

# Peter A Raymond

## List of Publications by Year in descending order

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Version: 2024-02-01

155  
papers

23,994  
citations

10986

71  
h-index

7745

150  
g-index

171  
all docs

171  
docs citations

171  
times ranked

18642  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Global carbon dioxide emissions from inland waters. <i>Nature</i> , 2013, 503, 355-359.   | 27.8 | 1,670     |
| 2  | The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.  | 9.9  | 1,199     |
| 3  | The changing carbon cycle of the coastal ocean. <i>Nature</i> , 2013, 504, 61-70.   | 27.8 | 1,146     |
| 4  | Anthropogenic perturbation of the carbon fluxes from land to ocean. <i>Nature Geoscience</i> , 2013, 6, 597-607.  | 12.9 | 937       |
| 5  | Riverine coupling of biogeochemical cycles between land, oceans, and atmosphere. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 53-60.                                  | 4.0  | 927       |
| 6  | A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020, 586, 248-256.   | 27.8 | 814       |
| 7  | Significant efflux of carbon dioxide from streams and rivers in the United States. <i>Nature Geoscience</i> , 2011, 4, 839-842.   | 12.9 | 603       |
| 8  | Large contribution to inland water CO <sub>2</sub> and CH <sub>4</sub> emissions from very small ponds. <i>Nature Geoscience</i> , 2016, 9, 222-226.                                | 12.9 | 565       |
| 9  | Seasonal and Annual Fluxes of Nutrients and Organic Matter from Large Rivers to the Arctic Ocean and Surrounding Seas. <i>Estuaries and Coasts</i> , 2012, 35, 369-382.             | 2.2  | 528       |
| 10 | Riverine export of aged terrestrial organic matter to the North Atlantic Ocean. <i>Nature</i> , 2001, 409, 497-500.   | 27.8 | 523       |
| 11 | Managing uncertainty in soil carbon feedbacks to climate change. <i>Nature Climate Change</i> , 2016, 6, 751-758.   | 18.8 | 491       |
| 12 | Gas Exchange in Rivers and Estuaries: Choosing a Gas Transfer Velocity. <i>Estuaries and Coasts</i> , 2001, 24, 312.  | 1.7  | 479       |
| 13 | Anthropogenically enhanced fluxes of water and carbon from the Mississippi River. <i>Nature</i> , 2008, 451, 449-452.   | 27.8 | 476       |
| 14 | Scaling the gas transfer velocity and hydraulic geometry in streams and small rivers. <i>Limnology &amp; Oceanography Fluids &amp; Environments</i> , 2012, 2, 41-53.               | 1.7  | 444       |
| 15 | The impacts of climate change on ecosystem structure and function. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 474-482.   | 4.0  | 433       |
| 16 | Flux and age of dissolved organic carbon exported to the Arctic Ocean: A carbon isotopic study of the five largest arctic rivers. <i>Global Biogeochemical Cycles</i> , 2007, 21, . | 4.9  | 413       |
| 17 | Hydrological and biogeochemical controls on watershed dissolved organic matter transport: pulse–shunt concept. <i>Ecology</i> , 2016, 97, 5-16.                                     | 3.2  | 401       |
| 18 | Half of global methane emissions come from highly variable aquatic ecosystem sources. <i>Nature Geoscience</i> , 2021, 14, 225-230.   | 12.9 | 388       |

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|----|---|------|-----------|
| 19 | Use of <sup>14</sup> C and <sup>13</sup> C natural abundances for evaluating riverine, estuarine, and coastal DOC and POC sources and cycling: a review and synthesis. <i>Organic Geochemistry</i> , 2001, 32, 469-485. | 1.8  | 381       |
| 20 | Event controlled DOC export from forested watersheds. <i>Biogeochemistry</i> , 2010, 100, 197-209.  | 3.5  | 376       |
| 21 | Terrestrial carbon inputs to inland waters: A current synthesis of estimates and uncertainty. <i>Limnology and Oceanography Letters</i> , 2018, 3, 132-142.   | 3.9  | 368       |
| 22 | A decrease in discharge-normalized DOC export by the Yukon River during summer through autumn. <i>Geophysical Research Letters</i> , 2005, 32, .  | 4.0  | 334       |
| 23 | ZEBRA MUSSEL INVASION IN A LARGE, TURBID RIVER: PHYTOPLANKTON RESPONSE TO INCREASED GRAZING. <i>Ecology</i> , 1997, 78, 588-602.  | 3.2  | 322       |
| 24 | Increase in the Export of Alkalinity from North America's Largest River. <i>Science</i> , 2003, 301, 88-91.   | 12.6 | 310       |
| 25 | Organic carbon burial in global lakes and reservoirs. <i>Nature Communications</i> , 2017, 8, 1694.   | 12.8 | 307       |
| 26 | Lability of DOC transported by Alaskan rivers to the Arctic Ocean. <i>Geophysical Research Letters</i> , 2008, 35, .  | 4.0  | 290       |
| 27 | Environmental turbulent mixing controls on air-water gas exchange in marine and aquatic systems. <i>Geophysical Research Letters</i> , 2007, 34, .  | 4.0  | 253       |
| 28 | Atmospheric CO <sub>2</sub> evasion, dissolved inorganic carbon production, and net heterotrophy in the York River estuary. <i>Limnology and Oceanography</i> , 2000, 45, 1707-1717.                                    | 3.1  | 241       |
| 29 | Carbon Dioxide Concentration and Atmospheric Flux in the Hudson River. <i>Estuaries and Coasts</i> , 1997, 20, 381.   | 1.7  | 240       |
| 30 | Dissolved organic matter sources in large Arctic rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 94, 217-237.  | 3.9  | 207       |
| 31 | Flow-weighted values of runoff tracers ( <sup>18</sup> O, DOC, Ba, alkalinity) from the six largest Arctic rivers. <i>Geophysical Research Letters</i> , 2008, 35, .  | 4.0  | 206       |
| 32 | Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. <i>Nature Geoscience</i> , 2012, 5, 198-201.  | 12.9 | 199       |
| 33 | Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.  | 5.2  | 199       |
| 34 | Carbon export and cycling by the Yukon, Tanana, and Porcupine rivers, Alaska, 2001-2005. <i>Water Resources Research</i> , 2007, 43, .  | 4.2  | 197       |
| 35 | Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014, 11, 3547-3602.  | 3.3  | 189       |
| 36 | Source and biolability of ancient dissolved organic matter in glacier and lake ecosystems on the Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 64-74.  | 3.9  | 186       |

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|----|--|------|-----------|
| 37 | Bacterial consumption of DOC during transport through a temperate estuary. <i>Aquatic Microbial Ecology</i> , 2000, 22, 1-12.  | 1.8  | 181       |
| 38 | Controls on the variability of organic matter and dissolved inorganic carbon ages in northeast US rivers. <i>Marine Chemistry</i> , 2004, 92, 353-366.   | 2.3  | 180       |
| 39 | Animating the Carbon Cycle. <i>Ecosystems</i> , 2014, 17, 344-359.   | 3.4  | 168       |
| 40 | DOC cycling in a temperate estuary: A mass balance approach using natural $^{14}\text{C}$ and $^{13}\text{C}$ isotopes. <i>Limnology and Oceanography</i> , 2001, 46, 655-667.   | 3.1  | 164       |
| 41 | A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014, 11, 381-407.  | 3.3  | 162       |
| 42 | Increased mobilization of aged carbon to rivers by human disturbance. <i>Nature Geoscience</i> , 2015, 8, 112-116.   | 12.9 | 159       |
| 43 | Particulate organic carbon and nitrogen export from major Arctic rivers. <i>Global Biogeochemical Cycles</i> , 2016, 30, 629-643.  | 4.9  | 157       |
| 44 | The contribution of agricultural and urban activities to inorganic carbon fluxes within temperate watersheds. <i>Chemical Geology</i> , 2009, 266, 318-327.  | 3.3  | 143       |
| 45 | The impact of flooding on aquatic ecosystem services. <i>Biogeochemistry</i> , 2018, 141, 439-461.   | 3.5  | 142       |
| 46 | Variation in surface turbulence and the gas transfer velocity over a tidal cycle in a macro-tidal estuary. <i>Estuaries and Coasts</i> , 2003, 26, 1401-1415.  | 1.7  | 141       |
| 47 | Generality of Hydrologic Transport Limitation of Watershed Organic Carbon Flux Across Ecoregions of the United States. <i>Geophysical Research Letters</i> , 2018, 45, 11,702.   | 4.0  | 141       |
| 48 | Circumpolar synchrony in big river bacterioplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21208-21212.  | 7.1  | 136       |
| 49 | Twelve testable hypotheses on the geobiology of weathering. <i>Geobiology</i> , 2011, 9, 140-165.  | 2.4  | 133       |
| 50 | Inputs of Fossil Carbon from Wastewater Treatment Plants to U.S. Rivers and Oceans. <i>Environmental Science &amp; Technology</i> , 2009, 43, 5647-5651.   | 10.0 | 125       |
| 51 | Linkages among runoff, dissolved organic carbon, and the stable oxygen isotope composition of seawater and other water mass indicators in the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a. | 3.3  | 122       |
| 52 | A land-to-ocean perspective on the magnitude, source and implication of DIC flux from major Arctic rivers to the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2012, 26, .   | 4.9  | 121       |
| 53 | Rivers across the Siberian Arctic unearth the patterns of carbon release from thawing permafrost. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10280-10285.       | 7.1  | 118       |
| 54 | Millennial-aged organic carbon subsidies to a modern river food web. <i>Ecology</i> , 2010, 91, 2385-2393.   | 3.2  | 114       |

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|----|--|------|-----------|
| 55 | Dissolved organic matter export from a forested watershed during Hurricane Irene. <i>Geophysical Research Letters</i> , 2012, 39, .  | 4.0  | 110       |
| 56 | Contribution of agricultural liming to riverine bicarbonate export and CO <sub>2</sub> sequestration in the Ohio River basin. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.   | 4.9  | 108       |
| 57 | Rivers as the largest source of mercury to coastal oceans worldwide. <i>Nature Geoscience</i> , 2021, 14, 672-677.   | 12.9 | 107       |
| 58 | Lateral Marsh Edge Erosion as a Source of Sediments for Vertical Marsh Accretion. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2444-2465.   | 3.0  | 104       |
| 59 | Enhanced transfer of terrestrially derived carbon to the atmosphere in a flooding event. <i>Geophysical Research Letters</i> , 2013, 40, 116-122.  | 4.0  | 101       |
| 60 | Hydrologic Drivers and Seasonality of Dissolved Organic Carbon Concentration, Nitrogen Content, Bioavailability, and Export in a Forested New England Stream. <i>Ecosystems</i> , 2013, 16, 604-616.   | 3.4  | 100       |
| 61 | 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        |
| 62 | Riverine DOM. , 2015, , 509-533.   |      | 95        |
| 63 | The carbon budget of South Asia. <i>Biogeosciences</i> , 2013, 10, 513-527.  | 3.3  | 94        |
| 64 | Long term changes of chemical weathering products in rivers heavily impacted from acid mine drainage: Insights on the impact of coal mining on regional and global carbon and sulfur budgets. <i>Earth and Planetary Science Letters</i> , 2009, 284, 50-56. | 4.4  | 91        |
| 65 | Significant methane ebullition from alpine permafrost rivers on the East Qinghaiâ€“Tibet Plateau. <i>Nature Geoscience</i> , 2020, 13, 349-354.  | 12.9 | 85        |
| 66 | Riverine Export of Aged Carbon Driven by Flow Path Depth and Residence Time. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1028-1035.  | 10.0 | 84        |
| 67 | Ecosystem Modulation of Dissolved Carbon Age in a Temperate Marsh-Dominated Estuary. <i>Ecosystems</i> , 2003, 6, 694-705.   | 3.4  | 83        |
| 68 | Landâ€“use controls on sources and processing of nitrate in small watersheds: insights from dual isotopic analysis. <i>Ecological Applications</i> , 2010, 20, 1961-1978.  | 3.8  | 82        |
| 69 | Landscapeâ€“level controls on dissolved carbon flux from diverse catchments of the circumboreal. <i>Global Biogeochemical Cycles</i> , 2012, 26, .   | 4.9  | 82        |
| 70 | Fluxes of water, sediments, and biogeochemical compounds in salt marshes. <i>Ecological Processes</i> , 2013, 2, .   | 3.9  | 82        |
| 71 | A New High-Resolution N <sub>2</sub> O Emission Inventory for China in 2008. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8538-8547.  | 10.0 | 82        |
| 72 | Evidence for the assimilation of ancient glacier organic carbon in a proglacial stream food web. <i>Limnology and Oceanography</i> , 2015, 60, 1118-1128.  | 3.1  | 79        |

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|----|--|-----|-----------|
| 73 | Anthropogenic influences on riverine fluxes of dissolved inorganic carbon to the oceans. <i>Limnology and Oceanography Letters</i> , 2018, 3, 143-155.   | 3.9 | 75        |
| 74 | Development of a Pan- $\text{\AA}$ Arctic Database for River Chemistry. <i>Eos</i> , 2008, 89, 217-218.  | 0.1 | 72        |
| 75 | Influences of glacier melt and permafrost thaw on the age of dissolved organic carbon in the Yukon River basin. <i>Global Biogeochemical Cycles</i> , 2014, 28, 525-537.   | 4.9 | 70        |
| 76 | Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwa145.  | 9.5 | 70        |
| 77 | 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        |
| 78 | The composition and transport of organic carbon in rainfall: Insights from the natural ( $^{13}\text{C}$ and $^{14}\text{C}$ ) isotopes of carbon. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.                                  | 4.0 | 64        |
| 79 | Relationships between $\delta^{14}\text{C}$ and the molecular quality of dissolved organic carbon in rivers draining to the coast from the conterminous United States. <i>Global Biogeochemical Cycles</i> , 2012, 26, .                     | 4.9 | 64        |
| 80 | Estimating nitrogen and phosphorus concentrations in streams and rivers, within a machine learning framework. <i>Scientific Data</i> , 2020, 7, 161.   | 5.3 | 64        |
| 81 | Dual isotope analyses indicate efficient processing of atmospheric nitrate by forested watersheds in the northeastern U.S.. <i>Biogeochemistry</i> , 2008, 90, 15-27.  | 3.5 | 62        |
| 82 | Linking lithology and land use to sources of dissolved and particulate organic matter in headwaters of a temperate, passive-margin river system. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4233-4250.                               | 3.9 | 61        |
| 83 | Regional trends and drivers of the global methane budget. <i>Global Change Biology</i> , 2022, 28, 182-200.  | 9.5 | 56        |
| 84 | Molecular Hysteresis: Hydrologically Driven Changes in Riverine Dissolved Organic Matter Chemistry During a Storm Event. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 759-774.                                      | 3.0 | 55        |
| 85 | The European land and inland water $\text{CO}_2$ , $\text{CO}$ , $\text{CH}_4$ and $\text{N}_2\text{O}$ balance between 2001 and 2005. <i>Biogeosciences</i> , 2012, 9, 3357-3380.   | 3.3 | 53        |
| 86 | Dissolved organic carbon biolability decreases along with its modernization in fluvial networks in an ancient landscape. <i>Ecology</i> , 2014, 95, 2622-2632.   | 3.2 | 53        |
| 87 | The impact of fertilization and hydrology on nitrate fluxes from Mississippi watersheds. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 212-218.  | 6.3 | 52        |
| 88 | Influence of watershed-climate interactions on stream temperature, sediment yield, and metabolism along a land use intensity gradient in Indonesian Borneo. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1110-1128. | 3.0 | 51        |
| 89 | Greenhouse gases emissions in rivers of the Tibetan Plateau. <i>Scientific Reports</i> , 2017, 7, 16573.   | 3.3 | 50        |
| 90 | The importance of hydrology in routing terrestrial carbon to the atmosphere via global streams and rivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106322119.                  | 7.1 | 48        |

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|-----|---|------|-----------|
| 91  | What controls the spatial patterns of the riverine carbonate system? â€” A case study for North America. <i>Chemical Geology</i> , 2013, 337-338, 114-127.  | 3.3  | 47        |
| 92  | 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        |
| 93  | New model for capturing the variations of fertilizerâ€”induced emission factors of N <sub>2</sub> O. <i>Global Biogeochemical Cycles</i> , 2015, 29, 885-897.   | 4.9  | 42        |
| 94  | Seasonal variability of organic matter composition in an Alaskan glacier outflow: insights into glacier carbon sources. <i>Environmental Research Letters</i> , 2014, 9, 055005.  | 5.2  | 41        |
| 95  | Lakes on the Tibetan Plateau as Conduits of Greenhouse Gases to the Atmosphere. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2091-2103.  | 3.0  | 41        |
| 96  | Natural Lakes Are a Minor Global Source of N <sub>2</sub> O to the Atmosphere. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1564-1581.   | 4.9  | 40        |
| 97  | Simulating streamflow and dissolved organic matter export from a forested watershed. <i>Water Resources Research</i> , 2012, 48, .  | 4.2  | 36        |
| 98  | Immobilization of relic anthropogenic dissolved organic matter from alpine rivers in the Himalayan-Tibetan Plateau in winter. <i>Water Research</i> , 2019, 160, 97-106.  | 11.3 | 36        |
| 99  | Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of <sup>14</sup> C Measurements From the Northern Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006672.                    | 4.9  | 36        |
| 100 | Using dissolved organic matter age and composition to detect permafrost thaw in boreal watersheds of interior Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 2155-2170.  | 3.0  | 35        |
| 101 | Land Use, Not Stream Order, Controls N <sub>2</sub> O Concentration and Flux in the Upper Mara River Basin, Kenya. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3491-3506.   | 3.0  | 35        |
| 102 | Seasonal response of airâ€”water CO <sub>2</sub> exchange along the landâ€”ocean aquatic continuum of the northeast North American coast.. <i>Biogeosciences</i> , 2015, 12, 1447-1458.   | 3.3  | 34        |
| 103 | Spatial Variation in the Origin of Dissolved Organic Carbon in Snow on the Juneau Icefield, Southeast Alaska. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11492-11499.  | 10.0 | 34        |
| 104 | Hydrologic controls on <i>p</i> CO <sub>2</sub> and CO <sub>2</sub> efflux in US streams and rivers. <i>Limnology and Oceanography Letters</i> , 2018, 3, 428-435.  | 3.9  | 34        |
| 105 | Fossil Fuel Combustion Emission From South Asia Influences Precipitation Dissolved Organic Carbon Reaching the Remote Tibetan Plateau: Isotopic and Molecular Evidence. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6248-6258. | 3.3  | 34        |
| 106 | Enhancement of primary production during drought in a temperate watershed is greater in larger rivers than headwater streams. <i>Limnology and Oceanography</i> , 2019, 64, 1458-1472.  | 3.1  | 34        |
| 107 | Temperature versus hydrologic controls of chemical weathering fluxes from United States forests. <i>Chemical Geology</i> , 2017, 458, 1-13.   | 3.3  | 33        |
| 108 | Differential Response of Greenhouse Gas Evasion to Storms in Forested and Wetland Streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 649-662.   | 3.0  | 33        |

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|-----|--|------|-----------|
| 109 | An Abrupt Aging of Dissolved Organic Carbon in Large Arctic Rivers. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088823.   | 4.0  | 33        |
| 110 | Quantity, <sup>14</sup> C age and lability of desorbed soil organic carbon in fresh water and seawater. <i>Organic Geochemistry</i> , 2007, 38, 1547-1557.   | 1.8  | 32        |
| 111 | Pan-Arctic Riverine Dissolved Organic Matter: Synchronous Molecular Stability, Shifting Sources and Subsidies. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006871.  | 4.9  | 31        |
| 112 | Source Switching Maintains Dissolved Organic Matter Chemostasis Across Discharge Levels in a Large Temperate River Network. <i>Ecosystems</i> , 2021, 24, 227-247.   | 3.4  | 30        |
| 113 | Aged dissolved organic carbon exported from rivers of the Tibetan Plateau. <i>PLoS ONE</i> , 2017, 12, e0178166.   | 2.5  | 29        |
| 114 | Deposition of Organic and Black Carbon: Direct Measurements at Three Remote Stations in the Himalayas and Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9702-9715.                       | 3.3  | 29        |
| 115 | Evaluating $\text{CO}_2$ calculation error from organic alkalinity and pH measurement error in low ionic strength freshwaters. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 606-622.                                 | 2.0  | 29        |
| 116 | Multiple-source heterotrophy fueled by aged organic carbon in an urbanized estuary. <i>Marine Chemistry</i> , 2011, 124, 14-22.  | 2.3  | 28        |
| 117 | Watershed Glacier Coverage Influences Dissolved Organic Matter Biogeochemistry in Coastal Watersheds of Southeast Alaska. <i>Ecosystems</i> , 2014, 17, 1014-1025.   | 3.4  | 27        |
| 118 | Increases in humic and bioavailable dissolved organic matter in a forested New England headwater stream with increasing discharge. <i>Marine and Freshwater Research</i> , 2016, 67, 1279.                                     | 1.3  | 26        |
| 119 | Association Between Sporadic Legionellosis and River Systems in Connecticut. <i>Journal of Infectious Diseases</i> , 2018, 217, 179-187.   | 4.0  | 25        |
| 120 | Gas transfer velocities in small forested ponds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1011-1021.  | 3.0  | 22        |
| 121 | Warming and monsoonal climate lead to large export of millennial-aged carbon from permafrost catchments of the Qinghai-Tibet Plateau. <i>Environmental Research Letters</i> , 2020, 15, 074012.                                | 5.2  | 21        |
| 122 | Spatiotemporal Variability and Sources of DIC in Permafrost Catchments of the Yangtze River Source Region: Insights From Stable Carbon Isotope and Water Chemistry. <i>Water Resources Research</i> , 2020, 56, e2019WR025343. | 4.2  | 20        |
| 123 | Substantial overnight reaeration by convective cooling discovered in pond ecosystems. <i>Geophysical Research Letters</i> , 2016, 43, 8044-8051.   | 4.0  | 19        |
| 124 | Watershed hydrology and dissolved organic matter export across time scales: minute to millennium. <i>Freshwater Science</i> , 2015, 34, 392-398.   | 1.8  | 18        |
| 125 | Estimates of New and Total Productivity in Central Long Island Sound from In Situ Measurements of Nitrate and Dissolved Oxygen. <i>Estuaries and Coasts</i> , 2013, 36, 74-97.   | 2.2  | 16        |
| 126 | High Frequency Data Exposes Nonlinear Seasonal Controls on Dissolved Organic Matter in a Large Watershed. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5644-5652.   | 10.0 | 15        |



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|-----|---|------|-----------|
| 127 | Substantial accumulation of mercury in the deepest parts of the ocean and implications for the environmental mercury cycle. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .                 | 7.1  | 15        |
| 128 | Highest rates of gross primary productivity maintained despite $\text{CO}_2$ depletion in a temperate river network. Limnology and Oceanography Letters, 2021, 6, 200-206.  | 3.9  | 14        |
| 129 | Patterns in stream greenhouse gas dynamics from mountains to plains in northcentral Wyoming. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2173-2190.   | 3.0  | 13        |
| 130 | Multidecadal climate-induced changes in Arctic tundra lake geochemistry and geomorphology. Limnology and Oceanography, 2019, 64, S179.  | 3.1  | 12        |
| 131 | The evolution of stream dissolved organic matter composition following glacier retreat in coastal watersheds of southeast Alaska. Biogeochemistry, 2023, 164, 99-116.   | 3.5  | 12        |
| 132 | The age of the Amazon's breath. Nature, 2005, 436, 469-470.   | 27.8 | 11        |
| 133 | River network travel time is correlated with dissolved organic matter composition in rivers of the contiguous United States. Hydrological Processes, 2021, 35, e14124.  | 2.6  | 11        |
| 134 | Does Photomineralization of Dissolved Organics Matter in Temperate Rivers?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006402.  | 3.0  | 11        |
| 135 | Lake Morphometry and River Network Controls on Evasion of Terrestrially Sourced Headwater $\text{CO}_2$ . Geophysical Research Letters, 2021, 48, .   | 4.0  | 11        |
| 136 | Global Controls on DOC Reaction Versus Export in Watersheds: A Dam-Whaler Number Analysis. Global Biogeochemical Cycles, 2022, 36, .  | 4.9  | 11        |
| 137 | Generalized Growth of Estuarine, Household and Clinical Isolates of Pseudomonas aeruginosa. Frontiers in Microbiology, 2018, 9, 305.  | 3.5  | 10        |
| 138 | Distinct concentration-discharge dynamics in temperate streams and rivers: $\text{CO}_2$ exhibits chemostasis while $\text{CH}_4$ exhibits source limitation due to temperature control. Limnology and Oceanography, 2021, 66, 3656-3668. | 3.1  | 10        |
| 139 | The experimental flow to the Colorado River delta: Effects on carbon mobilization in a dry watercourse. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 607-627.  | 3.0  | 9         |
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