Martyn N. Futter

List of Publications by Citations

249 papers	10,780 citations	54 h-index	92 g-index
253 ext. papers	12,789 ext. citations	6.5 avg, IF	6.62 L-index

#	Paper	IF	Citations
249	Are Agricultural Soils Dumps for Microplastics of Urban Origin?. *Environmental Science & Technology*, **2016**, 50, 10777-10779	10.3	576
248	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	10.2	538
247	Patterns and Dynamics of Dissolved Organic Carbon (DOC) in Boreal Streams: The Role of Processes, Connectivity, and Scaling. *Ecosystems*, **2011**, 14, 880-893	3.9	281
246	A theoretical assessment of microplastic transport in river catchments and their retention by soils and river sediments. *Environmental Sciences: Processes and Impacts*, **2016**, 18, 1050-9	4.3	266
245	Resolving the Double Paradox of rapidly mobilized old water with highly variable responses in runoff chemistry. *Hydrological Processes*, **2004**, 18, 185-189	3.3	265
244	On the forest cover□water yield debate: from demand- to supply-side thinking. *Global Change Biology*, **2012**, 18, 806-820	11.4	263
243	Thirty-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	11.4	224
242	The Krycklan Catchment Study□A flagship infrastructure for hydrology, biogeochemistry, and climate research in the boreal landscape. *Water Resources Research*, **2013**, 49, 7154-7158	5.4	172
241	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	3.9	163
240	Hydrological flow paths during snowmelt: Congruence between hydrometric measurements and oxygen 18 in meltwater, soil water, and runoff. *Water Resources Research*, **2004**, 40,	5.4	160
239	Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. *Environmental Science and Technology Letters*, **2016**, 3, 430-435	11	158
238	Evasion of CO2 from streams - the dominant component of the carbon export through the aquatic conduit in a boreal landscape. *Global Change Biology*, **2013**, 19, 785-97	11.4	144
237	Modeling the mechanisms that control in-stream dissolved organic carbon dynamics in upland and forested catchments. *Water Resources Research*, **2007**, 43,	5.4	138
236	Landscape-scale variability of acidity and dissolved organic carbon during spring flood in a boreal stream network. *Journal of Geophysical Research*, **2007**, 112,		125
235	Human domination of the global water cycle absent from depictions and perceptions. *Nature Geoscience*, **2019**, 12, 533-540	18.3	124
234	Groundwater dynamics along a hillslope: A test of the steady state hypothesis. *Water Resources Research*, **2003**, 39,	5.4	121
233	Perfluoroalkyl substances (PFAS) in river and ground/drinking water of the Ganges River basin: Emissions and implications for human exposure. *Environmental Pollution*, **2016**, 208, 704-13	9.3	118

232	Dissolved inorganic carbon export across the soil/stream interface and its fate in a boreal headwater stream. *Environmental Science & Technology*, **2009**, 43, 7364-9	10.3	118
231	Pollution: Do microplastics spill on to farm soils?. *Nature*, **2016**, 537, 488	50.4	116
230	Spatial analysis of ice phenology trends across the Laurentian Great Lakes region during a recent warming period. *Limnology and Oceanography*, **2007**, 52, 2013-2026	4.8	110
229	Longevity and effectiveness of aluminum addition to reduce sediment phosphorus release and restore lake water quality. *Water Research*, **2016**, 97, 122-32	12.5	109
228	Dissolved organic carbon characteristics in boreal streams in a forest-wetland gradient during the transition between winter and summer. *Journal of Geophysical Research*, **2008**, 113,		103
227	Is a universal model of organic acidity possible: comparison of the acid/base properties of dissolved organic carbon in the boreal and temperate zones. *Environmental Science & Technology*, **2003**, 37, 1726-30	10.3	98
226	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, 1057-69	4.3	94
225	Transfer and transport of microplastics from biosolids to agricultural soils and the wider environment. *Science of the Total Environment*, **2020**, 724, 138334	10.2	94
224	The Swedish monitoring of surface waters: 50 years of adaptive monitoring. *Ambio*, **2014**, 43 Suppl 1, 3-18	6.5	94
223	Spatial variation of streamwater chemistry in two Swedish boreal catchments: implications for environmental assessment. *Environmental Science & Technology*, **2005**, 39, 1463-9	10.3	93
222	Cold winter soils enhance dissolved organic carbon concentrations in soil and stream water. *Geophysical Research Letters*, **2010**, 37,	4.9	92
221	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, 142-52	12.5	91
220	In-lake processes offset increased terrestrial inputs of dissolved organic carbon and color to lakes. *PLoS ONE*, **2013**, 8, e70598	3.7	90
219	THE EFFECT OF EL NIÑO-RELATED DROUGHT ON THE RECOVERY OF ACIDIFIED LAKES. *Environmental Monitoring and Assessment*, **1997**, 46, 105-111	3.1	87
218	Photochemical and microbial processing of stream and soil water dissolved organic matter in a boreal forested catchment in northern Sweden **2002**, 64, 269-281		86
217	Upscaling Nitrogen Removal Capacity from Local Hotspots to Low Stream Orders' Drainage Basins. *Ecosystems*, **2015**, 18, 1101-1120	3.9	85
216	Temporal and spatial variability of dissolved inorganic carbon in a boreal stream network: Concentrations and downstream fluxes. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		81
215	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	3	80

214	Long-term dynamics of dissolved organic carbon: implications for drinking water supply. *Science of the Total Environment*, **2012**, 432, 1-11	10.2	76
213	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	2.6	73
212	PERSiST: a flexible rainfall-runoff modelling toolkit for use with the INCA family of models. *Hydrology and Earth System Sciences*, **2014**, 18, 855-873	5.5	71
211	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	4.6	70
210	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	3.9	69
209	Variability in organic carbon reactivity across lake residence time and trophic gradients. *Nature Geoscience*, **2017**, 10, 832-835	18.3	68
208	Effect of climate change on soil temperature in Swedish boreal forests. *PLoS ONE*, **2014**, 9, e93957	3.7	68
207	The relative influence of land cover, hydrology, and in-stream processing on the composition of dissolved organic matter in boreal streams. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 1491-1505	3.7	67
206	Water storage in a till catchment. II: Implications of transmissivity feedback for flow paths and turnover times. *Hydrological Processes*, **2011**, 25, 3950-3959	3.3	67
205	Forest cover change over four decades in the Blue Nile Basin, Ethiopia: comparison of three watersheds. *Regional Environmental Change*, **2014**, 14, 253-266	4.3	66
204	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, 1082-97	4.3	65
203	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	10.2	64
202	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, 4639-45	10.3	62
201	Identification of the riparian sources of aquatic dissolved organic carbon. *Environment International*, **1994**, 20, 11-19	12.9	62
200	Spatial distribution and source tracing of per- and polyfluoroalkyl substances (PFASs) in surface water in Northern Europe. *Environmental Pollution*, **2017**, 220, 1438-1446	9.3	59
199	Consequences of More Intensive Forestry for the Sustainable Management of Forest Soils and Waters. *Forests*, **2011**, 2, 243-260	2.8	59
198	Response of dissolved organic carbon following forest harvesting in a boreal forest. *Ambio*, **2009**, 38, 381-6	6.5	58
197	The effects of forestry on Hg bioaccumulation in nemoral/boreal waters and recommendations for good silvicultural practice. *Ambio*, **2009**, 38, 373-80	6.5	57

196	Riparian soil temperature modification of the relationship between flow and dissolved organic carbon concentration in a boreal stream. *Water Resources Research*, **2011**, 47,	5.4	56
195	Multiple sources and sinks of dissolved inorganic carbon across Swedish streams, refocusing the lens of stable C isotopes. *Scientific Reports*, **2017**, 7, 9158	4.9	54
194	Consequences of nitrate leaching following stem-only harvesting of Swedish forests are dependent on spatial scale. *Environmental Pollution*, **2010**, 158, 3552-9	9.3	54
193	Almost 50 years of monitoring shows that climate, not forestry, controls long-term organic carbon fluxes in a large boreal watershed. *Global Change Biology*, **2014**, 20, 1225-37	11.4	53
192	Primary weathering rates, water transit times, and concentration-discharge relations: A theoretical analysis for the critical zone. *Water Resources Research*, **2017**, 53, 942-960	5.4	52
191	Patterns and trends in Southern Ontario lake ice phenology. *Environmental Monitoring and Assessment*, **2003**, 88, 431-44	3.1	52
190	Soil frost and runoff at Svartberget, northern Sweden measurements and model analysis. *Hydrological Processes*, **2002**, 16, 3379-3392	3.3	51
189	Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. *Ambio*, **2016**, 45 Suppl 2, 175-87	6.5	49
188	Forest cover and stream flow in a headwater of the Blue Nile: complementing observational data analysis with community perception. *Ambio*, **2010**, 39, 284-94	6.5	49
187	Intra-annual variability of organic carbon concentrations in running waters: Drivers along a climatic gradient. *Global Biogeochemical Cycles*, **2014**, 28, 451-464	5.9	48
186	Long-term trends in water chemistry of acid-sensitive Swedish lakes show slow recovery from historic acidification. *Ambio*, **2014**, 43 Suppl 1, 77-90	6.5	48
185	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, 2555-66	10.2	48
184	A classification and regression tree model of controls on dissolved inorganic nitrogen leaching from European forests. *Environmental Pollution*, **2008**, 156, 544-52	9.3	47
183	Towards an Improved Conceptualization of Riparian Zones in Boreal Forest Headwaters. *Ecosystems* , **2018**, 21, 297-315	3.9	46
182	The role of biogeochemical hotspots, landscape heterogeneity, and hydrological connectivity for minimizing forestry effects on water quality. *Ambio*, **2016**, 45 Suppl 2, 152-62	6.5	46
181	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	44
180	Influence of organic acid site density on pH modeling of Swedish lakes. *Canadian Journal of Fisheries and Aquatic Sciences*, **1999**, 56, 1461-1470	2.4	44
179	Riparian zone control on base cation concentration in boreal streams. *Biogeosciences*, **2013**, 10, 3849-3868	4.6	43

178	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, 230-44	10.2	42
177	Forest harvest increases runoff most during low flows in two boreal streams. *Ambio*, **2009**, 38, 357-63	6.5	42
176	Testing seasonal and long-term controls of streamwater DOC using empirical and process-based models. *Science of the Total Environment*, **2008**, 407, 698-707	10.2	42
175	Spatial heterogeneity of the spring flood acid pulse in a boreal stream network. *Science of the Total Environment*, **2008**, 407, 708-22	10.2	42
174	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	4.9	42
173	Acid/base character of organic acids in a boreal stream during snowmelt. *Water Resources Research*, **2001**, 37, 1043-1056	5.4	42
172	Cleaning up seas using blue growth initiatives: Mussel farming for eutrophication control in the Baltic Sea. *Science of the Total Environment*, **2020**, 709, 136144	10.2	42
171	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	5.9	41
170	Boreal forest riparian zones regulate stream sulfate and dissolved organic carbon. *Science of the Total Environment*, **2016**, 560-561, 110-22	10.2	41
169	Persistent and widespread long-term phosphorus declines in Boreal lakes in Sweden. *Science of the Total Environment*, **2018**, 613-614, 240-249	10.2	40
168	Impact of forestry on total and methyl-mercury in surface waters: distinguishing effects of logging and site preparation. *Environmental Science & Technology*, **2014**, 48, 4690-8	10.3	40
167	Patterns and drivers of riverine nitrogen (N) across alpine, subarctic, and boreal Sweden. *Biogeochemistry*, **2014**, 120, 105-120	3.8	40
166	Increasing Dissolved Organic Carbon Redefines the Extent of Surface Water Acidification and Helps Resolve a Classic Controversy. *BioScience*, **2011**, 61, 614-618	5.7	40
165	Modeling the dissolved organic carbon output from a boreal mire using the convection-dispersion equation: Importance of representing sorption. *Water Resources Research*, **2008**, 44,	5.4	40
164	Is the water footprint an appropriate tool for forestry and forest products: the Fennoscandian case. *Ambio*, **2014**, 43, 244-56	6.5	39
163	Total Phosphorus Budgets and Nitrogen Loads: Lake Simcoe, Ontario (1990 to 1998). *Journal of Great Lakes Research*, **2002**, 28, 301-314	3	39
162	High methylmercury formation in ponds fueled by fresh humic and algal derived organic matter. *Limnology and Oceanography*, **2018**, 63, S44-S53	4.8	39
161	Stream Nitrate Responds Rapidly to Decreasing Nitrate Deposition. *Ecosystems*, **2011**, 14, 274-286	3.9	37

160	A long-term simulation of the effects of acidic deposition and climate change on surface water dissolved organic carbon concentrations in a boreal catchment **2009**, 40, 291-305		36
159	Managing Swedish forestry's impact on mercury in fish: Defining the impact and mitigation measures. *Ambio*, **2016**, 45 Suppl 2, 163-74	6.5	35
158	Meta-analysis of environmental effects of beaver in relation to artificial dams. *Environmental Research Letters*, **2017**, 12, 113002	6.2	34
157	Carbon dioxide and methane emissions of Swedish low-order streams– national estimate and lessons learnt from more than a decade of observations. *Limnology and Oceanography Letters*, **2018**, 3, 156-167	7.9	34
156	Simulating dissolved organic carbon dynamics at the swedish integrated monitoring sites with the integrated catchments model for carbon, INCA-C. *Ambio*, **2011**, 40, 906-19	6.5	34
155	Evolution of soil solution aluminum during transport along a forested boreal hillslope. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		34
154	Spatial and temporal variation of THg concentrations in run-off water from 19 boreal catchments, 2000-2010. *Environmental Pollution*, **2012**, 164, 102-9	9.3	33
153	Uncertainty in silicate mineral weathering rate estimates: source partitioning and policy implications. *Environmental Research Letters*, **2012**, 7, 024025	6.2	33
152	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	5.5	32
151	Impact of stump harvest on run-off concentrations of total mercury and methylmercury. *Forest Ecology and Management*, **2013**, 290, 83-94	3.9	32
150	Riparian zone influence on stream water dissolved organic carbon concentrations at the Swedish integrated monitoring sites. *Ambio*, **2011**, 40, 920-30	6.5	32
149	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	32
148	Ecological resilience in lakes and the conjunction fallacy. *Nature Ecology and Evolution*, **2017**, 1, 1616-1624	12.3	31
147	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	5.5	31
146	Organic carbon in the boreal spring flood from adjacent subcatchments. *Environment International*, **1996**, 22, 535-540	12.9	31
145	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, 1098-110	4.3	30
144	Recent advances in understanding and measurement of mercury in the environment: Terrestrial Hg cycling. *Science of the Total Environment*, **2020**, 721, 137647	10.2	29
143	Mercury evasion from a boreal peatland shortens the timeline for recovery from legacy pollution. *Scientific Reports*, **2017**, 7, 16022	4.9	29

142	Variability in spectral absorbance metrics across boreal lake waters. *Journal of Environmental Monitoring*, **2012**, 14, 2643-52		29
141	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, 315-23	10.2	29
140	Direct and indirect effects of increasing dissolved organic carbon levels on pH in lakes recovering from acidification. *Journal of Geophysical Research*, **2010**, 115,		29
139	A Novel Environmental Quality Criterion for Acidification in Swedish Lakes An Application of Studies on the Relationship Between Biota and Water Chemistry. *Water, Air and Soil Pollution*, **2007**, 7, 331-338		29
138	Reviews and syntheses: Biological weathering and its consequences at different spatial levels from nanoscale to global scale. *Biogeosciences*, **2020**, 17, 1507-1533	4.6	29
137	A water cycle for the Anthropocene. *Hydrological Processes*, **2019**, 33, 3046-3052	3.3	28
136	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	5.4	28
135	Modelling the impacts of climate change on flow and nitrate in the River Thames: assessing potential adaptation strategies **2012**, 43, 902-916		28
134	Pelagic food-web structure influences probability of mercury contamination in lake trout (Salvelinus namaycush). *Science of the Total Environment*, **1994**, 145, 7-12	10.2	28
133	Simulating streamflow in ungauged basins under a changing climate: The importance of landscape characteristics. *Journal of Hydrology*, **2018**, 561, 160-178	6	27
132	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, 364-72	6.5	27
131	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	3.9	26
130	Direct Impacts of Climate Change on Freshwater Ecosystems **2010**, 38-64		26
129	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	2.5	25
128	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	2.1	25
127	Seasonal and runoff-related changes in total organic carbon concentrations in the River e, Northern Sweden. *Aquatic Sciences*, **2008**, 70, 21-29	2.5	25
126	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	10.2	25
125	Landscape-scale control of carbon budget of Lake Simcoe: A process-based modelling approach. *Journal of Great Lakes Research*, **2011**, 37, 160-165	3	24

124	Long-term trends in hydro-climatology of a major Scottish mountain river. *Science of the Total Environment*, **2009**, 407, 4633-41	10.2	24
123	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	10.2	23
122	Assessment of contaminant fate in catchments using a novel integrated hydrobiogeochemical-multimedia fate model. *Science of the Total Environment*, **2016**, 544, 553-63	10.2	23
121	Problems with the reconciliation of good ecological status and public participation in the Water Framework Directive. *Science of the Total Environment*, **2012**, 433, 482-90	10.2	23
120	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	10.2	22
119	Gridded climate data products are an alternative to instrumental measurements as inputs to rainfallEunoff models. *Hydrological Processes*, **2017**, 31, 3283-3293	3.3	22
118	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	2.6	22
117	Toward catchment hydro-biogeochemical theories. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1495	5.7	22
116	Flows and sediment dynamics in the Ganga River under present and future climate scenarios. *Hydrological Sciences Journal*, **2018**, 63, 763-782	3.5	21
115	Conceptualizing and communicating management effects on forest water quality. *Ambio*, **2016**, 45 Suppl 2, 188-202	6.5	21
114	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, 219-31	10.2	21
113	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	5.5	21
112	Evaluating common drivers for color, iron and organic carbon in Swedish watercourses. *Ambio*, **2014** , 43 Suppl 1, 30-44	6.5	21
111	Nature as the "natural" goal for water management: a conversation. *Ambio*, **2009**, 38, 209-14	6.5	21
110	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	2.4	21
109	Fate and transport of polychlorinated biphenyls (PCBs) in the River Thames catchment - Insights from a coupled multimedia fate and hydrobiogeochemical transport model. *Science of the Total Environment*, **2016**, 572, 1461-1470	10.2	20
108	Cross-scale ensemble projections of dissolved organic carbon dynamics in boreal forest streams. *Climate Dynamics*, **2014**, 42, 2305-2321	4.2	20
107	Modelling the effects of changing climate and nitrogen deposition on nitrate dynamics in a Scottish mountain catchment **2009**, 40, 153-166		20

106	Assessing nitrogen dynamics in European ecosystems, integrating measurement and modelling: conclusions. *Hydrology and Earth System Sciences*, **2004**, 8, 846-857	5.5	20
105	An evaluation of high frequency turbidity as a proxy for riverine total phosphorus concentrations. *Science of the Total Environment*, **2019**, 651, 103-113	10.2	20
104	Rainfall runoff modelling of the Upper Ganga and Brahmaputra basins using PERSiST. *Environmental Sciences: Processes and Impacts*, **2015**, 17, 1070-81	4.3	19
103	Aquatic DOC export from subarctic Atlantic blanket bog in Norway is controlled by seasalt deposition, temperature and precipitation. *Biogeochemistry*, **2016**, 127, 305-321	3.8	19
102	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	3.3	19
101	The influence of sulphate deposition on the seasonal variation of peat pore water methyl Hg in a boreal mire. *PLoS ONE*, **2012**, 7, e45547	3.7	19
100	Modelling nitrogen in the Yeşilırmak River catchment in Northern Turkey: impacts of future climate and environmental change and implications for nutrient management. *Science of the Total Environment*, **2011**, 409, 2404-18	10.2	19
99	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	11.4	19
98	Sensitivity of stream dissolved organic carbon to temperature and discharge: Implications of future climates. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 126-144	3.7	19
97	Currently legislated decreases in nitrogen deposition will yield only limited plant species recovery in European forests. *Environmental Research Letters*, **2018**, 13, 125010	6.2	19
96	Modelling metaldehyde in catchments: a River Thames case-study. *Environmental Sciences: Processes and Impacts*, **2017**, 19, 586-595	4.3	18
95	Simple models to estimate historical and recent changes of total organic carbon concentrations in lakes. *Environmental Science & Technology*, **2015**, 49, 386-94	10.3	18
94	Pipes or chimneys? For carbon cycling in small boreal lakes, precipitation matters most. *Limnology and Oceanography Letters*, **2018**, 3, 275-284	7.9	18
93	Local- and landscape-scale impacts of clear-cuts and climate change on surface water dissolved organic carbon in boreal forests. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 2402-2426	3.7	18
92	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	5.5	18
91	Cantilevering vertical tow nets to reduce tow-line-induced zooplankton avoidance. *Journal of Plankton Research*, **1993**, 15, 581-587	2.2	18
90	Particulate phosphorus and suspended solids losses from small agricultural catchments: Links to stream and catchment characteristics. *Science of the Total Environment*, **2020**, 711, 134616	10.2	17
89	Persistent Organic Pollutants in Streamwater: Influence of Hydrological Conditions and Landscape Type. *Environmental Science & Technology*, **2016**, 50, 7416-24	10.3	16

88	Stream Dissolved Organic Matter Composition Reflects the Riparian Zone, Not Upslope Soils in Boreal Forest Headwaters. *Water Resources Research*, **2018**, 54, 3896-3912	5.4	16
87	Managing Forests for Both Downstream and Downwind Water. *Frontiers in Forests and Global Change*, **2019**, 2,	3.7	16
86	Assessing temporal scales and patterns in time series: Comparing methods based on redundancy analysis. *Ecological Complexity*, **2015**, 22, 162-168	2.6	16
85	Assessing anthropogenic impact on boreal lakes with historical fish species distribution data and hydrogeochemical modeling. *Global Change Biology*, **2014**, 20, 2752-64	11.4	16
84	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	2.4	16
83	Natural variability in lake pH on seasonal, interannual and decadal time scales: implications for assessment of human impact. *Environmental Science & Technology*, **2008**, 42, 5594-9	10.3	16
82	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, 326-37	10.2	15
81	Phosphorus dynamics across intensively monitored subcatchments in the Beaver River. *Inland Waters*, **2013**, 3, 187-206	2.4	15
80	Forests, Forestry and the Water Framework Directive in Sweden: A Trans-Disciplinary Commentary. *Forests*, **2011**, 2, 261-282	2.8	15
79	Assessment of uncertainty in long-term mass balances for acidification assessments: a MAGIC model exercise. *Ambio*, **2011**, 40, 891-905	6.5	15
78	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,		15
77	Climate proofing Scottish river basin planning future challenge. *Environmental Policy and Governance*, **2009**, 19, 374-387	2.6	15
76	Potential impacts of a future Nordic bioeconomy on surface water quality. *Ambio*, **2020**, 49, 1722-1735	6.5	15
75	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	3.9	14
74	Water storage dynamics in a till hillslope: the foundation for modeling flows and turnover times. *Hydrological Processes*, **2017**, 31, 4-14	3.3	14
73	Optimizing land management strategies for maximum improvements in lake dissolved oxygen concentrations. *Science of the Total Environment*, **2019**, 652, 382-397	10.2	14
72	Impact of Beaver Pond Colonization History on Methylmercury Concentrations in Surface Water. *Environmental Science & Technology*, **2015**, 49, 12679-87	10.3	13
71	Parsimonious Model for Simulating Total Mercury and Methylmercury in Boreal Streams Based on Riparian Flow Paths and Seasonality. *Environmental Science & Technology*, **2015**, 49, 7851-9	10.3	13

70	Changes in body dimensions of larval Chaoborus in ethanol and formalin. *Journal of Plankton Research*, **1994**, 16, 1601-1608	2.2	13
69	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	2.4	13
68	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	10.2	13
67	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	10.2	12
66	Patterns and predictability in the intra-annual organic carbon variability across the boreal and hemiboreal landscape. *Science of the Total Environment*, **2015**, 520, 260-9	10.2	12
65	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	3.7	12
64	Using dry and wet year hydroclimatic extremes to guide future hydrologic projections. *Hydrology and Earth System Sciences*, **2016**, 20, 2811-2825	5.5	12
63	Soil temperature responses to climate change along a gradient of upland–riparian transect in boreal forest. *Climatic Change*, **2017**, 143, 27-41	4.5	11
62	Does forest harvest increase the mercury concentrations in fish? Evidence from Swedish lakes. *Science of the Total Environment*, **2018**, 622-623, 1353-1362	10.2	11
61	Constitution of a catchment virtual observatory for sharing flow and transport models outputs. *Journal of Hydrology*, **2016**, 543, 59-66	6	11
60	A comparison of MAGIC and paleolimnological predictions of preindustrial pH for 55 Swedish lakes. *Environmental Science & Technology*, **2008**, 42, 43-8	10.3	11
59	Optimization of aluminum treatment efficiency to control internal phosphorus loading in eutrophic lakes. *Water Research*, **2020**, 185, 116150	12.5	11
58	Hydrological footprints of urban developments in the Lake Simcoe watershed, Canada: a combined paired-catchment and change detection modelling approach. *Hydrological Processes*, **2015**, 29, 1829-1843	3.3	10
57	Community perceptions of forest–water relationships in the Blue Nile Basin of Ethiopia. *Geo Journal*, **2014**, 79, 605-618	2.2	9
56	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	10.2	9
55	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	1.7	9
54	Drivers of long-term invertebrate community stability in changing Swedish lakes. *Global Change Biology*, **2020**, 26, 1259-1270	11.4	9
53	Global importance of methane emissions from drainage ditches and canals. *Environmental Research Letters*, **2021**, 16, 044010	6.2	9

52	Ecological Instability in Lakes: A Predictable Condition?. *Environmental Science & Technology*, **2016**, 50, 3285-6	10.3	8
51	Weathering rates in Swedish forest soils. *Biogeosciences*, **2019**, 16, 4429-4450	4.6	8
50	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	11	8
49	Lagged rejuvenation of groundwater indicates internal flow structures and hydrological connectivity. *Hydrological Processes*, **2020**, 34, 2176-2189	3.3	7
48	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	3.7	7
47	Modeling nonlinear responses of DOC transport in boreal catchments in Sweden. *Water Resources Research*, **2016**, 52, 4970-4989	5.4	7
46	PERSiST: the precipitation, evapotranspiration and runoff simulator for solute transport		7
45	Land-use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. *Hydrological Processes*, **2020**, 34, 4831-4850	3.3	7
44	Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. *Hydrological Processes*, **2021**, 35, e14170	3.3	7
43	New Insights Into Legacy Phosphorus From Fractionation of Streambed Sediment. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2020JG005763	3.7	6
42	A Hydrological Concept including Lateral Water Flow Compatible with the Biogeochemical Model ForSAFE. *Hydrology*, **2016**, 3, 11	2.8	6
41	Spatial and temporal variation in Arctic freshwater chemistry reflecting climate-induced landscape alterations and a changing template for biodiversity. *Freshwater Biology*, **2020**,	3.1	5
40	Conceptual Mini-Catchment Typologies for Testing Dominant Controls of Nutrient Dynamics in Three Nordic Countries. *Water (Switzerland)*, **2020**, 12, 1776	3	5
39	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	10.2	5
38	From wicked problem to governable entity? The effects of forestry on mercury in aquatic ecosystems. *Forest Policy and Economics*, **2018**, 90, 90-96	3.6	5
37	Periodic multivariate normal hidden markov models for the analysis of water quality time series. *Environmetrics*, **2011**, 22, 304-317	1.3	5
36	Interaction of Climate Change and Acid Deposition **2010**, 152-179		5
35	Forest-Water Interactions Under Global Change. *Ecological Studies*, **2020**, 589-624	1.1	5

34	Peatland ditch blocking has no effect on dissolved organic matter (DOM) quality. *Hydrological Processes*, **2018**, 32, 3891-3906	3.3	5
33	Modelling impacts of seasonal wastewater treatment plant effluent permits and biosolid substitution for phosphorus management in catchments and river systems **2015**, 46, 313-324		4
32	A metamodel based on MAGIC to predict the pre-industrial acidity status of surface waters. *Aquatic Sciences*, **2008**, 70, 238-247	2.5	4
31	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	3	4
30	Effect of DEM-smoothing and -aggregation on topographically-based flow directions and catchment boundaries. *Journal of Hydrology*, **2021**, 602, 126717	6	4
29	Estimation of p,p'-DDT degradation in soil by modeling and constraining hydrological and biogeochemical controls. *Environmental Pollution*, **2018**, 239, 179-188	9.3	3
28	Soil moisture storage estimation based on steady vertical fluxes under equilibrium. *Journal of Hydrology*, **2017**, 553, 798-804	6	3
27	Hydrology, forests and precipitation recycling: a reply to van der Ent et al. *Global Change Biology*, **2012**, 18, 3272-3274	11.4	3
26	Impacts of Droughts and Acidic Deposition on Long-Term Surface Water Dissolved Organic Carbon Concentrations in Upland Catchments in Wales. *Frontiers in Environmental Science*,8,	4.8	3
25	Modelling the effects of climate on long-term patterns of dissolved organic carbon concentrations in the surface waters of a boreal catchment		3
24	Statistical models for evaluating suspected artefacts in long-term environmental monitoring data. *Environmental Monitoring and Assessment*, **2018**, 190, 558	3.1	3
23	Elevated temperature and browning increase dietary methylmercury, but decrease essential fatty acids at the base of lake food webs. *Scientific Reports*, **2021**, 11, 16859	4.9	3
22	Presence of nanoplastics in rural and remote surface waters. *Environmental Research Letters*, **2022**, 17, 054036	6.2	3
21	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, 04021006	1.1	2
20	Simulation of water and chemical transport of chloride from the forest ecosystem to the stream. *Environmental Modelling and Software*, **2021**, 138, 104984	5.2	2
19	A 25-year retrospective analysis of factors influencing success of aluminum treatment for lake restoration. *Water Research*, **2021**, 200, 117267	12.5	2
18	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	10.2	1
17	Longer Growing Seasons Cause Hydrological Regime Shifts in Central European Forests. *Forests*, **2021**, 12, 1656	2.8	1

16	Riparian zone controls on base cation concentrations in boreal streams		1
15	Long term patterns in dissolved organic carbon, major elements and trace metals in boreal headwater catchments: trends, mechanisms and heterogeneity		1
14	Effects of conservation strip and crop type on natural enemies of Delia radicum. *Journal of Applied Entomology*, **2016**, 140, 287-298	1.7	1
13	Brownification on hold: What traditional analyses miss in extended surface water records. *Water Research*, **2021**, 203, 117544	12.5	1
12	Significant Emissions From Forest Drainage Ditches: An Unaccounted Term in Anthropogenic Greenhouse Gas Inventories?. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2021JG006478	3.7	1
11	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	4.2	0
10	Turbidity-discharge hysteresis in a meso-scale catchment: The importance of intermediate scale events. *Hydrological Processes*, **2021**, 35, e14435	3.3	0
9	Future changes in the Dominant Source Layer of riparian lateral water fluxes in a subhumid Mediterranean catchment. *Journal of Hydrology*, **2021**, 595, 126014	6	0
8	Trilemma of Nordic-Baltic Forestry: How to Implement UN Sustainable Development Goals. *Sustainability*, **2021**, 13, 5643	3.6	0
7	Nutrient Load Mitigation with Wintertime Cover as Estimated by the INCA Model. *Water (Switzerland)*, **2021**, 13, 450	3	0
6	Stakeholder Perspectives on Blue Mussel Farming to Mitigate Baltic Sea Eutrophication. *Sustainability*, **2021**, 13, 9180	3.6	0
5	Where and When to Collect Tracer Data to Diagnose Hillslope Permeability Architecture. *Water Resources Research*, **2021**, 57, e2020WR028719	5.4	0
4	Assessing the potential for sea-based macroalgae cultivation and its application for nutrient removal in the Baltic Sea. *Science of the Total Environment*, **2022**, 156230	10.2	0
3	Modelling stream and soil water nitrate dynamics during experimentally increased nitrogen deposition in a coniferous forest catchment at Gårdsjön, Sweden **2009**, 40, 187-197		
2	Commentary: A (Mostly) Hydrological Commentary on the Small Retention Programs in the Polish Forests **2019**, 39-43		
1	Variability in fluvial suspended and streambed sediment phosphorus fractions among small agricultural streams. *Journal of Environmental Quality*, **2021**, 50, 612-626	3.4	