

Robert G M Spencer

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The evolution of stream dissolved organic matter composition following glacier retreat in coastal watersheds of southeast Alaska. <i>Biogeochemistry</i> , 2023, 164, 99-116. | 1.7 | 12 |
| 2 | Anthropogenic landcover impacts fluvial dissolved organic matter composition in the Upper Mississippi River Basin. <i>Biogeochemistry</i> , 2023, 164, 117-141. | 1.7 | 16 |
| 3 | From canopy to consumer: what makes and modifies terrestrial DOM in a temperate forest. <i>Biogeochemistry</i> , 2023, 164, 185-205. | 1.7 | 6 |
| 4 | Shifting stoichiometry: Long-term trends in stream dissolved organic matter reveal altered C:N ratios due to history of atmospheric acid deposition. <i>Global Change Biology</i> , 2022, 28, 98-114. | 4.2 | 22 |
| 5 | Zooplankton release complex dissolved organic matter to aquatic environments. <i>Biogeochemistry</i> , 2022, 157, 313-325. | 1.7 | 5 |
| 6 | Degrading permafrost river catchments and their impact on Arctic Ocean nearshore processes. <i>Ambio</i> , 2022, 51, 439-455. | 2.8 | 27 |
| 7 | Low N ₂ O and variable CH ₄ fluxes from tropical forest soils of the Congo Basin. <i>Nature Communications</i> , 2022, 13, 330. | 5.8 | 17 |
| 8 | Quantifying the inhibitory impact of soluble phenolics on anaerobic carbon mineralization in a thawing permafrost peatland. <i>PLoS ONE</i> , 2022, 17, e0252743. | 1.1 | 1 |
| 9 | Multidecadal declines in particulate mercury and sediment export from Russian rivers in the pan-Arctic basin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119857119. | 3.3 | 14 |
| 10 | Heterogeneous Patterns of Aged Organic Carbon Export Driven by Hydrologic Flow Paths, Soil Texture, Fire, and Thaw in Discontinuous Permafrost Headwaters. <i>Global Biogeochemical Cycles</i> , 2022, 36, . | 1.9 | 5 |
| 11 | Unraveling the Role of Anthropogenic and Natural Drivers in Shaping the Molecular Composition and Biolability of Dissolved Organic Matter in Non-pristine Lakes. <i>Environmental Science & Technology</i> , 2022, 56, 4655-4664. | 4.6 | 36 |
| 12 | Trapped Under Ice: Spatial and Seasonal Dynamics of Dissolved Organic Matter Composition in Tundra Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, . | 1.3 | 3 |
| 13 | A new conceptual framework for the transformation of groundwater dissolved organic matter. <i>Nature Communications</i> , 2022, 13, 2153. | 5.8 | 69 |
| 14 | Organic Molecular Signatures of the Congo River and Comparison to the Amazon. <i>Global Biogeochemical Cycles</i> , 2022, 36, . | 1.9 | 14 |
| 15 | Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. <i>Science Advances</i> , 2022, 8, . | 4.7 | 16 |
| 16 | Hydrocarbons to carboxyl-rich alicyclic molecules: A continuum model to describe biodegradation of petroleum-derived dissolved organic matter in contaminated groundwater plumes. <i>Journal of Hazardous Materials</i> , 2021, 402, 123998. | 6.5 | 31 |
| 17 | Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006719. | 1.9 | 30 |
| 18 | How humans alter dissolved organic matter composition in freshwater: relevance for the Earth's biogeochemistry. <i>Biogeochemistry</i> , 2021, 154, 323-348. | 1.7 | 75 |

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|----|---|-----|-----------|
| 19 | How hydrology and anthropogenic activity influence the molecular composition and export of dissolved organic matter: Observations along a large river continuum. <i>Limnology and Oceanography</i> , 2021, 66, 1730-1742. | 1.6 | 29 |
| 20 | Molecular Signatures of Glacial Dissolved Organic Matter From Svalbard and Greenland. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006709. | 1.9 | 17 |
| 21 | Molecular Insights into Glacial Cryoconite Dissolved Organic Matter Evolution under Dark Conditions during the Ablation Season on the Tibetan Plateau. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 870-879. | 1.2 | 4 |
| 22 | Seasonal Changes in Dissolved Organic Matter Composition in a Patagonian Fjord Affected by Glacier Melt Inputs. <i>Frontiers in Marine Science</i> , 2021, 8, . | 1.2 | 6 |
| 23 | Panâ€Arctic Riverine Dissolved Organic Matter: Synchronous Molecular Stability, Shifting Sources and Subsidies. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006871. | 1.9 | 31 |
| 24 | The Pulse of the Amazon: Fluxes of Dissolved Organic Carbon, Nutrients, and Ions From the World's Largest River. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006895. | 1.9 | 16 |
| 25 | Large subglacial source of mercury from the southwestern margin of the Greenland Ice Sheet. <i>Nature Geoscience</i> , 2021, 14, 496-502. | 5.4 | 32 |
| 26 | Drivers of Organic Molecular Signatures in the Amazon River. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006938. | 1.9 | 12 |
| 27 | Limited Presence of Permafrost Dissolved Organic Matter in the Kolyma River, Siberia Revealed by Ramped Oxidation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005977. | 1.3 | 16 |
| 28 | Questions remain about the biolability of dissolved black carbon along the combustion continuum. <i>Nature Communications</i> , 2021, 12, 4281. | 5.8 | 28 |
| 29 | Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006953. | 1.9 | 22 |
| 30 | Controls on Riverine Dissolved Organic Matter Composition Across an Arcticâ€Boreal Latitudinal Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005988. | 1.3 | 7 |
| 31 | Dissolved organic matter sources in glacierized watersheds delineated through compositional and carbon isotopic modeling. <i>Limnology and Oceanography</i> , 2021, 66, 438-451. | 1.6 | 16 |
| 32 | Assessing the Role of Photochemistry in Driving the Composition of Dissolved Organic Matter in Glacier Runoff. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006516. | 1.3 | 7 |
| 33 | Changes in groundwater dissolved organic matter character in a coastal sand aquifer due to rainfall recharge. <i>Water Research</i> , 2020, 169, 115201. | 5.3 | 60 |
| 34 | Landâ€use controls on carbon biogeochemistry in lowland streams of the Congo Basin. <i>Global Change Biology</i> , 2020, 26, 1374-1389. | 4.2 | 30 |
| 35 | Fundamental drivers of dissolved organic matter composition across an Arctic effective precipitation gradient. <i>Limnology and Oceanography</i> , 2020, 65, 1217-1234. | 1.6 | 36 |
| 36 | Rainstorm events shift the molecular composition and export of dissolved organic matter in a large drinking water reservoir in China: High frequency buoys and field observations. <i>Water Research</i> , 2020, 187, 116471. | 5.3 | 38 |

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| 37 | Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006495. | 1.9 | 29 |
| 38 | Life at the Frozen Limit: Microbial Carbon Metabolism Across a Late Pleistocene Permafrost Chronosequence. <i>Frontiers in Microbiology</i> , 2020, 11, 1753. | 1.5 | 16 |
| 39 | Enhanced trace element mobilization by Earth's ice sheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31648-31659. | 3.3 | 40 |
| 40 | Deciphering Dissolved Organic Matter: Ionization, Dopant, and Fragmentation Insights via Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2020, 54, 16249-16259. | 4.6 | 31 |
| 41 | Du Feu À l'Eau: Source and Flux of Dissolved Black Carbon From the Congo River. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006560. | 1.9 | 11 |
| 42 | Glacier Loss Impacts Riverine Organic Carbon Transport to the Ocean. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089804. | 1.5 | 19 |
| 43 | Stormflows Drive Stream Carbon Concentration, Speciation, and Dissolved Organic Matter Composition in Coastal Temperate Rainforest Watersheds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005804. | 1.3 | 8 |
| 44 | Wildfires lead to decreased carbon and increased nitrogen concentrations in upland arctic streams. <i>Scientific Reports</i> , 2020, 10, 8722. | 1.6 | 41 |
| 45 | Glacier Outflow Dissolved Organic Matter as a Window Into Seasonally Changing Carbon Sources: Leverett Glacier, Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005161. | 1.3 | 26 |
| 46 | Groundwater as a major source of dissolved organic matter to Arctic coastal waters. <i>Nature Communications</i> , 2020, 11, 1479. | 5.8 | 95 |
| 47 | Mercury Export from Arctic Great Rivers. <i>Environmental Science & Technology</i> , 2020, 54, 4140-4148. | 4.6 | 59 |
| 48 | Hydrologic connectivity determines dissolved organic matter biogeochemistry in northern high-latitude lakes. <i>Limnology and Oceanography</i> , 2020, 65, 1764-1780. | 1.6 | 37 |
| 49 | Arctic River Dissolved and Biogenic Silicon Exports—Current Conditions and Future Changes With Warming. <i>Global Biogeochemical Cycles</i> , 2020, 34, no. | 1.9 | 9 |
| 50 | Characterisation of shallow groundwater dissolved organic matter in aeolian, alluvial and fractured rock aquifers. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 273, 163-176. | 1.6 | 37 |
| 51 | Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020, 92, 1447-1467. | 0.9 | 15 |
| 52 | PLASMA BIOCHEMISTRY PROFILES OF JUVENILE GREEN TURTLES (CHELONIA MYDAS) FROM THE BAHAMAS WITH A POTENTIAL INFLUENCE OF DIET. <i>Journal of Wildlife Diseases</i> , 2020, 56, 768-780. | 0.3 | 3 |
| 53 | Ice sheets matter for the global carbon cycle. <i>Nature Communications</i> , 2019, 10, 3567. | 5.8 | 87 |
| 54 | The Molecular Composition of Humic Substances Isolated From Yedoma Permafrost and Alas Cores in the Eastern Siberian Arctic as Measured by Ultrahigh Resolution Mass Spectrometry. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2432-2445. | 1.3 | 9 |

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| 55 | Extreme rates and diel variability of planktonic respiration in a shallow sub-arctic lake. <i>Aquatic Sciences</i> , 2019, 81, 1. | 0.6 | 10 |
| 56 | Isotopic composition of oceanic dissolved black carbon reveals non-riverine source. <i>Nature Communications</i> , 2019, 10, 5064. | 5.8 | 73 |
| 57 | Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 46 |
| 58 | Convergence of Terrestrial Dissolved Organic Matter Composition and the Role of Microbial Buffering in Aquatic Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3125-3142. | 1.3 | 16 |
| 59 | Variability in Dissolved Organic Matter Composition and Biolability across Gradients of Glacial Coverage and Distance from Glacial Terminus on the Tibetan Plateau. <i>Environmental Science & Technology</i> , 2019, 53, 12207-12217. | 4.6 | 37 |
| 60 | Molecular-Level Composition and Acute Toxicity of Photosolubilized Petrogenic Carbon. <i>Environmental Science & Technology</i> , 2019, 53, 8235-8243. | 4.6 | 57 |
| 61 | Mobilization of aged and biolabile soil carbon by tropical deforestation. <i>Nature Geoscience</i> , 2019, 12, 541-546. | 5.4 | 97 |
| 62 | Increasing Organic Carbon Biolability With Depth in Yedoma Permafrost: Ramifications for Future Climate Change. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2021-2038. | 1.3 | 41 |
| 63 | Identifying the Molecular Signatures of Agricultural Expansion in Amazonian Headwater Streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1637-1650. | 1.3 | 53 |
| 64 | Microbial production and consumption of dissolved organic matter in glacial ecosystems on the Tibetan Plateau. <i>Water Research</i> , 2019, 160, 18-28. | 5.3 | 78 |
| 65 | Negligible cycling of terrestrial carbon in many lakes of the arid circumpolar landscape. <i>Nature Geoscience</i> , 2019, 12, 180-185. | 5.4 | 60 |
| 66 | Constraining dissolved organic matter sources and temporal variability in a model sub-Arctic lake. <i>Biogeochemistry</i> , 2019, 146, 271-292. | 1.7 | 22 |
| 67 | Multidecadal climate-induced changes in Arctic tundra lake geochemistry and geomorphology. <i>Limnology and Oceanography</i> , 2019, 64, S179. | 1.6 | 12 |
| 68 | Glacier meltwater and monsoon precipitation drive Upper Ganges Basin dissolved organic matter composition. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 216-228. | 1.6 | 28 |
| 69 | Flux and Seasonality of Dissolved Organic Matter From the Northern Dvina (Severnaya Dvina) River, Russia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1041-1056. | 1.3 | 33 |
| 70 | Selective Leaching of Dissolved Organic Matter From Alpine Permafrost Soils on the Qinghai-Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1005-1016. | 1.3 | 24 |
| 71 | The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1475-1485. | 1.3 | 53 |
| 72 | Unifying Concepts Linking Dissolved Organic Matter Composition to Persistence in Aquatic Ecosystems. <i>Environmental Science & Technology</i> , 2018, 52, 2538-2548. | 4.6 | 204 |

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| 73 | High fire-derived nitrogen deposition on central African forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 549-554. | 3.3 | 46 |
| 74 | Examining Natural Attenuation and Acute Toxicity of Petroleum-Derived Dissolved Organic Matter with Optical Spectroscopy. Environmental Science & Technology, 2018, 52, 6157-6166. | 4.6 | 73 |
| 75 | Terrestrial carbon inputs to inland waters: A current synthesis of estimates and uncertainty. Limnology and Oceanography Letters, 2018, 3, 132-142. | 1.6 | 368 |
| 76 | Spatiotemporal transformation of dissolved organic matter along an alpine stream flow path on the Qinghai-Tibet Plateau: importance of source and permafrost degradation. Biogeosciences, 2018, 15, 6637-6648. | 1.3 | 19 |
| 77 | An Assessment of Dissolved Organic Carbon Biodegradability and Priming in Blackwater Systems. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2998-3015. | 1.3 | 31 |
| 78 | Increasing Alkalinity Export from Large Russian Arctic Rivers. Environmental Science & Technology, 2018, 52, 8302-8308. | 4.6 | 74 |
| 79 | Accumulation of Terrestrial Dissolved Organic Matter Potentially Enhances Dissolved Methane Levels in Eutrophic Lake Taihu, China. Environmental Science & Technology, 2018, 52, 10297-10306. | 4.6 | 76 |
| 80 | Drivers of Dissolved Organic Matter in the Vent and Major Conduits of the World's Largest Freshwater Spring. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2775-2790. | 1.3 | 20 |
| 81 | O transporte de carbono orgânico dissolvido e nutrientes nitrogenados no canal principal do Rio Amazonas, no Estreito de Álbidos. Revista Ibero-americana De Ciências Ambientais, 2018, 9, 308-319. | 0.0 | 0 |
| 82 | Estimation and Sensitivity of Carbon Storage in Permafrost of North-Eastern Yakutia. Permafrost and Periglacial Processes, 2017, 28, 379-390. | 1.5 | 26 |
| 83 | Old before your time: Ancient carbon incorporation in contemporary aquatic foodwebs. Limnology and Oceanography, 2017, 62, 1682-1700. | 1.6 | 45 |
| 84 | Low photolability of yedoma permafrost dissolved organic carbon. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 200-211. | 1.3 | 52 |
| 85 | Temporal and Longitudinal Mercury Trends in Burbot (<i>Lota lota</i>) in the Russian Arctic. Environmental Science & Technology, 2017, 51, 13436-13442. | 4.6 | 10 |
| 86 | Dissolved Organic Matter Compositional Change and Biolability During Two Storm Runoff Events in a Small Agricultural Watershed. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2634-2650. | 1.3 | 32 |
| 87 | Irrigation as a fuel pump to freshwater ecosystems. Biogeochemistry, 2017, 136, 71-90. | 1.7 | 5 |
| 88 | Hydrologic controls on seasonal and inter-annual variability of Congo River particulate organic matter source and reservoir age. Chemical Geology, 2017, 466, 454-465. | 1.4 | 28 |
| 89 | Online quantification and compound-specific stable isotopic analysis of black carbon in environmental matrices via liquid chromatography-isotope ratio mass spectrometry. Limnology and Oceanography: Methods, 2017, 15, 995-1006. | 1.0 | 33 |
| 90 | The Genesis and Exodus of Vascular Plant DOM from an Oak Woodland Landscape. Frontiers in Earth Science, 2017, 5, . | 0.8 | 24 |

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| 91 | Pan-Arctic Trends in Terrestrial Dissolved Organic Matter from Optical Measurements. <i>Frontiers in Earth Science</i> , 2016, 4, . | 0.8 | 104 |
| 92 | Molecular Signatures of Biogeochemical Transformations in Dissolved Organic Matter from Ten World Rivers. <i>Frontiers in Earth Science</i> , 2016, 4, . | 0.8 | 96 |
| 93 | A novel molecular approach for tracing terrigenous dissolved organic matter into the deep ocean. <i>Global Biogeochemical Cycles</i> , 2016, 30, 689-699. | 1.9 | 81 |
| 94 | Riverine dissolved lithium isotopic signatures in low-relief central Africa and their link to weathering regimes. <i>Geophysical Research Letters</i> , 2016, 43, 4391-4399. | 1.5 | 35 |
| 95 | Opportunities for hydrologic research in the Congo Basin. <i>Reviews of Geophysics</i> , 2016, 54, 378-409. | 9.0 | 145 |
| 96 | Origins, seasonality, and fluxes of organic matter in the Congo River. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1105-1121. | 1.9 | 59 |
| 97 | Assessing the drivers of dissolved organic matter export from two contrasting lowland catchments, U.K. <i>Science of the Total Environment</i> , 2016, 569-570, 1330-1340. | 3.9 | 30 |
| 98 | DOM composition and transformation in boreal forest soils: The effects of temperature and organic-horizon decomposition state. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2727-2744. | 1.3 | 77 |
| 99 | Impact of seasonality and anthropogenic impoundments on dissolved organic matter dynamics in the Klamath River (Oregon/California, USA). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1946-1958. | 1.3 | 20 |
| 100 | Particulate organic carbon and nitrogen export from major Arctic rivers. <i>Global Biogeochemical Cycles</i> , 2016, 30, 629-643. | 1.9 | 157 |
| 101 | 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. | 2.2 | 199 |
| 102 | Novel insights from NMR spectroscopy into seasonal changes in the composition of dissolved organic matter exported to the Bering Sea by the Yukon River. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 72-88. | 1.6 | 30 |
| 103 | Assessing the potential impacts of declining Arctic sea ice cover on the photochemical degradation of dissolved organic matter in the Chukchi and Beaufort Seas. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2326-2344. | 1.3 | 17 |
| 104 | A comparison of a simplified cupric oxide oxidation HPLC method with the traditional GC-MS method for characterization of lignin phenolics in environmental samples. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 1-8. | 1.0 | 16 |
| 105 | Utilizing colored dissolved organic matter to derive dissolved black carbon export by arctic rivers. <i>Frontiers in Earth Science</i> , 2015, 3, . | 0.8 | 83 |
| 106 | Biodegradability of dissolved organic carbon in permafrost soils and aquatic systems: a meta-analysis. <i>Biogeosciences</i> , 2015, 12, 6915-6930. | 1.3 | 153 |
| 107 | Storage and release of organic carbon from glaciers and ice sheets. <i>Nature Geoscience</i> , 2015, 8, 91-96. | 5.4 | 262 |
| 108 | Detecting the signature of permafrost thaw in Arctic rivers. <i>Geophysical Research Letters</i> , 2015, 42, 2830-2835. | 1.5 | 261 |

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|-----|---|-----|-----------|
| 109 | Ancient low-molecular-weight organic acids in permafrost fuel rapid carbon dioxide production upon thaw. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13946-13951. | 3.3 | 201 |
| 110 | Utilization of ancient permafrost carbon in headwaters of Arctic fluvial networks. <i>Nature Communications</i> , 2015, 6, 7856. | 5.8 | 189 |
| 111 | Spatial Variation in the Origin of Dissolved Organic Carbon in Snow on the Juneau Icefield, Southeast Alaska. <i>Environmental Science & Technology</i> , 2015, 49, 11492-11499. | 4.6 | 34 |
| 112 | Riverine DOM. , 2015, , 509-533. | | 95 |
| 113 | Coordination and Sustainability of River Observing Activities in the Arctic. <i>Arctic</i> , 2015, 68, 59. | 0.2 | 24 |
| 114 | Seasonal variability of organic matter composition in an Alaskan glacier outflow: insights into glacier carbon sources. <i>Environmental Research Letters</i> , 2014, 9, 055005. | 2.2 | 41 |
| 115 | Paradigm shifts in soil organic matter research affect interpretations of aquatic carbon cycling: transcending disciplinary and ecosystem boundaries. <i>Biogeochemistry</i> , 2014, 117, 279-297. | 1.7 | 196 |
| 116 | Evidence for key enzymatic controls on metabolism of Arctic river organic matter. <i>Global Change Biology</i> , 2014, 20, 1089-1100. | 4.2 | 70 |
| 117 | The biogeochemistry of carbon across a gradient of streams and rivers within the Congo Basin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 687-702. | 1.3 | 54 |
| 118 | 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. | 1.6 | 186 |
| 119 | Low and Declining Mercury in Arctic Russian Rivers. <i>Environmental Science & Technology</i> , 2014, 48, 747-752. | 4.6 | 14 |
| 120 | Watershed Glacier Coverage Influences Dissolved Organic Matter Biogeochemistry in Coastal Watersheds of Southeast Alaska. <i>Ecosystems</i> , 2014, 17, 1014-1025. | 1.6 | 27 |
| 121 | Fluorescence Indices and Their Interpretation. , 2014, , 303-338. | | 49 |
| 122 | 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. | 1.9 | 70 |
| 123 | Mobilization of optically invisible dissolved organic matter in response to rainstorm events in a tropical forest headwater river. <i>Geophysical Research Letters</i> , 2014, 41, 1202-1208. | 1.5 | 38 |
| 124 | DOM composition in an agricultural watershed: Assessing patterns and variability in the context of spatial scales. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 599-610. | 1.6 | 23 |
| 125 | Global Charcoal Mobilization from Soils via Dissolution and Riverine Transport to the Oceans. <i>Science</i> , 2013, 340, 345-347. | 6.0 | 432 |
| 126 | High biolability of ancient permafrost carbon upon thaw. <i>Geophysical Research Letters</i> , 2013, 40, 2689-2693. | 1.5 | 230 |

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|-----|--|------|-----------|
| 127 | Dissolved organic carbon loss from Yedoma permafrost amplified by ice wedge thaw. <i>Environmental Research Letters</i> , 2013, 8, 035023. | 2.2 | 53 |
| 128 | Inorganic carbon speciation and fluxes in the Congo River. <i>Geophysical Research Letters</i> , 2013, 40, 511-516. | 1.5 | 75 |
| 129 | Chromophoric dissolved organic matter export from U.S. rivers. <i>Geophysical Research Letters</i> , 2013, 40, 1575-1579. | 1.5 | 94 |
| 130 | Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. <i>Nature Geoscience</i> , 2012, 5, 198-201. | 5.4 | 199 |
| 131 | An initial investigation into the organic matter biogeochemistry of the Congo River. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 84, 614-627. | 1.6 | 108 |
| 132 | Controls on the composition and lability of dissolved organic matter in Siberia's Kolyma River basin. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 247 |
| 133 | Dissolved organic carbon and chromophoric dissolved organic matter properties of rivers in the USA. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 323 |
| 134 | Biodegradability of dissolved organic carbon in the Yukon River and its tributaries: Seasonality and importance of inorganic nitrogen. <i>Global Biogeochemical Cycles</i> , 2012, 26, . | 1.9 | 191 |
| 135 | Organic matter sources, fluxes and greenhouse gas exchange in the Oubangui River (Congo River) Tj ETQq1 1 0.784314 rgBT/Overlo | 1.3 | 88 |
| 136 | Controls on dissolved organic carbon composition and export from rice-dominated systems. <i>Biogeochemistry</i> , 2012, 108, 447-466. | 1.7 | 26 |
| 137 | Illuminated darkness: Molecular signatures of Congo River dissolved organic matter and its photochemical alteration as revealed by ultrahigh precision mass spectrometry. <i>Limnology and Oceanography</i> , 2010, 55, 1467-1477. | 1.6 | 527 |
| 138 | The impact of glacier runoff on the biodegradability and biochemical composition of terrigenous dissolved organic matter in near-shore marine ecosystems. <i>Marine Chemistry</i> , 2010, 121, 112-122. | 0.9 | 153 |
| 139 | Microbial Degradation of Plant Leachate Alters Lignin Phenols and Trihalomethane Precursors. <i>Journal of Environmental Quality</i> , 2010, 39, 946-954. | 1.0 | 62 |
| 140 | Fluorescence spectroscopy opens new windows into dissolved organic matter dynamics in freshwater ecosystems: A review. <i>Limnology and Oceanography</i> , 2010, 55, 2452-2462. | 1.6 | 961 |
| 141 | Temporal controls on dissolved organic matter and lignin biogeochemistry in a pristine tropical river, Democratic Republic of Congo. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 137 |
| 142 | Comparison of XAD with other dissolved lignin isolation techniques and a compilation of analytical improvements for the analysis of lignin in aquatic settings. <i>Organic Geochemistry</i> , 2010, 41, 445-453. | 0.9 | 68 |
| 143 | Measurement of Dissolved Organic Matter Fluorescence in Aquatic Environments: An Interlaboratory Comparison. <i>Environmental Science & Technology</i> , 2010, 44, 9405-9412. | 4.6 | 562 |
| 144 | Glaciers as a source of ancient and labile organic matter to the marine environment. <i>Nature</i> , 2009, 462, 1044-1047. | 13.7 | 452 |

| # | ARTICLE | IF | CITATIONS |
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| 148 | The role of hydrologic regimes on dissolved organic carbon composition in an agricultural watershed. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5266-5277. | 1.6 | 109 |
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