

William H McDowell

List of Publications by Year in descending order

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Version: 2024-02-01

272
papers

30,832
citations

5876

81
h-index

4870

168
g-index

276
all docs

276
docs citations

276
times ranked

22289
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Plumbing the Global Carbon Cycle: Integrating Inland Waters into the Terrestrial Carbon Budget. <i>Ecosystems</i> , 2007, 10, 172-185. | 1.6 | 2,836 |
| 2 | Biogeochemical Hot Spots and Hot Moments at the Interface of Terrestrial and Aquatic Ecosystems. <i>Ecosystems</i> , 2003, 6, 301-312. | 1.6 | 1,874 |
| 3 | Nitrogen Saturation in Temperate Forest Ecosystems. <i>BioScience</i> , 1998, 48, 921-934. | 2.2 | 1,630 |
| 4 | The global abundance and size distribution of lakes, ponds, and impoundments. <i>Limnology and Oceanography</i> , 2006, 51, 2388-2397. | 1.6 | 1,426 |
| 5 | Control of Nitrogen Export from Watersheds by Headwater Streams. <i>Science</i> , 2001, 292, 86-90. | 6.0 | 1,209 |
| 6 | Stream denitrification across biomes and its response to anthropogenic nitrate loading. <i>Nature</i> , 2008, 452, 202-205. | 13.7 | 1,097 |
| 7 | Origin, Composition, and Flux of Dissolved Organic Carbon in the Hubbard Brook Valley. <i>Ecological Monographs</i> , 1988, 58, 177-195. | 2.4 | 595 |
| 8 | Nitrous oxide emission from denitrification in stream and river networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 214-219. | 3.3 | 517 |
| 9 | An integrated conceptual framework for long-term social-ecological research. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 351-357. | 1.9 | 462 |
| 10 | Scaling the gas transfer velocity and hydraulic geometry in streams and small rivers. <i>Limnology & Oceanography Fluids & Environments</i> , 2012, 2, 41-53. | 1.7 | 444 |
| 11 | Soil C:N ratio as a predictor of annual riverine DOC flux at local and global scales. <i>Global Biogeochemical Cycles</i> , 2000, 14, 127-138. | 1.9 | 411 |
| 12 | Acid rain™, dissolved aluminum and chemical weathering at the Hubbard Brook Experimental Forest, New Hampshire. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 1421-1437. | 1.6 | 392 |
| 13 | Spatial and temporal variations in DOM composition in ecosystems: The importance of long-term monitoring of optical properties. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 388 |
| 14 | Ecosystem response to 15 years of chronic nitrogen additions at the Harvard Forest LTER, Massachusetts, USA. <i>Forest Ecology and Management</i> , 2004, 196, 7-28. | 1.4 | 387 |
| 15 | Inter-biome comparison of factors controlling stream metabolism. <i>Freshwater Biology</i> , 2001, 46, 1503-1517. | 1.2 | 360 |
| 16 | The globalization of N deposition: ecosystem consequences in tropical environments. <i>Biogeochemistry</i> , 1999, 46, 67-83. | 1.7 | 350 |
| 17 | Vertical transport of dissolved organic C and N under long-term N amendments in pine and hardwood forests. <i>Biogeochemistry</i> , 1996, 35, 471-505. | 1.7 | 325 |
| 18 | PODZOLIZATION. <i>Soil Science</i> , 1984, 137, 23-32. | 0.9 | 320 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. <i>Biogeochemistry</i> , 2014, 121, 305-316. | 1.7 | 302 |
| 20 | Long-Term Nitrogen Additions and Nitrogen Saturation in Two Temperate Forests. <i>Ecosystems</i> , 2000, 3, 238-253. | 1.6 | 301 |
| 21 | Title is missing!. <i>Biogeochemistry</i> , 2002, 57, 99-136. | 1.7 | 293 |
| 22 | Export of carbon, nitrogen, and major ions from three tropical montane watersheds. <i>Limnology and Oceanography</i> , 1994, 39, 111-125. | 1.6 | 287 |
| 23 | Macrosystems ecology: understanding ecological patterns and processes at continental scales. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 5-14. | 1.9 | 285 |
| 24 | Inter-regional comparison of land-use effects on stream metabolism. <i>Freshwater Biology</i> , 2010, 55, 1874-1890. | 1.2 | 267 |
| 25 | Global abundance and size distribution of streams and rivers. <i>Inland Waters</i> , 2012, 2, 229-236. | 1.1 | 257 |
| 26 | The metabolic regimes of flowing waters. <i>Limnology and Oceanography</i> , 2018, 63, S99. | 1.6 | 247 |
| 27 | Factors affecting ammonium uptake in streams - an inter-biome perspective. <i>Freshwater Biology</i> , 2003, 48, 1329-1352. | 1.2 | 233 |
| 28 | N uptake as a function of concentration in streams. <i>Journal of the North American Benthological Society</i> , 2002, 21, 206-220. | 3.0 | 222 |
| 29 | Nitrogen stable isotopic composition of leaves and soil: Tropical versus temperate forests. <i>Biogeochemistry</i> , 1999, 46, 45-65. | 1.7 | 207 |
| 30 | Dissolved organic matter in soils—future directions and unanswered questions. <i>Geoderma</i> , 2003, 113, 179-186. | 2.3 | 203 |
| 31 | Dissolved organic nitrogen budgets for upland, forested ecosystems in New England. <i>Biogeochemistry</i> , 2000, 49, 123-142. | 1.7 | 200 |
| 32 | A Cross-System Comparison of Bacterial and Fungal Biomass in Detritus Pools of Headwater Streams. <i>Microbial Ecology</i> , 2002, 43, 55-66. | 1.4 | 193 |
| 33 | The importance of nutrient pulses in tropical forests. <i>Trends in Ecology and Evolution</i> , 1994, 9, 384-387. | 4.2 | 192 |
| 34 | Genesis, goals and achievements of Long-Term Ecological Research at the global scale: A critical review of ILTER and future directions. <i>Science of the Total Environment</i> , 2018, 626, 1439-1462. | 3.9 | 191 |
| 35 | Can uptake length in streams be determined by nutrient addition experiments? Results from an interbiome comparison study. <i>Journal of the North American Benthological Society</i> , 2002, 21, 544-560. | 3.0 | 186 |
| 36 | The Long-term Effects of Disturbance on Organic and Inorganic Nitrogen Export in the White Mountains, New Hampshire. <i>Ecosystems</i> , 2000, 3, 433-450. | 1.6 | 185 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A comparison of methods to determine the biodegradable dissolved organic carbon from different terrestrial sources. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1933-1942. | 4.2 | 184 |
| 38 | Nitrate removal in stream ecosystems measured by 15N addition experiments: Denitrification. <i>Limnology and Oceanography</i> , 2009, 54, 666-680. | 1.6 | 181 |
| 39 | Novel ecosystems in the Anthropocene: a revision of the novel ecosystem concept for pragmatic applications. <i>Ecology and Society</i> , 2014, 19, . | 1.0 | 180 |
| 40 | Cloudwater chemistry from ten sites in North America. <i>Environmental Science & Technology</i> , 1988, 22, 1018-1026. | 4.6 | 179 |
| 41 | Elemental Dynamics in Streams. <i>Journal of the North American Benthological Society</i> , 1988, 7, 410-432. | 3.0 | 178 |
| 42 | Can't See the Forest for the Stream? In-stream Processing and Terrestrial Nitrogen Exports. <i>BioScience</i> , 2005, 55, 219. | 2.2 | 178 |
| 43 | Early stage litter decomposition across biomes. <i>Science of the Total Environment</i> , 2018, 628-629, 1369-1394. | 3.9 | 177 |
| 44 | FRESHWATER SHRIMP EFFECTS ON DETRITAL PROCESSING AND NUTRIENTS IN A TROPICAL HEADWATER STREAM. <i>Ecology</i> , 2001, 82, 775-783. | 1.5 | 175 |
| 45 | Increased Dissolved Organic Carbon (DOC) in Central European Streams is Driven by Reductions in Ionic Strength Rather than Climate Change or Decreasing Acidity. <i>Environmental Science & Technology</i> , 2009, 43, 4320-4326. | 4.6 | 168 |
| 46 | Nitrate removal in stream ecosystems measured by 15N addition experiments: Total uptake. <i>Limnology and Oceanography</i> , 2009, 54, 653-665. | 1.6 | 165 |
| 47 | Autumnal Processing of Dissolved Organic Matter in a Small Woodland Stream Ecosystem. <i>Ecology</i> , 1976, 57, 561-569. | 1.5 | 160 |
| 48 | Disturbance and long-term patterns of rainfall and throughfall nutrient fluxes in a subtropical wet forest in Puerto Rico. <i>Journal of Hydrology</i> , 2007, 333, 472-485. | 2.3 | 146 |
| 49 | Effects of nitrogen additions on above- and belowground carbon dynamics in two tropical forests. <i>Biogeochemistry</i> , 2011, 104, 203-225. | 1.7 | 145 |
| 50 | The effect of permafrost on stream biogeochemistry: A case study of two streams in the Alaskan (U.S.A.) taiga. <i>Biogeochemistry</i> , 1999, 47, 239-267. | 1.7 | 144 |
| 51 | Nitrogen yields from undisturbed watersheds in the Americas. <i>Biogeochemistry</i> , 1999, 46, 149-162. | 1.7 | 143 |
| 52 | The next generation of site-based long-term ecological monitoring: Linking essential biodiversity variables and ecosystem integrity. <i>Science of the Total Environment</i> , 2018, 613-614, 1376-1384. | 3.9 | 143 |
| 53 | The globalization of N deposition: ecosystem consequences in tropical environments. <i>Biogeochemistry</i> , 1999, 46, 67-83. | 1.7 | 134 |
| 54 | Merging aquatic and terrestrial perspectives of nutrient biogeochemistry. <i>Oecologia</i> , 2003, 137, 485-501. | 0.9 | 134 |

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|----|---|-----|-----------|
| 55 | Twelve testable hypotheses on the geobiology of weathering. <i>Geobiology</i> , 2011, 9, 140-165. | 1.1 | 133 |
| 56 | Riparian nitrogen dynamics in two geomorphologically distinct tropical rain forest watersheds: subsurface solute patterns. <i>Biogeochemistry</i> , 1992, 18, 53-75. | 1.7 | 132 |
| 57 | Biological Nitrogen Fixation in Two Tropical Forests: Ecosystem-Level Patterns and Effects of Nitrogen Fertilization. <i>Ecosystems</i> , 2009, 12, 1299-1315. | 1.6 | 131 |
| 58 | Biodegradable dissolved organic carbon in forest soil solution and effects of chronic nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1743-1751. | 4.2 | 130 |
| 59 | The response of heterotrophic activity and carbon cycling to nitrogen additions and warming in two tropical soils. <i>Global Change Biology</i> , 2010, 16, 2555-2572. | 4.2 | 130 |
| 60 | Effects of chronic nitrogen amendment on dissolved organic matter and inorganic nitrogen in soil solution. <i>Forest Ecology and Management</i> , 2004, 196, 29-41. | 1.4 | 125 |
| 61 | Tracking evolution of urban biogeochemical cycles: past, present, and future. <i>Biogeochemistry</i> , 2014, 121, 1-21. | 1.7 | 122 |
| 62 | Effects of nutrient availability and other elevational changes on bromeliad populations and their invertebrate communities in a humid tropical forest in Puerto Rico. <i>Journal of Tropical Ecology</i> , 2000, 16, 167-188. | 0.5 | 120 |
| 63 | Influence of sea salt aerosols and long range transport on precipitation chemistry at El Verde, Puerto Rico. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 2813-2821. | 1.3 | 113 |
| 64 | Internal nutrient fluxes in a Puerto Rican rain forest. <i>Journal of Tropical Ecology</i> , 1998, 14, 521-536. | 0.5 | 109 |
| 65 | Carbon and nitrogen stoichiometry and nitrogen cycling rates in streams. <i>Oecologia</i> , 2004, 140, 458-467. | 0.9 | 108 |
| 66 | When Wet Gets Wetter: Decoupling of Moisture, Redox Biogeochemistry, and Greenhouse Gas Fluxes in a Humid Tropical Forest Soil. <i>Ecosystems</i> , 2013, 16, 576-589. | 1.6 | 108 |
| 67 | New perspectives in ecotoxicology. <i>Environmental Management</i> , 1984, 8, 375-442. | 1.2 | 104 |
| 68 | Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1998, 105, 175-182. | 1.1 | 104 |
| 69 | Thinking outside the channel: modeling nitrogen cycling in networked river ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 229-238. | 1.9 | 104 |
| 70 | Indirect Upstream Effects Of Dams: Consequences Of Migratory Consumer Extirpation In Puerto Rico. , 2006, 16, 339-352. | | 102 |
| 71 | Salinization of urbanizing New Hampshire streams and groundwater: effects of road salt and hydrologic variability. <i>Journal of the North American Benthological Society</i> , 2009, 28, 929-940. | 3.0 | 102 |
| 72 | LAGOS-NE: a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of US lakes. <i>GigaScience</i> , 2017, 6, 1-22. | 3.3 | 102 |

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|----|--|-----|-----------|
| 73 | Long-term influence of deforestation on tree species composition and litter dynamics of a tropical rain forest in Puerto Rico. <i>Forest Ecology and Management</i> , 1995, 78, 147-157. | 1.4 | 99 |
| 74 | Continental-scale decrease in net primary productivity in streams due to climate warming. <i>Nature Geoscience</i> , 2018, 11, 415-420. | 5.4 | 99 |
| 75 | Seasonal variation of tropical precipitation chemistry: La Selva, Costa Rica. <i>Atmospheric Environment</i> , 1997, 31, 3903-3910. | 1.9 | 97 |
| 76 | Decadal Trends Reveal Recent Acceleration in the Rate of Recovery from Acidification in the Northeastern U.S.. <i>Environmental Science & Technology</i> , 2014, 48, 4681-4689. | 4.6 | 93 |
| 77 | Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. <i>Earth Surface Dynamics</i> , 2017, 5, 841-860. | 1.0 | 92 |
| 78 | Does Anthropogenic Nitrogen Enrichment Increase Organic Nitrogen Concentrations in Runoff from Forested and Human-dominated Watersheds?. <i>Ecosystems</i> , 2006, 9, 852-864. | 1.6 | 90 |
| 79 | Long-term Decreases in Stream Nitrate: Successional Causes Unlikely; Possible Links to DOC?. <i>Ecosystems</i> , 2005, 8, 334-337. | 1.6 | 89 |
| 80 | Surprises and Insights from Long-Term Aquatic Data Sets and Experiments. <i>BioScience</i> , 2012, 62, 709-721. | 2.2 | 89 |
| 81 | LINKING SPECIES AND ECOSYSTEMS: DIFFERENT BIOTIC ASSEMBLAGES CAUSE INTERSTREAM DIFFERENCES IN ORGANIC MATTER. <i>Ecology</i> , 1999, 80, 1860-1872. | 1.5 | 85 |
| 82 | Nitrogen and phosphorus budgets for a tropical watershed impacted by agricultural land use: Guayas, Ecuador. <i>Biogeochemistry</i> , 2006, 79, 135-161. | 1.7 | 84 |
| 83 | Stream geochemistry, chemical weathering and CO ₂ consumption potential of andesitic terrains, Dominica, Lesser Antilles. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 85-103. | 1.6 | 84 |
| 84 | A new framework for selecting environmental surrogates. <i>Science of the Total Environment</i> , 2015, 538, 1029-1038. | 3.9 | 84 |
| 85 | Moisture and substrate availability constrain soil trace gas fluxes in an eastern Amazonian regrowth forest. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a. | 1.9 | 83 |
| 86 | Dissolved organic carbon uptake in streams: A review and assessment of reach-scale measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2019-2029. | 1.3 | 83 |
| 87 | Role of wetlands and developed land use on dissolved organic nitrogen concentrations and DON/TDN in northeastern U.S. rivers and streams. <i>Limnology and Oceanography</i> , 2004, 49, 910-918. | 1.6 | 81 |
| 88 | Two roles for ecological surrogacy: Indicator surrogates and management surrogates. <i>Ecological Indicators</i> , 2016, 63, 121-125. | 2.6 | 79 |
| 89 | Sources and the flux pattern of dissolved carbon in rivers of the Yenisey basin draining the Central Siberian Plateau. <i>Environmental Research Letters</i> , 2011, 6, 045212. | 2.2 | 77 |
| 90 | Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. <i>Nature Geoscience</i> , 2021, 14, 289-294. | 5.4 | 76 |

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|-----|--|-----|-----------|
| 91 | Reducing bias and quantifying uncertainty in watershed flux estimates: the R package loadflex. <i>Ecosphere</i> , 2015, 6, 1-25. | 1.0 | 75 |
| 92 | Chemical constituents in clouds and rainwater in the Puerto Rican rainforest: Potential sources and seasonal drivers. <i>Atmospheric Environment</i> , 2013, 68, 208-220. | 1.9 | 73 |
| 93 | Solute deposition from cloud water to the canopy of a puerto rican montane forest. <i>Atmospheric Environment</i> , 1994, 28, 1773-1780. | 1.9 | 72 |
| 94 | A High-Temperature Catalytic Oxidation Technique for Determining Total Dissolved Nitrogen. <i>Soil Science Society of America Journal</i> , 1996, 60, 1050-1055. | 1.2 | 72 |
| 95 | Predator-prey interactions in river networks: comparing shrimp spatial refugia in two drainage basins. <i>Freshwater Biology</i> , 2009, 54, 450-465. | 1.2 | 72 |
| 96 | Urban Evolution: The Role of Water. <i>Water (Switzerland)</i> , 2015, 7, 4063-4087. | 1.2 | 72 |
| 97 | Foliar free polyamine and inorganic ion content in relation to soil and soil solution chemistry in two fertilized forest stands at the Harvard Forest, Massachusetts. <i>Plant and Soil</i> , 2000, 222, 119-137. | 1.8 | 67 |
| 98 | Summary of Ecosystem-Level Effects of Caribbean Hurricanes. <i>Biotropica</i> , 1991, 23, 373. | 0.8 | 66 |
| 99 | Characterizing nitrogen dynamics, retention and transport in a tropical rainforest stream using an in situ ¹⁵ N addition. <i>Freshwater Biology</i> , 2002, 47, 143-160. | 1.2 | 66 |
| 100 | Long-term patterns and short-term dynamics of stream solutes and suspended sediment in a rapidly weathering tropical watershed. <i>Water Resources Research</i> , 2011, 47, . | 1.7 | 66 |
| 101 | Nitrogen transformations in a small mountain stream. <i>Hydrobiologia</i> , 1985, 124, 129-139. | 1.0 | 64 |
| 102 | Nitrogen yields from undisturbed watersheds in the Americas. <i>Biogeochemistry</i> , 1999, 46, 149-162. | 1.7 | 64 |
| 103 | Effects of hurricane disturbance on stream water concentrations and fluxes in eight tropical forest watersheds of the Luquillo Experimental Forest, Puerto Rico. <i>Journal of Tropical Ecology</i> , 2000, 16, 189-207. | 0.5 | 63 |
| 104 | Consequence of altered nitrogen cycles in the coupled human and ecological system under changing climate: The need for long-term and site-based research. <i>Ambio</i> , 2015, 44, 178-193. | 2.8 | 63 |
| 105 | Sources and Molecular Weight of "Dissolved" Organic Carbon in an Oligotrophic Lake. <i>Oikos</i> , 1984, 42, 1. | 1.2 | 62 |
| 106 | Deconstructing the Effects of Flow on DOC, Nitrate, and Major Ion Interactions Using a High-Frequency Aquatic Sensor Network. <i>Water Resources Research</i> , 2017, 53, 10655-10673. | 1.7 | 62 |
| 107 | Light and flow regimes regulate the metabolism of rivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 3.3 | 62 |
| 108 | Riparian nitrogen dynamics in two geomorphologically distinct tropical rain forest watersheds: nitrous oxide fluxes. <i>Biogeochemistry</i> , 1992, 18, 77-99. | 1.7 | 61 |

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|-----|--|-----|-----------|
| 109 | Long-Term Trends in Stream Nitrate Concentrations and Losses Across Watersheds Undergoing Recovery from Acidification in the Czech Republic. <i>Ecosystems</i> , 2008, 11, 410-425. | 1.6 | 61 |
| 110 | Seasonal observations of surface waters in two Gulf of Maine estuary-plume systems: Relationships between watershed attributes, optical measurements and surface pCO ₂ . <i>Estuarine, Coastal and Shelf Science</i> , 2008, 77, 245-252. | 0.9 | 61 |
| 111 | Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , 2018, 88, 120-138. | 2.4 | 60 |
| 112 | Effects of Hurricane Disturbance on Groundwater Chemistry and Riparian Function in a Tropical Rain Forest. <i>Biotropica</i> , 1996, 28, 577. | 0.8 | 59 |
| 113 | Cross-stream comparison of substrate-specific denitrification potential. <i>Biogeochemistry</i> , 2011, 104, 381-392. | 1.7 | 59 |
| 114 | The origin, composition and rates of organic nitrogen deposition: A missing piece of the nitrogen cycle?. , 2002, , 99-136. | | 59 |
| 115 | A longer vernal window: the role of winter coldness and snowpack in driving spring transitions and lags. <i>Global Change Biology</i> , 2017, 23, 1610-1625. | 4.2 | 57 |
| 116 | Recovery from acidification alters concentrations and fluxes of solutes from Czech catchments. <i>Biogeochemistry</i> , 2017, 132, 251-272. | 1.7 | 57 |
| 117 | Greenhouse gas flux from headwater streams in New Hampshire, USA: Patterns and drivers. <i>Limnology and Oceanography</i> , 2016, 61, S165. | 1.6 | 56 |
| 118 | Critical zone structure controls concentrationâ€¦discharge relationships and solute generation in forested tropical montane watersheds. <i>Water Resources Research</i> , 2017, 53, 6279-6295. | 1.7 | 56 |
| 119 | Dissolved Organic Matter: Linking Soils and Aquatic Systems. <i>Vadose Zone Journal</i> , 2014, 13, 1-4. | 1.3 | 55 |
| 120 | C and N dynamics in the riparian and hyporheic zones of a tropical stream, Luquillo Mountains, Puerto Rico. <i>Journal of the North American Benthological Society</i> , 2000, 19, 199-214. | 3.0 | 54 |
| 121 | Trends in stream nitrogen concentrations for forested reference catchments across the USA. <i>Environmental Research Letters</i> , 2013, 8, 014039. | 2.2 | 54 |
| 122 | The globalization of N deposition: ecosystem consequences in tropical environments. , 1999, , 67-83. | | 52 |
| 123 | Soil microbial biomass and activity in tropical riparian forests. <i>Soil Biology and Biochemistry</i> , 2001, 33, 1339-1348. | 4.2 | 50 |
| 124 | Spectroscopic characterization of hot-water extractable organic matter from soils under four different vegetation types along an elevation gradient in the Wuyi Mountains. <i>Geoderma</i> , 2010, 159, 139-146. | 2.3 | 49 |
| 125 | Concentrationâ€¦Discharge Relations in the Critical Zone: Implications for Resolving Critical Zone Structure, Function, and Evolution. <i>Water Resources Research</i> , 2017, 53, 8654-8659. | 1.7 | 48 |
| 126 | Biotic and abiotic controls on the ecosystem significance of consumer excretion in two contrasting tropical streams. <i>Freshwater Biology</i> , 2010, 55, 2047-2061. | 1.2 | 46 |

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|-----|---|-----|-----------|
| 127 | Quantification of Biodegradable Dissolved Organic Carbon in Soil Solution with Flow-Through Bioreactors. <i>Soil Science Society of America Journal</i> , 1998, 62, 1556-1564. | 1.2 | 45 |
| 128 | Remote sensing of foliar nitrogen in cultivated grasslands of human dominated landscapes. <i>Remote Sensing of Environment</i> , 2015, 167, 88-97. | 4.6 | 45 |
| 129 | An Evaluation of Nitrate, fDOM, and Turbidity Sensors in New Hampshire Streams. <i>Water Resources Research</i> , 2018, 54, 2466-2479. | 1.7 | 45 |
| 130 | You are not always what we think you eat: selective assimilation across multiple whole-stream isotopic tracer studies. <i>Ecology</i> , 2014, 95, 2757-2767. | 1.5 | 44 |
| 131 | Export of Nutrients and Major Ions from Caribbean Catchments. <i>Journal of the North American Benthological Society</i> , 1995, 14, 12-20. | 3.0 | 43 |
| 132 | Extreme weather years drive episodic changes in lake chemistry: implications for recovery from sulfate deposition and long-term trends in dissolved organic carbon. <i>Biogeochemistry</i> , 2016, 127, 353-365. | 1.7 | 43 |
| 133 | Source- and substrate-specific export of dissolved organic matter from permafrost-dominated forested watershed in central Siberia. <i>Global Biogeochemical Cycles</i> , 2007, 21, . | 1.9 | 42 |
| 134 | DOC:NO ₃ ⁻ ratios and NO ₃ ⁻ uptake in forested headwater streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 205-217. | 1.3 | 42 |
| 135 | Mass mortality of a dominant invasive species in response to an extreme climate event: Implications for ecosystem function. <i>Limnology and Oceanography</i> , 2017, 62, 177-188. | 1.6 | 42 |
| 136 | Groundwater-surface water interactions, nutrient fluxes and ecological response in river corridors: Translating science into effective environmental management. <i>Hydrological Processes</i> , 2008, 22, 151-157. | 1.1 | 41 |
| 137 | Nitrogen additions mobilize soil base cations in two tropical forests. <i>Biogeochemistry</i> , 2016, 128, 67-88. | 1.7 | 41 |
| 138 | Wildfires lead to decreased carbon and increased nitrogen concentrations in upland arctic streams. <i>Scientific Reports</i> , 2020, 10, 8722. | 1.6 | 41 |
| 139 | Simplified Version of the Ampoule-Persulfate Method for Determination of Dissolved Organic Carbon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1987, 44, 214-218. | 0.7 | 40 |
| 140 | A nitrogen budget for late-successional hillslope tabonuco forest, Puerto Rico. <i>Biogeochemistry</i> , 1999, 46, 85-108. | 1.7 | 40 |
| 141 | Climatic factors influencing fluxes of dissolved organic carbon from the forest floor in a continuous-permafrost Siberian watershed. <i>Canadian Journal of Forest Research</i> , 2005, 35, 2130-2140. | 0.8 | 40 |
| 142 | Urban influences on the nitrogen cycle in Puerto Rico. <i>Biogeochemistry</i> , 2006, 79, 109-133. | 1.7 | 37 |
| 143 | Spatial and temporal variation of dissolved organic carbon export from gauged and ungauged watersheds of Dee Valley, Scotland: Effect of land cover and C:N. <i>Water Resources Research</i> , 2007, 43, . | 1.7 | 37 |
| 144 | Twenty years apart: Comparisons of DOM uptake during leaf leachate releases to Hubbard Brook Valley streams in 1979 versus 2000. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 37 |

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|-----|--|-----|-----------|
| 145 | Homogenization of dissolved organic matter within a river network occurs in the smallest headwaters. <i>Biogeochemistry</i> , 2019, 143, 85-104. | 1.7 | 37 |
| 146 | Hurricanes, people, and riparian zones: controls on nutrient losses from forested Caribbean watersheds. <i>Forest Ecology and Management</i> , 2001, 154, 443-451. | 1.4 | 36 |
| 147 | Microbial immobilization and mineralization of dissolved organic nitrogen from forest floors. <i>Soil Biology and Biochemistry</i> , 2011, 43, 1742-1745. | 4.2 | 35 |
| 148 | Acidification and Climate Linkages to Increased Dissolved Organic Carbon in High-Elevation Lakes. <i>Water Resources Research</i> , 2018, 54, 5376-5393. | 1.7 | 35 |
| 149 | Experimental nitrogen and phosphorus enrichment stimulates multiple trophic levels of algal and detrital-based food webs: a global meta-analysis from streams and rivers. <i>Biological Reviews</i> , 2021, 96, 692-715. | 4.7 | 35 |
| 150 | Factors Limiting Primary Productivity in Lake Ontario Tributaries Receiving Salmon Migrations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1992, 49, 2377-2385. | 0.7 | 34 |
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