# Martyn N. Futter

List of Publications by Year
in descending order

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|---|---|---|---|
| 245 papers | 14,866 citations | 20817 60 h-index | 26613 107 g-index |
| 253 all docs | 253 docs citations | 253 times ranked | 13100 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Are Agricultural Soils Dumps for Microplastics of Urban Origin?. Environmental Science & Technology, 2016, 50, 10777-10779. | 10.0 | 1,014 |
| 2 | Studies of the effects of microplastics on aquatic organisms: What do we know and where should we focus our efforts in the future?. Science of the Total Environment, 2018, 645, 1029-1039. | 8.0 | 881 |
| 3 | A theoretical assessment of microplastic transport in river catchments and their retention by soils and river sediments. Environmental Sciences: Processes and Impacts, 2016, 18, 1050-1059. | 3.5 | 455 |
| 4 | Patterns and Dynamics of Dissolved Organic Carbon (DOC) in Boreal Streams: The Role of Processes, Connectivity, and Scaling. Ecosystems, 2011, 14, 880-893. | 3.4 | 340 |
| 5 | On the forest coverâ€“water yield debate: from demandâ€•to supplyâ€side thinking. Global Change Biology, 2012, 18, 806-820. | 9.5 | 332 |
| 6 | Resolving the Double Paradox of rapidly mobilized old water with highly variable responses in runoff chemistry. Hydrological Processes, 2004, 18, 185-189. | 2.6 | 300 |
| 7 | Thirtyâ€five years of synchrony in the organic matter concentrations of Swedish rivers explained by variation in flow and sulphate. Global Change Biology, 2008, 14, 1191-1198. | 9.5 | 261 |
| 8 | Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. Environmental Science and Technology Letters, 2016, 3, 430-435. | 8.7 | 257 |
| 9 | Human domination of the global water cycle absent from depictions and perceptions. Nature Geoscience, 2019, 12, 533-540. | 12.9 | 245 |
| 10 | Pollution: Do microplastics spill on to farm soils?. Nature, 2016, 537, 488-488. | 27.8 | 240 |
| 11 | A meta-analysis of the effects of nitrogen additions on base cations: Implications for plants, soils, and streams. Forest Ecology and Management, 2011, 262, 95-104. | 3.2 | 234 |
| 12 | Transfer and transport of microplastics from biosolids to agricultural soils and the wider environment. Science of the Total Environment, 2020, 724, 138334. | 8.0 | 210 |
| 13 | The Krycklan Catchment Study-A flagship infrastructure for hydrology, biogeochemistry, and climate research in the boreal landscape. Water Resources Research, 2013, 49, 7154-7158. | 4.2 | 207 |
| 14 | Perfluoroalkyl substances (PFAS) in river and ground/drinking water of the Ganges River basin: Emissions and implications for human exposure. Environmental Pollution, 2016, 208, 704-713. | 7.5 | 189 |
| 15 | Hydrological flow paths during snowmelt: Congruence between hydrometric measurements and oxygen 18 in meltwater, soil water, and runoff. Water Resources Research, 2004, 40, . | 4.2 | 176 |
| 16 | Evasion of <scp>CO</scp><sub>2</sub> from streams â€“ The dominant component of the carbon export through the aquatic conduit in a boreal landscape. Global Change Biology, 2013, 19, 785-797. | 9.5 | 175 |
| 17 | Modeling the mechanisms that control in-stream dissolved organic carbon dynamics in upland and forested catchments. Water Resources Research, 2007, 43, . | 4.2 | 162 |
| 18 | Landscape-scale variability of acidity and dissolved organic carbon during spring flood in a boreal stream network. Journal of Geophysical Research, 2007, 112, . | 3.3 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Spatial analysis of ice phenology trends across the Laurentian Great Lakes region during a recent warming period. Limnology and Oceanography, 2007, 52, 2013-2026. | 3.1 | 143 |
| 20 | Longevity and effectiveness of aluminum addition to reduce sediment phosphorus release and restore lake water quality. Water Research, 2016, 97, 122-132. | 11.3 | 141 |
| 21 | Dissolved Inorganic Carbon Export Across the Soil/Stream Interface and Its Fate in a Boreal Headwater Stream. Environmental Science & Technology, 2009, 43, 7364-7369. | 10.0 | 138 |
| 22 | Groundwater dynamics along a hillslope: A test of the steady state hypothesis. Water Resources Research, 2003, 39, . | 4.2 | 133 |
| 23 | Dissolved organic carbon characteristics in boreal streams in a forestâ€wetland gradient during the transition between winter and summer. Journal of Geophysical Research, 2008, 113, . | 3.3 | 125 |
| 24 | In-lake measures for phosphorus control: The most feasible and cost-effective solution for long-term management of water quality in urban lakes. Water Research, 2016, 97, 142-152. | 11.3 | 121 |
| 25 | The Swedish monitoring of surface waters: 50Âyears of adaptive monitoring. Ambio, 2014, 43, 3-18. | 5.5 | 120 |
| 26 | THE EFFECT OF EL NIÃ‘O-RELATED DROUGHT ON THE RECOVERY OF ACIDIFIED LAKES. Environmental Monitoring and Assessment, 1997, 46, 105-111. | 2.7 | 117 |
| 27 | Variability in organic carbon reactivity across lake residence time and trophic gradients. Nature Geoscience, 2017, 10, 832-835. | 12.9 | 114 |
| 28 | Impacts of climate change and socio-economic scenarios on flow and water quality of the Ganges, Brahmaputra and Meghna (GBM) river systems: low flow and flood statistics. Environmental Sciences: Processes and Impacts, 2015, 17, 1057-1069. | 3.5 | 109 |
| 29 | Title is missing!. , 2002, 64, 269-281. | | 108 |
| 30 | Is a Universal Model of Organic Acidity Possible:â€‰ Comparison of the Acid/Base Properties of Dissolved Organic Carbon in the Boreal and Temperate Zones. Environmental Science & Technology, 2003, 37, 1726-1730. | 10.0 | 106 |
| 31 | Upscaling Nitrogen Removal Capacity from Local Hotspots to Low Stream Ordersâ€™ Drainage Basins. Ecosystems, 2015, 18, 1101-1120. | 3.4 | 104 |
| 32 | In-Lake Processes Offset Increased Terrestrial Inputs of Dissolved Organic Carbon and Color to Lakes. PLoS ONE, 2013, 8, e70598. | 2.5 | 103 |
| 33 | Spatial Variation of Streamwater Chemistry in Two Swedish Boreal Catchments:â€‰ Implications for Environmental Assessment. Environmental Science & Technology, 2005, 39, 1463-1469. | 10.0 | 101 |
| 34 | Impacts of climate change on hydrology and water quality: Future proofing management strategies in the Lake Simcoe watershed, Canada. Journal of Great Lakes Research, 2013, 39, 19-32. | 1.9 | 101 |
| 35 | Temporal and spatial variability of dissolved inorganic carbon in a boreal stream network: Concentrations and downstream fluxes. Journal of Geophysical Research, 2010, 115, . | 3.3 | 100 |
| 36 | Cold winter soils enhance dissolved organic carbon concentrations in soil and stream water. Geophysical Research Letters, 2010, 37, . | 4.0 | 100 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Terrestrial sources of methylmercury in surface waters: The importance of the riparian zone on the Svartberget Catchment. Water, Air, and Soil Pollution, 1995, 80, 435-444. | 2.4 | 95 |
| 38 | Forest cover change over four decades in the Blue Nile Basin, Ethiopia: comparison of three watersheds. Regional Environmental Change, 2014, 14, 253-266. | 2.9 | 91 |
| 39 | Recent advances in understanding and measurement of mercury in the environment: Terrestrial Hg cycling. Science of the Total Environment, 2020, 721, 137647. | 8.0 | 91 |
| 40 | Effect of Climate Change on Soil Temperature in Swedish Boreal Forests. PLoS ONE, 2014, 9, e93957. | 2.5 | 90 |
| 41 | Microplastics in terrestrial ecosystems: Moving beyond the state of the art to minimize the risk of ecological surprise. Global Change Biology, 2021, 27, 3969-3986. | 9.5 | 88 |
| 42 | Spatial distribution and source tracing of per- and polyfluoroalkyl substances (PFASs) in surface water in Northern Europe. Environmental Pollution, 2017, 220, 1438-1446. | 7.5 | 87 |
| 43 | Long-term dynamics of dissolved organic carbon: Implications for drinking water supply. Science of the Total Environment, 2012, 432, 1-11. | 8.0 | 86 |
| 44 | PERSiST: a flexible rainfall-runoff modelling toolkit for use with the INCA family of models. Hydrology and Earth System Sciences, 2014, 18, 855-873. | 4.9 | 84 |
| 45 | The relative influence of land cover, hydrology, and inâ€stream processing on the composition of dissolved organic matter in boreal streams. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1491-1505. | 3.0 | 84 |
| 46 | Long-term patterns in dissolved organic carbon, major elements and trace metals in boreal headwater catchments: trends, mechanisms and heterogeneity. Biogeosciences, 2013, 10, 2315-2330. | 3.3 | 82 |
| 47 | Multiple sources and sinks of dissolved inorganic carbon across Swedish streams, refocusing the lens of stable C isotopes. Scientific Reports, 2017, 7, 9158. | 3.3 | 81 |
| 48 | Water storage in a till catchment. II: Implications of transmissivity feedback for flow paths and turnover times. Hydrological Processes, 2011, 25, 3950-3959. | 2.6 | 80 |
| 49 | Silicate mineral weathering rate estimates: Are they precise enough to be useful when predicting the recovery of nutrient pools after harvesting?. Forest Ecology and Management, 2011, 261, 1-9. | 3.2 | 76 |
| 50 | Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. Ambio, 2016, 45, 175-187. | 5.5 | 76 |
| 51 | Dynamic modeling of the Ganga river system: impacts of future climate and socio-economic change on flows and nitrogen fluxes in India and Bangladesh. Environmental Sciences: Processes and Impacts, 2015, 17, 1082-1097. | 3.5 | 73 |
| 52 | Primary weathering rates, water transit times, and concentrationâ€discharge relations: A theoretical analysis for the critical zone. Water Resources Research, 2017, 53, 942-960. | 4.2 | 73 |
| 53 | Towards an Improved Conceptualization of Riparian Zones in Boreal Forest Headwaters. Ecosystems, 2018, 21, 297-315. | 3.4 | 71 |
| 54 | Response of Dissolved Organic Carbon following Forest Harvesting in a Boreal Forest. Ambio, 2009, 38, 381-386. | 5.5 | 70 |

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|---|---|---|---|
| 55 | The Effects of Forestry on Hg Bioaccumulation in Nemoral/Boreal Waters and Recommendations for Good Silvicultural Practice. Ambio, 2009, 38, 373-380. | 5.5 | 69 |
| 56 | Consequences of More Intensive Forestry for the Sustainable Management of Forest Soils and Waters. Forests, 2011, 2, 243-260. | 2.1 | 68 |
| 57 | Identification of the riparian sources of aquatic dissolved organic carbon. Environment International, 1994, 20, 11-19. | 10.0 | 67 |
| 58 | Patterns and trends in Southern Ontario lake ice phenology. Environmental Monitoring and Assessment, 2003, 88, 431-444. | 2.7 | 66 |
| 59 | Critical levels of atmospheric pollution: criteria and concepts for operational modelling of mercury in forest and lake ecosystems. Science of the Total Environment, 2003, 304, 83-106. | 8.0 | 66 |
| 60 | Toward catchment hydroâ€biogeochemical theories. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1495. | 6.5 | 65 |
| 61 | Consequences of nitrate leaching following stem-only harvesting of Swedish forests are dependent on spatial scale. Environmental Pollution, 2010, 158, 3552-3559. | 7.5 | 64 |
| 62 | Almost 50Âyears of monitoring shows that climate, not forestry, controls longâ€term organic carbon fluxes in a large boreal watershed. Global Change Biology, 2014, 20, 1225-1237. | 9.5 | 64 |
| 63 | Flux Rates of Atmospheric Lead Pollution within Soils of a Small Catchment in Northern Sweden and Their Implications for Future Stream Water Quality. Environmental Science & Technology, 2006, 40, 4639-4645. | 10.0 | 63 |
| 64 | Cleaning up seas using blue growth initiatives: Mussel farming for eutrophication control in the Baltic Sea. Science of the Total Environment, 2020, 709, 136144. | 8.0 | 63 |
| 65 | Riparian soil temperature modification of the relationship between flow and dissolved organic carbon concentration in a boreal stream. Water Resources Research, 2011, 47, . | 4.2 | 62 |
| 66 | Long-term trends in water chemistry of acid-sensitive Swedish lakes show slow recovery from historic acidification. Ambio, 2014, 43, 77-90. | 5.5 | 62 |
| 67 | An assessment of the fine sediment dynamics in an upland river system: INCA-Sed modifications and implications for fisheries. Science of the Total Environment, 2010, 408, 2555-2566. | 8.0 | 61 |
| 68 | The role of biogeochemical hotspots, landscape heterogeneity, and hydrological connectivity for minimizing forestry effects on water quality. Ambio, 2016, 45, 152-162. | 5.5 | 60 |
| 69 | Persistent and widespread long-term phosphorus declines in Boreal lakes in Sweden. Science of the Total Environment, 2018, 613-614, 240-249. | 8.0 | 60 |
| 70 | Intraâ€annual variability of organic carbon concentrations in running waters: Drivers along a climatic gradient. Global Biogeochemical Cycles, 2014, 28, 451-464. | 4.9 | 59 |
| 71 | Soil frost and runoff at Svartberget, northern Sweden-measurements and model analysis. Hydrological Processes, 2002, 16, 3379-3392. | 2.6 | 58 |
| 72 | Forest Cover and Stream Flow in a Headwater of the Blue Nile: Complementing Observational Data Analysis with Community Perception. Ambio, 2010, 39, 284-294. | 5.5 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | High methylmercury formation in ponds fueled by fresh humic and algal derived organic matter. Limnology and Oceanography, 2018, 63, S44. | 3.1 | 58 |
| 74 | Reviews and syntheses: Biological weathering and its consequences at different spatial levels â€“ from nanoscale to global scale. Biogeosciences, 2020, 17, 1507-1533. | 3.3 | 58 |
| 75 | Total Phosphorus Budgets and Nitrogen Loads: Lake Simcoe, Ontario (1990 to 1998). Journal of Great Lakes Research, 2002, 28, 301-314. | 1.9 | 56 |
| 76 | Impact of Forestry on Total and Methyl-Mercury in Surface Waters: Distinguishing Effects of Logging and Site Preparation. Environmental Science & Technology, 2014, 48, 4690-4698. | 10.0 | 55 |
| 77 | Forest Harvest Increases Runoff Most during Low Flows in Two Boreal Streams. Ambio, 2009, 38, 357-363. | 5.5 | 53 |
| 78 | A classification and regression tree model of controls on dissolved inorganic nitrogen leaching from European forests. Environmental Pollution, 2008, 156, 544-552. | 7.5 | 52 |
| 79 | A cost-effectiveness analysis of water security and water quality: impacts of climate and land-use change on the River Thames system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120413. | 3.4 | 52 |
| 80 | Ecological resilience in lakes and the conjunction fallacy. Nature Ecology and Evolution, 2017, 1, 1616-1624. | 7.8 | 52 |
| 81 | Presence of nanoplastics in rural and remote surface waters. Environmental Research Letters, 2022, 17, 054036. | 5.2 | 52 |
| 82 | Influence of organic acid site density on pH modeling of Swedish lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 1461-1470. | 1.4 | 51 |
| 83 | Mercury cycling in boreal ecosystems: The long-term effect of acid rain constituents on peatland pore water methylmercury concentrations. Geophysical Research Letters, 2001, 28, 1227-1230. | 4.0 | 51 |
| 84 | Riparian zone control on base cation concentration in boreal streams. Biogeosciences, 2013, 10, 3849-3868. | 3.3 | 51 |
| 85 | Managing Swedish forestryâ€™s impact on mercury in fish: Defining the impact and mitigation measures. Ambio, 2016, 45, 163-174. | 5.5 | 50 |
| 86 | Boreal forest riparian zones regulate stream sulfate and dissolved organic carbon. Science of the Total Environment, 2016, 560-561, 110-122. | 8.0 | 50 |
| 87 | Simulating streamflow in ungauged basins under a changing climate: The importance of landscape characteristics. Journal of Hydrology, 2018, 561, 160-178. | 5.4 | 50 |
| 88 | Testing seasonal and long-term controls of streamwater DOC using empirical and process-based modelsâ˜†. Science of the Total Environment, 2008, 407, 698-707. | 8.0 | 49 |
| 89 | Carbon dioxide and methane emissions of Swedish lowâ€order streamsâ€”a national estimate and lessons learnt from more than a decade of observations. Limnology and Oceanography Letters, 2018, 3, 156-167. | 3.9 | 49 |
| 90 | Acid/base character of organic acids in a boreal stream during snowmelt. Water Resources Research, 2001, 37, 1043-1056. | 4.2 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Spatial heterogeneity of the spring flood acid pulse in a boreal stream networkâ˜†. Science of the Total Environment, 2008, 407, 708-722. | 8.0 | 48 |
| 92 | The interactive responses of water quality and hydrology to changes in multiple stressors, and implications for the long-term effective management of phosphorus. Science of the Total Environment, 2013, 454-455, 230-244. | 8.0 | 47 |
| 93 | Patterns and drivers of riverine nitrogen (N) across alpine, subarctic, and boreal Sweden. Biogeochemistry, 2014, 120, 105-120. | 3.5 | 47 |
| 94 | Representative regional sampling of carbon dioxide and methane concentrations in hemiboreal headwater streams reveal underestimates in less systematic approaches. Global Biogeochemical Cycles, 2014, 28, 465-479. | 4.9 | 47 |
| 95 | Increasing Dissolved Organic Carbon Redefines the Extent of Surface Water Acidification and Helps Resolve a Classic Controversy. BioScience, 2011, 61, 614-618. | 4.9 | 46 |
| 96 | Meta-analysis of environmental effects of beaver in relation to artificial dams. Environmental Research Letters, 2017, 12, 113002. | 5.2 | 46 |
| 97 | Global importance of methane emissions from drainage ditches and canals. Environmental Research Letters, 2021, 16, 044010. | 5.2 | 45 |
| 98 | Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. Hydrological Processes, 2021, 35, e14170. | 2.6 | 45 |
| 99 | Mercury evasion from a boreal peatland shortens the timeline for recovery from legacy pollution. Scientific Reports, 2017, 7, 16022. | 3.3 | 44 |
| 100 | A water cycle for the Anthropocene. Hydrological Processes, 2019, 33, 3046-3052. | 2.6 | 44 |
| 101 | Modeling the dissolved organic carbon output from a boreal mire using the convectionâ€dispersion equation: Importance of representing sorption. Water Resources Research, 2008, 44, . | 4.2 | 43 |
| 102 | Stream Nitrate Responds Rapidly to Decreasing Nitrate Deposition. Ecosystems, 2011, 14, 274-286. | 3.4 | 43 |
| 103 | Significant interaction effects from sulfate deposition and climate on sulfur concentrations constitute major controls on methylmercury production in peatlands. Geochimica Et Cosmochimica Acta, 2013, 102, 1-11. | 3.9 | 42 |
| 104 | A long-term simulation of the effects of acidic deposition and climate change on surface water dissolved organic carbon concentrations in a boreal catchment. Hydrology Research, 2009, 40, 291-305. | 2.7 | 41 |
| 105 | Riparian Zone Influence on Stream Water Dissolved Organic Carbon Concentrations at the Swedish Integrated Monitoring Sites. Ambio, 2011, 40, 920-930. | 5.5 | 41 |
| 106 | Variability in spectral absorbance metrics across boreal lake waters. Journal of Environmental Monitoring, 2012, 14, 2643. | 2.1 | 41 |
| 107 | Is the Water Footprint an Appropriate Tool for Forestry and Forest Products: The Fennoscandian Case. Ambio, 2014, 43, 244-256. | 5.5 | 41 |
| 108 | A Review of the Components, Coefficients and Technical Assumptions of Ontario's Lakeshore Capacity Model. Lake and Reservoir Management, 2006, 22, 7-18. | 1.3 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Uncertainty in silicate mineral weathering rate estimates: source partitioning and policy implications. Environmental Research Letters, 2012, 7, 024025. | 5.2 | 40 |
| 110 | Particulate phosphorus and suspended solids losses from small agricultural catchments: Links to stream and catchment characteristics. Science of the Total Environment, 2020, 711, 134616. | 8.0 | 39 |
| 111 | Evolution of soil solution aluminum during transport along a forested boreal hillslope. Journal of Geophysical Research, 2007, 112, . | 3.3 | 38 |
| 112 | Simulating Dissolved Organic Carbon Dynamics at the Swedish Integrated Monitoring Sites with the Integrated Catchments Model for Carbon, INCA-C. Ambio, 2011, 40, 906-919. | 5.5 | 38 |
| 113 | Impact of stump harvest on run-off concentrations of total mercury and methylmercury. Forest Ecology and Management, 2013, 290, 83-94. | 3.2 | 38 |
| 114 | Flows and sediment dynamics in the Ganga River under present and future climate scenarios. Hydrological Sciences Journal, 2018, 63, 763-782. | 2.6 | 38 |
| 115 | Organic carbon in the boreal spring flood from adjacent subcatchments. Environment International, 1996, 22, 535-540. | 10.0 | 37 |
| 116 | The Effects of Forest Harvest Operations on Mercury and Methylmercury in Two Boreal Streams: Relatively Small Changes in the First Two Years prior to Site Preparation. Ambio, 2009, 38, 364-372. | 5.5 | 37 |
| 117 | Modelling phosphorus dynamics in multi-branch river systems: A study of the Black River, Lake Simcoe, Ontario, Canada. Science of the Total Environment, 2011, 412-413, 315-323. | 8.0 | 37 |
| 118 | Forestry Influence by Stump Harvest and Site Preparation on Methylmercury, Total Mercury and Other Stream Water Chemistry Parameters Across a Boreal Landscape. Ecosystems, 2012, 15, 1308-1320. | 3.4 | 36 |
| 119 | Modelling the effects of climate on long-term patterns of dissolved organic carbon concentrations in the surface waters of a boreal catchment. Hydrology and Earth System Sciences, 2008, 12, 437-447. | 4.9 | 35 |
| 120 | Direct and indirect effects of increasing dissolved organic carbon levels on pH in lakes recovering from acidification. Journal of Geophysical Research, 2010, 115, . | 3.3 | 35 |
| 121 | Spatial and temporal variation of THg concentrations in run-off water from 19 boreal catchments, 2000â€“2010. Environmental Pollution, 2012, 164, 102-109. | 7.5 | 35 |
| 122 | Assessing the impacts of climate change and socio-economic changes on flow and phosphorus flux in the Ganga river system. Environmental Sciences: Processes and Impacts, 2015, 17, 1098-1110. | 3.5 | 35 |
| 123 | Modelling the impacts of climate change on flow and nitrate in the River Thames: assessing potential adaptation strategies. Hydrology Research, 2012, 43, 902-916. | 2.7 | 34 |
| 124 | Pelagic food-web structure influences probability of mercury contamination in lake trout (Salvelinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 8.0 | 32 |
| 125 | Currently legislated decreases in nitrogen deposition will yield only limited plant species recovery in European forests. Environmental Research Letters, 2018, 13, 125010. | 5.2 | 32 |
| 126 | An evaluation of high frequency turbidity as a proxy for riverine total phosphorus concentrations. Science of the Total Environment, 2019, 651, 103-113. | 8.0 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | A Novel Environmental Quality Criterion for Acidification in Swedish Lakes â€“ An Application of Studies on the Relationship Between Biota and Water Chemistry. Water, Air and Soil Pollution, 2007, 7, 331-338. | 0.8 | 31 |
| 128 | An INCA model for pathogens in rivers and catchments: Model structure, sensitivity analysis and application to the River Thames catchment, UK. Science of the Total Environment, 2016, 572, 1601-1610. | 8.0 | 31 |
| 129 | Potential impacts of a future Nordic bioeconomy on surface water quality. Ambio, 2020, 49, 1722-1735. | 5.5 | 31 |
| 130 | Assessment of contaminant fate in catchments using a novel integrated hydrobiogeochemical-multimedia fate model. Science of the Total Environment, 2016, 544, 553-563. | 8.0 | 30 |
| 131 | Pipes or chimneys? For carbon cycling in small boreal lakes, precipitation matters most. Limnology and Oceanography Letters, 2018, 3, 275-284. | 3.9 | 30 |
| 132 | Managing Forests for Both Downstream and Downwind Water. Frontiers in Forests and Global Change, 2019, 2, . | 2.3 | 30 |
| 133 | Seasonal and runoff-related changes in total organic carbon concentrations in the River Ã–re, Northern Sweden. Aquatic Sciences, 2008, 70, 21-29. | 1.5 | 29 |
| 134 | Landscape-scale control of carbon budget of Lake Simcoe: A process-based modelling approach. Journal of Great Lakes Research, 2011, 37, 160-165. | 1.9 | 29 |
| 135 | Hydrological change detection using modeling: Half a century of runoff from four rivers in the Blue Nile Basin. Water Resources Research, 2013, 49, 3842-3851. | 4.2 | 29 |
| 136 | Fate and transport of polychlorinated biphenyls (PCBs) in the River Thames catchment â€“ Insights from a coupled multimedia fate and hydrobiogeochemical transport model. Science of the Total Environment, 2016, 572, 1461-1470. | 8.0 | 29 |
| 137 | Gridded climate data products are an alternative to instrumental measurements as inputs to rainfallâ€“runoff models. Hydrological Processes, 2017, 31, 3283-3293. | 2.6 | 29 |
| 138 | Water quality assessment and catchment-scale nutrient flux modeling in the Ramganga River Basin in north India: An application of INCA model. Science of the Total Environment, 2018, 631-632, 201-215. | 8.0 | 29 |
| 139 | Water renewal along the aquatic continuum offsets cumulative retention by lakes: implications for the character of organic carbon in boreal lakes. Aquatic Sciences, 2013, 75, 535-545. | 1.5 | 28 |
| 140 | Paleoecological evidence of major declines in total organic carbon concentrations since the nineteenth century in four nemoboreal lakes. Journal of Paleolimnology, 2011, 45, 507-518. | 1.6 | 27 |
| 141 | Aquatic DOC export from subarctic Atlantic blanket bog in Norway is controlled by seasalt deposition, temperature and precipitation. Biogeochemistry, 2016, 127, 305-321. | 3.5 | 27 |
| 142 | Conceptualizing and communicating management effects on forest water quality. Ambio, 2016, 45, 188-202. | 5.5 | 27 |
| 143 | The Influence of Sulphate Deposition on the Seasonal Variation of Peat Pore Water Methyl Hg in a Boreal Mire. PLoS ONE, 2012, 7, e45547. | 2.5 | 26 |
| 144 | Long-term trends in hydro-climatology of a major Scottish mountain river. Science of the Total Environment, 2009, 407, 4633-4641. | 8.0 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Modelling the long term impact of climate change on the carbon budget of Lake Simcoe, Ontario using INCA-C. Science of the Total Environment, 2012, 414, 387-403. | 8.0 | 25 |
| 146 | Assessing temporal scales and patterns in time series: Comparing methods based on redundancy analysis. Ecological Complexity, 2015, 22, 162-168. | 2.9 | 25 |
| 147 | Modelling ice cover, timing of spring stratification, and end-of-season mixing depth in small Precambrian Shield lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 2134-2142. | 1.4 | 24 |
| 148 | Modelling nitrogen in the YeÅŸilirmak River catchment in Northern Turkey: Impacts of future climate and environmental change and implications for nutrient management. Science of the Total Environment, 2011, 409, 2404-2418. | 8.0 | 24 |
| 149 | Problems with the reconciliation of good ecological status and public participation in the Water Framework Directive. Science of the Total Environment, 2012, 433, 482-490. | 8.0 | 24 |
| 150 | Using the INCA-Hg model of mercury cycling to simulate total and methyl mercury concentrations in forest streams and catchments. Science of the Total Environment, 2012, 424, 219-231. | 8.0 | 24 |
| 151 | Flow pathways and nutrient transport mechanisms drive hydrochemical sensitivity to climate change across catchments with different geology and topography. Hydrology and Earth System Sciences, 2014, 18, 5125-5148. | 4.9 | 24 |
| 152 | Adjacent catchments with similar patterns of land use and climate have markedly different dissolved organic carbon concentration and runoff dynamics. Hydrological Processes, 2014, 28, 1436-1449. | 2.6 | 24 |
| 153 | Stream Dissolved Organic Matter Composition Reflects the Riparian Zone, Not Upslope Soils in Boreal Forest Headwaters. Water Resources Research, 2018, 54, 3896-3912. | 4.2 | 24 |
| 154 | Optimizing land management strategies for maximum improvements in lake dissolved oxygen concentrations. Science of the Total Environment, 2019, 652, 382-397. | 8.0 | 24 |
| 155 | Nature as the â€œNaturalâ€•Goal for Water Management: A Conversation. Ambio, 2009, 38, 209-214. | 5.5 | 23 |
| 156 | Evaluating common drivers for color, iron and organic carbon in Swedish watercourses. Ambio, 2014, 43, 30-44. | 5.5 | 23 |
| 157 | Localâ€•and landscapeâ€scale impacts of clearâ€cuts and climate change on surface water dissolved organic carbon in boreal forests. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2402-2426. | 3.0 | 23 |
| 158 | Relations between organic carbon and methylmercury in humic rich surface waters from Svartberget catchment in northern Sweden. Water, Air, and Soil Pollution, 1995, 80, 971-979. | 2.4 | 22 |
| 159 | Assessing nitrogen dynamics in European ecosystems, integrating measurement and modelling: conclusions. Hydrology and Earth System Sciences, 2004, 8, 846-857. | 4.9 | 22 |
| 160 | The impacts of future climate change and sulphur emission reductions on acidification recovery at Plastic Lake, Ontario. Hydrology and Earth System Sciences, 2008, 12, 383-392. | 4.9 | 22 |
| 161 | Cross-scale ensemble projections of dissolved organic carbon dynamics in boreal forest streams. Climate Dynamics, 2014, 42, 2305-2321. | 3.8 | 22 |
| 162 | Rainfall runoff modelling of the Upper Ganga and Brahmaputra basins using PERSiST. Environmental Sciences: Processes and Impacts, 2015, 17, 1070-1081. | 3.5 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Modelling the effects of changing climate and nitrogen deposition on nitrate dynamics in a Scottish mountain catchment. Hydrology Research, 2009, 40, 153-166. | 2.7 | 21 |
| 164 | Uncertainty assessments and hydrological implications of climate change in two adjacent agricultural catchments of a rapidly urbanizing watershed. Science of the Total Environment, 2014, 473-474, 326-337. | 8.0 | 21 |
| 165 | Optimization of aluminum treatment efficiency to control internal phosphorus loading in eutrophic lakes. Water Research, 2020, 185, 116150. | 11.3 | 21 |
| 166 | Cantilevering vertical tow nets to reduce tow-line-induced zooplankton avoidance. Journal of Plankton Research, 1993, 15, 581-587. | 1.8 | 20 |
| 167 | Modeling stream dissolved organic carbon concentrations during spring flood in the boreal forest: A simple empirical approach for regional predictions. Journal of Geophysical Research, 2010, 115, . | 3.3 | 20 |
| 168 | Phosphorus dynamics across intensively monitored subcatchments in the Beaver River. Inland Waters, 2013, 3, 187-206. | 2.2 | 20 |
| 169 | Impact of Beaver Pond Colonization History on Methylmercury Concentrations in Surface Water. Environmental Science & Technology, 2015, 49, 12679-12687. | 10.0 | 20 |
| 170 | Sensitivity of stream dissolved organic carbon to temperature and discharge: Implications of future climates. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 126-144. | 3.0 | 20 |
| 171 | Landâ€use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. Hydrological Processes, 2020, 34, 4831-4850. | 2.6 | 20 |
| 172 | Spatial and temporal variation in Arctic freshwater chemistryâ€”Reflecting climateâ€induced landscape alterations and a changing template for biodiversity. Freshwater Biology, 2022, 67, 14-29. | 2.4 | 20 |
| 173 | Forest-Water Interactions Under Global Change. Ecological Studies, 2020, , 589-624. | 1.2 | 20 |
| 174 | Simple Models to Estimate Historical and Recent Changes of Total Organic Carbon Concentrations in Lakes. Environmental Science & Technology, 2015, 49, 386-394. | 10.0 | 19 |
| 175 | Modelling metaldehyde in catchments: a River Thames case-study. Environmental Sciences: Processes and Impacts, 2017, 19, 586-595. | 3.5 | 19 |
| 176 | Does the harvest of logging residues and wood ash application affect the mobilization and bioavailability of trace metals?. Forest Ecology and Management, 2017, 383, 61-72. | 3.2 | 19 |
| 177 | Does forest harvest increase the mercury concentrations in fish? Evidence from Swedish lakes. Science of the Total Environment, 2018, 622-623, 1353-1362. | 8.0 | 19 |
| 178 | Drivers of longâ€term invertebrate community stability in changing Swedish lakes. Global Change Biology, 2020, 26, 1259-1270. | 9.5 | 19 |
| 179 | Forests, Forestry and the Water Framework Directive in Sweden: A Trans-Disciplinary Commentary. Forests, 2011, 2, 261-282. | 2.1 | 18 |
| 180 | Parsimonious Model for Simulating Total Mercury and Methylmercury in Boreal Streams Based on Riparian Flow Paths and Seasonality. Environmental Science & Technology, 2015, 49, 7851-7859. | 10.0 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Ecohydrological consequences of tree removal in an urban park evaluated using open data, free software and a minimalist measuring campaign. Science of the Total Environment, 2019, 655, 1495-1504. | 8.0 | 18 |
| 182 | Climate proofing Scottish river basin planning â€“ a future challenge. Environmental Policy and Governance, 2009, 19, 374-387. | 3.7 | 17 |
| 183 | Persistent Organic Pollutants in Streamwater: Influence of Hydrological Conditions and Landscape Type. Environmental Science & Technology, 2016, 50, 7416-7424. | 10.0 | 17 |
| 184 | Modelling study of soil C, N and pH response to air pollution and climate change using European LTER site observations. Science of the Total Environment, 2018, 640-641, 387-399. | 8.0 | 17 |
| 185 | New Insights Into Legacy Phosphorus From Fractionation of Streambed Sediment. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005763. | 3.0 | 17 |
| 186 | Changes in body dimensions of larval Chaoborus in ethanol and formalin. Journal of Plankton Research, 1994, 16, 1601-1608. | 1.8 | 16 |
| 187 | Natural Variability in Lake pH on Seasonal, Interannual and Decadal Time Scales: Implications for Assessment of Human Impact. Environmental Science & Technology, 2008, 42, 5594-5599. | 10.0 | 16 |
| 188 | Sensitivity of pH in a boreal stream network to a potential decrease in base cations caused by forest harvest. Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 1116-1125. | 1.4 | 16 |
| 189 | Assessment of Uncertainty in Long-Term Mass Balances for Acidification Assessments: A MAGIC Model Exercise. Ambio, 2011, 40, 891-905. | 5.5 | 16 |
| 190 | Assessing anthropogenic impact on boreal lakes with historical fish species distribution data and hydrogeochemical modeling. Global Change Biology, 2014, 20, 2752-2764. | 9.5 | 16 |
| 191 | Can recovery from disturbance explain observed declines in total phosphorus in Precambrian Shield catchments?. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1202-1212. | 1.4 | 16 |
| 192 | Water storage dynamics in a till hillslope: the foundation for modeling flows and turnover times. Hydrological Processes, 2017, 31, 4-14. | 2.6 | 16 |
| 193 | Peatland ditch blocking has no effect on dissolved organic matter (<scp>DOM</scp>) quality. Hydrological Processes, 2018, 32, 3891-3906. | 2.6 | 16 |
| 194 | Patterns and predictability in the intra-annual organic carbon variability across the boreal and hemiboreal landscape. Science of the Total Environment, 2015, 520, 260-269. | 8.0 | 15 |
| 195 | Using dry and wet year hydroclimatic extremes to guide future hydrologic projections. Hydrology and Earth System Sciences, 2016, 20, 2811-2825. | 4.9 | 15 |
| 196 | Consequences of intensive forest harvesting on the recovery of Swedish lakes from acidification and on critical load exceedances. Science of the Total Environment, 2017, 603-604, 562-569. | 8.0 | 15 |
| 197 | Lagged rejuvenation of groundwater indicates internal flow structures and hydrological connectivity. Hydrological Processes, 2020, 34, 2176-2189. | 2.6 | 15 |
| 198 | Brownification on hold: What traditional analyses miss in extended surface water records. Water Research, 2021, 203, 117544. | 11.3 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | The Significance of Shifts in Precipitation Patterns: Modelling the Impacts of Climate Change and Glacier Retreat on Extreme Flood Events in Denali National Park, Alaska. PLoS ONE, 2013, 8, e74054. | 2.5 | 15 |
| 200 | Hydrological footprints of urban developments in the Lake Simcoe watershed, Canada: a combined pairedâ€catchment and change detection modelling approach. Hydrological Processes, 2015, 29, 1829-1843. | 2.6 | 14 |
| 201 | Constitution of a catchment virtual observatory for sharing flow and transport models outputs. Journal of Hydrology, 2016, 543, 59-66. | 5.4 | 14 |
| 202 | Soil temperature responses to climate change along a gradient of uplandâ€“riparian transect in boreal forest. Climatic Change, 2017, 143, 27-41. | 3.6 | 14 |
| 203 | Community perceptions of forestâ€“water relationships in the Blue Nile Basin of Ethiopia. Geo Journal, 2014, 79, 605-618. | 3.1 | 13 |
| 204 | A New, Catchment-Scale Integrated Water Quality Model of Phosphorus, Dissolved Oxygen, Biochemical Oxygen Demand and Phytoplankton: INCA-Phosphorus Ecology (PEco). Water (Switzerland), 2021, 13, 723. | 2.7 | 13 |
| 205 | A Comparison of MAGIC and Paleolimnological Predictions of Preindustrial pH for 55 Swedish Lakes. Environmental Science & Technology, 2008, 42, 43-48. | 10.0 | 12 |
| 206 | Conceptual Mini-Catchment Typologies for Testing Dominant Controls of Nutrient Dynamics in Three Nordic Countries. Water (Switzerland), 2020, 12, 1776. | 2.7 | 12 |
| 207 | Significant Emissions From Forest Drainage Ditchesâ€”An Unaccounted Term in Anthropogenic Greenhouse Gas Inventories?. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006478. | 3.0 | 12 |
| 208 | Effect of DEM-smoothing and -aggregation on topographically-based flow directions and catchment boundaries. Journal of Hydrology, 2021, 602, 126717. | 5.4 | 12 |
| 209 | Weathering rates in Swedish forest soils. Biogeosciences, 2019, 16, 4429-4450. | 3.3 | 11 |
| 210 | Dynamic Modelling of the Impact of Climate Change and Power Flow Management Options using STELLA: Application to the Steephill Falls Reservoir, Ontario, Canada. Canadian Water Resources Journal, 2012, 37, 125-148. | 1.2 | 10 |
| 211 | Ecological Instability in Lakes: A Predictable Condition?. Environmental Science & Technology, 2016, 50, 3285-3286. | 10.0 | 10 |
| 212 | Modeling nonlinear responses of DOC transport in boreal catchments in Sweden. Water Resources Research, 2016, 52, 4970-4989. | 4.2 | 9 |
| 213 | Minimal climate change impacts on natural organic matter forecasted for a potable water supply in Ireland. Science of the Total Environment, 2018, 630, 869-877. | 8.0 | 9 |
| 214 | From wicked problem to governable entity? The effects of forestry on mercury in aquatic ecosystems. Forest Policy and Economics, 2018, 90, 90-96. | 3.4 | 9 |
| 215 | Understanding Dissolved Organic Matter Reactivity and Composition in Lakes and Streams Using Proton-Transfer-Reaction Mass Spectrometry (PTR-MS). Environmental Science and Technology Letters, 2018, 5, 739-744. | 8.7 | 9 |
| 216 | Trilemma of Nordicâ€“Baltic Forestryâ€”How to Implement UN Sustainable Development Goals. Sustainability, 2021, 13, 5643. | 3.2 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Longer Growing Seasons Cause Hydrological Regime Shifts in Central European Forests. Forests, 2021, 12, 1656. | 2.1 | 9 |
| 218 | Assessing the potential for sea-based macroalgae cultivation and its application for nutrient removal in the Baltic Sea. Science of the Total Environment, 2022, 839, 156230. | 8.0 | 9 |
| 219 | The effectiveness and resilience of phosphorus management practices in the Lake Simcoe watershed, Ontario, Canada. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2390-2409. | 3.0 | 8 |
| 220 | Simulation of water and chemical transport of chloride from the forest ecosystem to the stream. Environmental Modelling and Software, 2021, 138, 104984. | 4.5 | 8 |
| 221 | Impacts of Droughts and Acidic Deposition on Long-Term Surface Water Dissolved Organic Carbon Concentrations in Upland Catchments in Wales. Frontiers in Environmental Science, 0, 8, . | 3.3 | 8 |
| 222 | Periodic multivariate normal hidden markov models for the analysis of water quality time series. Environmetrics, 2011, 22, 304-317. | 1.4 | 7 |
| 223 | A Hydrological Concept including Lateral Water Flow Compatible with the Biogeochemical Model ForSAFE. Hydrology, 2016, 3, 11. | 3.0 | 7 |
| 224 | Elevated temperature and browning increase dietary methylmercury, but decrease essential fatty acids at the base of lake food webs. Scientific Reports, 2021, 11, 16859. | 3.3 | 7 |
| 225 | A metamodel based on MAGIC to predict the pre-industrial acidity status of surface waters. Aquatic Sciences, 2008, 70, 238-247. | 1.5 | 6 |
| 226 | Modelling impacts of seasonal wastewater treatment plant effluent permits and biosolid substitution for phosphorus management in catchments and river systems. Hydrology Research, 2015, 46, 313-324. | 2.7 | 6 |
| 227 | Development of Aerial Photos and LIDAR Data Approaches to Map Spatial and Temporal Evolution of Ditch Networks in Peat-Dominated Catchments. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, . | 1.0 | 6 |
| 228 | Nutrient Load Mitigation with Wintertime Cover as Estimated by the INCA Model. Water (Switzerland), 2021, 13, 450. | 2.7 | 5 |
| 229 | Soil moisture storage estimation based on steady vertical fluxes under equilibrium. Journal of Hydrology, 2017, 553, 798-804. | 5.4 | 4 |
| 230 | Estimation of p,pâ€™-DDT degradation in soil by modeling and constraining hydrological and biogeochemical controls. Environmental Pollution, 2018, 239, 179-188. | 7.5 | 4 |
| 231 | Statistical models for evaluating suspected artefacts in long-term environmental monitoring data. Environmental Monitoring and Assessment, 2018, 190, 558. | 2.7 | 4 |
| 232 | Future changes in the Dominant Source Layer of riparian lateral water fluxes in a subhumid Mediterranean catchment. Journal of Hydrology, 2021, 595, 126014. | 5.4 | 4 |
| 233 | A 25-year retrospective analysis of factors influencing success of aluminum treatment for lake restoration. Water Research, 2021, 200, 117267. | 11.3 | 4 |
| 234 | Use of stable Mg isotope ratios in identifying the base cation sources of stream water in the boreal Krycklan catchment (Sweden). Chemical Geology, 2022, 588, 120651. | 3.3 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Turbidityâ€discharge hysteresis in a mesoâ€scale catchment: The importance of intermediate scale events. Hydrological Processes, 2021, 35, e14435. | 2.6 | 4 |
| 236 | Hydrology, forests and precipitation recycling: a reply to van der Ent et al. Global Change Biology, 2012, 18, 3272-3274. | 9.5 | 3 |
| 237 | Effects of conservation strip and crop type on natural enemies of <scp>D</scp>elia radicum. Journal of Applied Entomology, 2016, 140, 287-298. | 1.8 | 3 |
| 238 | Variability in fluvial suspended and streambed sediment phosphorus fractions among small agricultural streams. Journal of Environmental Quality, 2021, 50, 612-626. | 2.0 | 3 |
| 239 | Stakeholder Perspectives on Blue Mussel Farming to Mitigate Baltic Sea Eutrophication. Sustainability, 2021, 13, 9180. | 3.2 | 3 |
| 240 | Modelling stream and soil water nitrate dynamics during experimentally increased nitrogen deposition in a coniferous forest catchment at GÃ¥rdsjÃ¶n, Sweden. Hydrology Research, 2009, 40, 187-197. | 2.7 | 2 |
| 241 | Response to a letter to editor regarding Kotta et al. 2020: Cleaning up seas using blue growth initiatives: Mussel farming for eutrophication control in the Baltic Sea. Science of the Total Environment, 2020, 739, 138712. | 8.0 | 2 |
| 242 | Where and When to Collect Tracer Data to Diagnose Hillslope Permeability Architecture. Water Resources Research, 2021, 57, e2020WR028719. | 4.2 | 2 |
| 243 | Influence of the Landscape Template on Chemical and Physical Habitat for Brown Trout Within a Boreal Stream Network. Frontiers in Water, 2021, 3, . | 2.3 | 1 |
| 244 | Commentary: A (Mostly) Hydrological Commentary on the Small Retention Programs in the Polish Forests. , 2019, , 39-43. | | 1 |
| 245 | Stakeholders' Perspectives on Microplastics in Sludge Applied to Agricultural Land. Frontiers in Sustainable Food Systems, 2022, 6, . | 3.9 | 1 |