remote sensing reflectance to estimate trophic status of inland and nearshore waters. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 176, 109-126.	11.1	20
1970	Unaccounted CO ₂ leaks downstream of a large tropical hydroelectric reservoir. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
1971	The riverine bioreactor: An integrative perspective on biological decomposition of organic matter across riverine habitats. <i>Science of the Total Environment</i> , 2021, 772, 145494.	8.0	10
1972	Spatial heterogeneity in fatty acid abundance and composition across surface sediments of Lake Taihu, Eastern China: Implications for the use of lipids in evaluating carbon cycling and burial in lake systems. <i>Catena</i> , 2021, 201, 105225.	5.0	6
1973	The Changing Face of Winter: Lessons and Questions From the Laurentian Great Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006247.	3.0	35
1974	A more complete accounting of greenhouse gas emissions and sequestration in urban landscapes. <i>Anthropocene</i> , 2021, 34, 100296.	3.3	10
1975	An In-Depth Analysis of Physical Blue and Green Water Scarcity in Agriculture in Terms of Causes and Events and Perceived Amenability to Economic Interpretation. <i>Water (Switzerland)</i> , 2021, 13, 1693.	2.7	21
1976	Yearâ€2020 Global Distribution and Pathways of Reservoir Methane and Carbon Dioxide Emissions According to the Greenhouse Gas From Reservoirs (Gâ€res) Model. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006888.	4.9	44
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1990	Global riverine nitrous oxide emissions: The role of small streams and large rivers. <i>Science of the Total Environment</i> , 2021, 776, 145148.	8.0	45
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1993	Organic carbon burial in a large, deep alpine lake (southwest China) in response to changes in climate, land use and nutrient supply over the past ~100 years. <i>Catena</i> , 2021, 202, 105240.	5.0	26
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1995	Integrating Aquatic Metabolism and Net Ecosystem CO ₂ Balance in Short- and Long-Hydroperiod Subtropical Freshwater Wetlands. <i>Ecosystems</i> , 2022, 25, 567-585.	3.4	4
1996	The role of lake morphometry in modulating surface water carbon concentrations in boreal lakes. <i>Environmental Research Letters</i> , 2021, 16, 074037.	5.2	10
1997	Introducing GloRiSe – a global database on river sediment composition. <i>Earth System Science Data</i> , 2021, 13, 3565-3575.	9.9	7
1998	An Assessment of In-situ Water Quality Parameters and its variation with Landsat 8 Level 1 Surface Reflectance datasets. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 6344-6366.	3.3	23
1999	Spatiotemporal variability of gas transfer velocity in a tropical high-elevation stream using two independent methods. <i>Ecosphere</i> , 2021, 12, e03647.	2.2	8
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2003	Hydrological and catchment controls on eventâ€scale dissolved organic carbon dynamics in boreal headwater streams. <i>Hydrological Processes</i> , 2021, 35, e14279.	2.6	14
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2005	Leveraging observed soil heterotrophic respiration fluxes as a novel constraint on globalâ€scale models. <i>Global Change Biology</i> , 2021, 27, 5392-5403.	9.5	10
2006	Carbon dioxide hydrodynamics along a wetland-lake-stream-waterfall continuum (Blue Mountains,) Tj ETQq1 1 0.784314 rgBJ /Overlock	8.0	7
2007	Spatial Patterns of Organic and Inorganic Carbon in Lake Qinghai Surficial Sediments and Carbon Burial Estimation. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	4
2009	Trophic and nonâ€trophic effects of fish and macroinvertebrates on carbon emissions. <i>Freshwater Biology</i> , 2021, 66, 1831-1845.	2.4	14
2010	Synchronous evaporation and aquatic primary production in tropical river networks. <i>Water Research</i> , 2021, 200, 117272.	11.3	25
2011	<scp>LÃ©XPLORE</scp>: A floating laboratory on Lake Geneva offering unique lake research opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1544.	6.5	20
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2014	Sediment and carbon accumulation in a glacial lake in Chukotka (Arctic Siberia) during the Late Pleistocene and Holocene: combining hydroacoustic profiling and down-core analyses. <i>Biogeosciences</i> , 2021, 18, 4791-4816.	3.3	6
2015	Carbon dynamics in small tropical catchments under preserved forest and cacao agroforestry systems. <i>Agroforestry Systems</i> , 2021, 95, 1647-1659.	2.0	0
2016	Integrating ecosystem metabolism and consumer allochthony reveals nonlinear drivers in lake organic matter processing. <i>Limnology and Oceanography</i> , 0, , .	3.1	3
2017	Contribution of the chemical weathering to the CO2 consumption in a microbasin of QuadrilÃ¡tero FerrÃ¡fero, Brazil. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	2
2018	Different storm responses of organic carbon transported to Lake Taihu by the eutrophic Tiaoxi River, China. <i>Science of the Total Environment</i> , 2021, 782, 146874.	8.0	7
2019	Inundation, Hydrodynamics and Vegetation Influence Carbon Dioxide Concentrations in Amazon Floodplain Lakes. <i>Ecosystems</i> , 2022, 25, 911-930.	3.4	9

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2021	An empirical model to predict methane production in inland water sediment from particular organic matter supply and reactivity. <i>Limnology and Oceanography</i> , 2021, 66, 3643-3655.	3.1	18
2022	An Initial Assessment of the Contribution of Fresh Submarine Ground Water Discharge to the Alkalinity Budget of the Mediterranean Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017085.	2.6	5
2023	Hydrologic heterogeneity induced variability of dissolved organic matter chemistry among tributaries of the Three Gorges Reservoir. <i>Water Research</i> , 2021, 201, 117358.	11.3	24
2024	Projected changes of regional lake hydrologic characteristics in response to 21st century climate change. <i>Inland Waters</i> , 2021, 11, 335-350.	2.2	4
2025	Increasing Autochthonous Production in Inland Waters as a Contributor to the Missing Carbon Sink. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
2026	Distinct concentration–discharge dynamics in temperate streams and rivers: CO_2 exhibits chemostasis while CH_4 exhibits source limitation due to temperature control. <i>Limnology and Oceanography</i> , 2021, 66, 3656-3668.	3.1	10
2027	Exploring the Drivers Controlling the Priming Effect and Its Magnitude in Aquatic Systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006201.	3.0	8
2028	Sources and sinks of greenhouse gases in the landscape: Approach for spatially explicit estimates. <i>Science of the Total Environment</i> , 2021, 781, 146668.	8.0	9
2029	Large spatiotemporal variability in metabolic regimes for an urban stream draining four wastewater treatment plants with implications for dissolved oxygen monitoring. <i>PLoS ONE</i> , 2021, 16, e0256292.	2.5	7
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