Hjalmar Laudon

List of Publications by Year in Descending Order

335 papers	14,460 citations	62 h-index	102 g-index
386 ext. papers	16,925 ext. citations	6 avg, IF	6.68 L-index

#	Paper	IF	Citations
335	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
334	Current water quality guidelines across North America and Europe do not protect lakes from salinization.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	3
333	Global Patterns and Controls of Nutrient Immobilization on Decomposing Cellulose in Riverine Ecosystems. *Global Biogeochemical Cycles*, **2022**, 36,	5.9	1
332	Overstory dynamics regulate the spatial variability in forest-floor CO2 fluxes across a managed boreal forest landscape. *Agricultural and Forest Meteorology*, **2022**, 318, 108916	5.8	0
331	Expert assessment of landscape-level conservation strategies in boreal forests for biodiversity, recreation and water quality. *Journal for Nature Conservation*, **2022**, 67, 126180	2.3	0
330	Reconciling the Carbon Balance of Northern Sweden Through Integration of Observations and Modelling. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2021JD035185	4.4	0
329	The undetected loss of aged carbon from boreal mineral soils. *Scientific Reports*, **2021**, 11, 6202	4.9	
328	Assessment of a portable UV-Vis spectrophotometer's performance in remote areas: Stream water DOC, Fe content and spectral data. *Data in Brief*, **2021**, 35, 106747	1.2	1
327	Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. *Hydrological Processes*, **2021**, 35, e14170	3.3	7
326	How catchment characteristics influence hydrological pathways and travel times in a boreal landscape. *Hydrology and Earth System Sciences*, **2021**, 25, 2133-2158	5.5	6
325	Impacts of litter decay on organic leachate composition and reactivity. *Biogeochemistry*, **2021**, 154, 99-1178	3.8	4
324	How tree species, tree size, and topographical location influenced tree transpiration in northern boreal forests during the historic 2018 drought. *Global Change Biology*, **2021**, 27, 3066-3078	11.4	4
323	SITES AquaNet: An open infrastructure for mesocosm experiments with high frequency sensor monitoring across lakes. *Limnology and Oceanography: Methods*, **2021**, 19, 385-400	2.6	3
322	Peatland drainage - a missing link behind increasing TOC concentrations in waters from high latitude forest catchments?. *Science of the Total Environment*, **2021**, 774, 145150	10.2	14
321	Lake Outflow and Hillslope Lateral Inflows Dictate Thermal Regimes of Forested Streams Draining Small Lakes. *Water Resources Research*, **2021**, 57, e2020WR028136	5.4	3
320	Assessment of a portable UV-Vis spectrophotometer's performance for stream water DOC and Fe content monitoring in remote areas. *Talanta*, **2021**, 224, 121919	6.2	2
319	Multiple stressors in small streams in the forestry context of Fennoscandia: The effects in time and space. *Science of the Total Environment*, **2021**, 756, 143521	10.2	3

318	Isotopic Branchpoints: Linkages and Efficiencies in Carbon and Water Budgets. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2020JG006043	3.7	
317	Functionally reversible impacts of disturbances on lake food webs linked to spatial and seasonal dependencies. *Ecology*, **2021**, 102, e03283	4.6	5
316	Moving towards multi-layered, mixed-species forests in riparian buffers will enhance their long-term function in boreal landscapes. *Forest Ecology and Management*, **2021**, 493, 119254	3.9	2
315	Integrating Discharge-Concentration Dynamics Across Carbon Forms in a Boreal Landscape. *Water Resources Research*, **2021**, 57, e2020WR028806	5.4	3
314	Where and When to Collect Tracer Data to Diagnose Hillslope Permeability Architecture. *Water Resources Research*, **2021**, 57, e2020WR028719	5.4	0
313	Preface: Linking landscape organisation and hydrological functioning: from hypotheses and observations to concepts, models and understanding. *Hydrology and Earth System Sciences*, **2021**, 25, 5277-5285	5.5	0
312	Hydrological control of water quality - Modelling base cation weathering and dynamics across heterogeneous boreal catchments. *Science of the Total Environment*, **2021**, 799, 149101	10.2	1
311	Use of multiple LIDAR-derived digital terrain indices and machine learning for high-resolution national-scale soil moisture mapping of the Swedish forest landscape. *Geoderma*, **2021**, 404, 115280	6.7	7
310	From Haymaking to Wood Production: Past Use of Mires in Northern Sweden Affect Current Ecosystem Services and Function. *Rural Landscapes*, **2021**, 8,	1.8	2
309	From legacy effects of acid deposition in boreal streams to future environmental threats. *Environmental Research Letters*, **2021**, 16, 015007	6.2	5
308	Stable isotopes of water reveal differences in plant–soil water relationships across northern environments. *Hydrological Processes*, **2021**, 35, e14023	3.3	11
307	The role of the understory in litter DOC and nutrient leaching in boreal forests. *Biogeochemistry*, **2020**, 149, 87-103	3.8	9
306	Discrete groundwater inflows influence patterns of nitrogen uptake in a boreal headwater stream. *Freshwater Science*, **2020**, 39, 228-240	2	3
305	Partitioning growing season water balance within a forested boreal catchment using sap flux, eddy covariance, and a process-based model. *Hydrology and Earth System Sciences*, **2020**, 24, 2999-3014	5.5	7
304	Changing Source-Transport Dynamics Drive Differential Browning Trends in a Boreal Stream Network. *Water Resources Research*, **2020**, 56, e2019WR026336	5.4	9
303	Groundwater Carbon Within a Boreal Catchment: Spatiotemporal Variability of a Hidden Aquatic Carbon Pool. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005244	3.7	2
302	Drought alters the biogeochemistry of boreal stream networks. *Nature Communications*, **2020**, 11, 1795	17.4	16
301	Policy change implications for forest water protection in Sweden over the last 50 years. *Ambio*, **2020**, 49, 1341-1351	6.5	10

300	Detecting Cultural Remains in Boreal Forests in Sweden Using Airborne Laser Scanning Data of Different Resolutions. *Journal of Field Archaeology*, **2020**, 45, 16-28	2	8
299	Forest streams are important sources for nitrous oxide emissions. *Global Change Biology*, **2020**, 26, 629-641	11.4	13
298	The concentrations and characteristics of dissolved organic matter in high-latitude lakes determine its ambient reducing capacity. *Water Research*, **2020**, 169, 115217	12.5	14
297	The Net Landscape Carbon Balance-Integrating terrestrial and aquatic carbon fluxes in a managed boreal forest landscape in Sweden. *Global Change Biology*, **2020**, 26, 2353	11.4	14
296	A carbon mass-balance budget for a periglacial catchment in West Greenland - Linking the terrestrial and aquatic systems. *Science of the Total Environment*, **2020**, 711, 134561	10.2	0
295	Contrasting storage-flux-age interactions revealed by catchment inter-comparison using a tracer-aided runoff model. *Journal of Hydrology*, **2020**, 590, 125226	6	3
294	Heterogeneous CO2 and CH4 patterns across space and time in a small boreal lake. *Inland Waters*, **2020**, 10, 348-359	2.4	7
293	Trees in African drylands can promote deep soil and groundwater recharge in a future climate with more intense rainfall. *Land Degradation and Development*, **2020**, 31, 81-95	4.4	5
292	Browning of freshwaters: Consequences to ecosystem services, underlying drivers, and potential mitigation measures. *Ambio*, **2020**, 49, 375-390	6.5	62
291	Are dissolved organic carbon concentrations in riparian groundwater linked to hydrological pathways in the boreal forest?. *Hydrology and Earth System Sciences*, **2020**, 24, 1709-1720	5.5	10
290	From ecological knowledge to conservation policy: a case study on green tree retention and continuous-cover forestry in Sweden. *Biodiversity and Conservation*, **2019**, 28, 3547-3574	3.4	6
289	Towards ecologically functional riparian zones: A meta-analysis to develop guidelines for protecting ecosystem functions and biodiversity in agricultural landscapes. *Journal of Environmental Management*, **2019**, 249, 109391	7.9	34
288	Eu anomalies in soils and soil water from a boreal hillslope transect □A tracer for Holocene lanthanide transport?. *Geochimica Et Cosmochimica Acta*, **2019**, 267, 147-163	5.5	4
287	Seasonal trends of legacy and alternative flame retardants in river water in a boreal catchment. *Science of the Total Environment*, **2019**, 692, 1097-1105	10.2	9
286	Current forest carbon fixation fuels stream CO emissions. *Nature Communications*, **2019**, 10, 1876	17.4	29
285	The carbon balance of a managed boreal landscape measured from a tall tower in northern Sweden. *Agricultural and Forest Meteorology*, **2019**, 274, 29-41	5.8	16
284	Carbon response to changing winter conditions in northern regions: current understanding and emerging research needs. *Environmental Reviews*, **2019**, 27, 545-566	4.5	7
283	Soil frost effects on streamflow recessions in a subarctic catchment. *Hydrological Processes*, **2019**, 33, 1304-1316	3.3	11

282	High carbon emissions from thermokarst lakes of Western Siberia. *Nature Communications*, **2019**, 10, 1552	17.4	53
281	Headwater lakes and their influence on downstream discharge. *Limnology and Oceanography Letters*, **2019**, 4, 105-112	7.9	11
280	Contrasting responses in dissolved organic carbon to extreme climate events from adjacent boreal landscapes in Northern Sweden. *Environmental Research Letters*, **2019**, 14, 084007	6.2	4
279	Assessing the influence of soil freeze□thaw cycles on catchment water storage□flux□age interactions using a tracer-aided ecohydrological model. *Hydrology and Earth System Sciences*, **2019**, 23, 3319-3334	5.5	11
278	Groundwater inflows control patterns and sources of greenhouse gas emissions from streams. *Limnology and Oceanography*, **2019**, 64, 1545-1557	4.8	37
277	Climate-phenology-hydrology interactions in northern high latitudes: Assessing the value of remote sensing data in catchment ecohydrological studies. *Science of the Total Environment*, **2019**, 656, 19-28	10.2	15
276	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. *Science Advances*, **2019**, 5, eaav0486	14.3	70
275	The role of landscape properties, storage and evapotranspiration on variability in streamflow recessions in a boreal catchment. *Journal of Hydrology*, **2019**, 570, 315-328	6	20
274	Fragmentation of the Hyporheic Zone Due to Regional Groundwater Circulation. *Water Resources Research*, **2019**, 55, 1242-1262	5.4	9
273	Comparing buffer zone alternatives in forest planning using a decision support system. *Scandinavian Journal of Forest Research*, **2018**, 33, 493-501	1.7	6
272	Crowther et al. reply. *Nature*, **2018**, 554, E7-E8	50.4	11
271	Groundwater-surface water interactions across scales in a boreal landscape investigated using a numerical modelling approach. *Journal of Hydrology*, **2018**, 560, 184-201	6	17
270	Identifying and assessing the potential hydrological function of past artificial forest drainage. *Ambio*, **2018**, 47, 546-556	6.5	16
269	The Role of Spring Flood and Landscape Type in the Terrestrial Export of Polycyclic Aromatic Compounds to Streamwater. *Environmental Science & Technology*, **2018**, 52, 6217-6225	10.3	5
268	Extreme Climate Effects on Dissolved Organic Carbon Concentrations During Snowmelt. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 1277-1288	3.7	11
267	Permafrost and lakes control river isotope composition across a boreal Arctic transect in the Western Siberian lowlands. *Environmental Research Letters*, **2018**, 13, 034028	6.2	23
266	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
265	Stable Carbon Isotopes Reveal Soil-Stream DIC Linkages in Contrasting Headwater Catchments. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 149-167	3.7	33

264	Simulating streamflow in ungauged basins under a changing climate: The importance of landscape characteristics. *Journal of Hydrology*, **2018**, 561, 160-178	6	27
263	Headwater Mires Constitute a Major Source of Nitrogen (N) to Surface Waters in the Boreal Landscape. *Ecosystems*, **2018**, 21, 31-44	3.9	11
262	Towards an Improved Conceptualization of Riparian Zones in Boreal Forest Headwaters. *Ecosystems* , **2018**, 21, 297-315	3.9	46
261	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. *Vadose Zone Journal*, **2018**, 17, 170149	2.7	58
260	Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. *Hydrological Processes*, **2018**, 32, 1720-1737	3.3	36
259	Carbon Dioxide and Methane Dynamics in a Small Boreal Lake During Winter and Spring Melt Events. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 2527-2540	3.7	16
258	How landscape organization and scale shape catchment hydrology and biogeochemistry: insights from a long-term catchment study. *Wiley Interdisciplinary Reviews: Water*, **2018**, 5, e1265	5.7	19
257	Thermal detection of discrete riparian inflow points (DRIPs) during contrasting hydrological events. *Hydrological Processes*, **2018**, 32, 3049-3050	3.3	14
256	Greenhouse gas emissions from boreal inland waters unchanged after forest harvesting. *Biogeosciences*, **2018**, 15, 5575-5594	4.6	9
255	Water ages in the critical zone of long-term experimental sites in northern latitudes. *Hydrology and Earth System Sciences*, **2018**, 22, 3965-3981	5.5	25
254	High riverine CO2 emissions at the permafrost boundary of Western Siberia. *Nature Geoscience*, **2018**, 11, 825-829	18.3	40
253	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. *Hydrology and Earth System Sciences*, **2018**, 22, 567-580	5.5	49
252	Quality transformation of dissolved organic carbon during water transit through lakes: contrasting controls by photochemical and biological processes. *Biogeosciences*, **2018**, 15, 457-470	4.6	13
251	Save northern high-latitude catchments. *Nature Geoscience*, **2017**, 10, 324-325	18.3	53
250	Land use influences macroinvertebrate community composition in boreal headwaters through altered stream conditions. *Ambio*, **2017**, 46, 311-323	6.5	25
249	Holocene carbon and nitrogen accumulation rates in a boreal oligotrophic fen. *Holocene*, **2017**, 27, 811-821	2.6	9
248	The essential value of long-term experimental data for hydrology and water management. *Water Resources Research*, **2017**, 53, 2598-2604	5.4	73
247	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

246	Evaluating topography-based predictions of shallow lateral groundwater discharge zones for a boreal lake-stream system. *Water Resources Research*, **2017**, 53, 5420-5437	5.4	31
245	GIS-based prediction of stream chemistry using landscape composition, wet areas, and hydrological flow pathways. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 65-79	3.7	12
244	Inferring scale-dependent processes influencing stream water biogeochemistry from headwater to sea. *Limnology and Oceanography*, **2017**, 62, S58-S70	4.8	27
243	Widespread Increases in Iron Concentration in European and North American Freshwaters. *Global Biogeochemical Cycles*, **2017**, 31, 1488-1500	5.9	49
242	Elemental Composition of Natural Nanoparticles and Fine Colloids in European Forest Stream Waters and Their Role as Phosphorus Carriers. *Global Biogeochemical Cycles*, **2017**, 31, 1592-1607	5.9	33
241	From soil water to surface water how the riparian zone controls element transport from a boreal forest to a stream. *Biogeosciences*, **2017**, 14, 3001-3014	4.6	40
240	Atmospheric Transport and Deposition of Bromoanisoles Along a Temperate to Arctic Gradient. *Environmental Science & Technology*, **2017**, 51, 10974-10982	10.3	12
239	Aquatic export of young dissolved and gaseous carbon from a pristine boreal fen: Implications for peat carbon stock stability. *Global Change Biology*, **2017**, 23, 5523-5536	11.4	25
238	Modeling the isotopic evolution of snowpack and snowmelt: Testing a spatially distributed parsimonious approach. *Water Resources Research*, **2017**, 53, 5813-5830	5.4	39
237	Seasonal resource limitation of heterotrophic biofilms in boreal streams. *Limnology and Oceanography*, **2017**, 62, 164-176	4.8	20
236	Increasing water losses from snow captured in the canopy of boreal forests: A case study using a 30year data set. *Hydrological Processes*, **2017**, 31, 3558-3567	3.3	11
235	Strategies trees use to overcome seasonal water limitation in an agroforestry system in semiarid West Africa. *Ecohydrology*, **2017**, 10, e1808	2.5	16
234	Spatial and temporal patterns of dissolved organic matter quantity and quality in the Mississippi River Basin, 19972013. *Hydrological Processes*, **2017**, 31, 902-915	3.3	21
233	Landscape control on the hydrogeochemistry of As, Co and Pb in a boreal stream network. *Geochimica Et Cosmochimica Acta*, **2017**, 211, 194-213	5.5	2
232	Management perspectives on Aqua incognita: Connectivity and cumulative effects of small natural and artificial streams in boreal forests. *Hydrological Processes*, **2017**, 31, 4238-4244	3.3	26
231	Mercury evasion from a boreal peatland shortens the timeline for recovery from legacy pollution. *Scientific Reports*, **2017**, 7, 16022	4.9	29
230	Evaluating hillslope and riparian contributions to dissolved nitrogen (N) export from a boreal forest catchment. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 324-339	3.7	18
229	Using isotopes to constrain water flux and age estimates in snow-influenced catchments using the STARR (Spatially distributed Tracer-Aided RainfallRunoff) model. *Hydrology and Earth System Sciences*, **2017**, 21, 5089-5110	5.5	47

228	Chlorinated pesticides and natural brominated anisoles in air at three northern Baltic stations. *Environmental Pollution*, **2017**, 225, 381-389	9.3	9
227	Experimental insights into the importance of aquatic bacterial community composition to the degradation of dissolved organic matter. *ISME Journal*, **2016**, 10, 533-45	11.9	197
226	Decoupling of carbon dioxide and dissolved organic carbon in boreal headwater streams. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 2630-2651	3.7	33
225	Intermediate tree cover can maximize groundwater recharge in the seasonally dry tropics. *Scientific Reports*, **2016**, 6, 21930	4.9	126
224	Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. *Environmental Science and Technology Letters*, **2016**, 3, 430-435	11	158
223	Nematode community resistant to deep soil frost in boreal forest soils. *Pedobiologia*, **2016**, 59, 243-251	1.7	8
222	Persistent Organic Pollutants in Streamwater: Influence of Hydrological Conditions and Landscape Type. *Environmental Science & Technology*, **2016**, 50, 7416-24	10.3	16
221	Conceptualizing and communicating management effects on forest water quality. *Ambio*, **2016**, 45 Suppl 2, 188-202	6.5	21
220	Hydroclimatic influences on non-stationary transit time distributions in a boreal headwater catchment. *Journal of Hydrology*, **2016**, 543, 7-16	6	21
219	Hillslope permeability architecture controls on subsurface transit time distribution and flow paths. *Journal of Hydrology*, **2016**, 543, 17-30	6	37
218	Modeling nonlinear responses of DOC transport in boreal catchments in Sweden. *Water Resources Research*, **2016**, 52, 4970-4989	5.4	7
217	Relationships Between Plant Assemblages and Water Flow Across a Boreal Forest Landscape: A Comparison of Liverworts, Mosses, and Vascular Plants. *Ecosystems*, **2016**, 19, 170-184	3.9	22
216	Socio-ecological implications of modifying rotation lengths in forestry. *Ambio*, **2016**, 45 Suppl 2, 109-23	6.5	50
215	Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. *Ambio*, **2016**, 45 Suppl 2, 175-87	6.5	49
214	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. *Environmental Research Letters*, **2016**, 11, 034014	6.2	165
213	Replacing monocultures with mixed-species stands: Ecosystem service implications of two production forest alternatives in Sweden. *Ambio*, **2016**, 45 Suppl 2, 124-39	6.5	125
212	234 U/ 238 U in a boreal stream network Relationship to hydrological events, groundwater and scale. *Chemical Geology*, **2016**, 420, 240-250	4.2	10
211	A method of establishing a transect for biodiversity and ecosystem function monitoring across Europe. *Applied Soil Ecology*, **2016**, 97, 3-11	5	27

210	Biogeochemical data from terrestrial and aquatic ecosystems in a periglacial catchment, West Greenland. *Earth System Science Data*, **2016**, 8, 439-459	10.5	8
209	Nitrogen export from a boreal stream network following forest harvesting: seasonal nitrate removal and conservative export of organic forms. *Biogeosciences*, **2016**, 13, 1-12	4.6	30
208	Using dry and wet year hydroclimatic extremes to guide future hydrologic projections. *Hydrology and Earth System Sciences*, **2016**, 20, 2811-2825	5.5	12
207	Data rules: from personal belonging to community goods. *Hydrological Processes*, **2016**, 30, 1978-1981	3.3	4
206	The assumption of uniform specific discharge: unsafe at any time?. *Hydrological Processes*, **2016**, 30, 3978-3988	3.3	24
205	Water use by Swedish boreal forests in a changing climate. *Functional Ecology*, **2016**, 30, 690-699	5.6	27
204	Adding snow to the picture providing complementary winter precipitation data to the Krycklan Catchment Study database. *Hydrological Processes*, **2016**, 30, 2413-2416	3.3	38
203	Influence of soil frost on the character and degradability of dissolved organic carbon in boreal forest soils. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 829-840	3.7	15
202	The Importance of Eolian Input on Lake-Sediment Geochemical Composition in the Dry Proglacial Landscape of Western Greenland. *Arctic, Antarctic, and Alpine Research*, **2016**, 48, 93-109	1.8	10
201	Quantifying global soil carbon losses in response to warming. *Nature*, **2016**, 540, 104-108	50.4	560
200	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
199	Long-term declines in stream and river inorganic nitrogen (N) export correspond to forest change. *Ecological Applications*, **2016**, 26, 545-56	4.9	26
198	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
197	Boreal forest riparian zones regulate stream sulfate and dissolved organic carbon. *Science of the Total Environment*, **2016**, 560-561, 110-22	10.2	41
196	Landscape controls on spatiotemporal discharge variability in a boreal catchment. *Water Resources Research*, **2016**, 52, 6541-6556	5.4	46
195	Short-term climate change manipulation effects do not scale up to long-term legacies: effects of an absent snow cover on boreal forest plants. *Journal of Ecology*, **2016**, 104, 1638-1648	6	46
194	Twelve year interannual and seasonal variability of stream carbon export from a boreal peatland catchment. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 1851-1866	3.7	39
193	Cost of riparian buffer zones: A comparison of hydrologically adapted site-specific riparian buffers with traditional fixed widths. *Water Resources Research*, **2016**, 52, 1056-1069	5.4	31

192	Atmospheric pathways of chlorinated pesticides and natural bromoanisoles in the northern Baltic Sea and its catchment. *Ambio*, **2015**, 44 Suppl 3, 472-83	6.5	13
191	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. *Canadian Journal of Fisheries and Aquatic Sciences*, **2015**, 72, 1272-1285	2.4	162
190	Sources of and processes controlling CO2 emissions change with the size of streams and rivers. *Nature Geoscience*, **2015**, 8, 696-699	18.3	302
189	Mass Balance of Perfluorinated Alkyl Acids in a Pristine Boreal Catchment. *Environmental Science & Technology*, **2015**, 49, 12127-35	10.3	32
188	Local and regional processes determine plant species richness in a river-network metacommunity. *Ecology*, **2015**, 96, 381-91	4.6	50
187	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
186	Hydrological response to changing climate conditions: Spatial streamflow variability in the boreal region. *Water Resources Research*, **2015**, 51, 9425-9446	5.4	52
185	A preliminary assessment of water partitioning and ecohydrological coupling in northern headwaters using stable isotopes and conceptual runoff models. *Hydrological Processes*, **2015**, 29, 5153-5173	3.3	44
184	Connecting precipitation inputs and soil flow pathways to stream water in contrasting boreal catchments. *Hydrological Processes*, **2015**, 29, 3546-3555	3.3	66
183	Comparison of threshold hydrologic response across northern catchments. *Hydrological Processes*, **2015**, 29, 3575-3591	3.3	39
182	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
181	Scale-dependent groundwater contributions influence patterns of winter baseflow stream chemistry in boreal catchments. *Journal of Geophysical Research G: Biogeosciences*, **2015**, 120, 847-858	3.7	53
180	Spatial Variability of Dissolved Organic and Inorganic Carbon in Subarctic Headwater Streams. *Arctic, Antarctic, and Alpine Research*, **2015**, 47, 529-546	1.8	14
179	Nitrogen limitation of heterotrophic biofilms in boreal streams. *Freshwater Biology*, **2015**, 60, 1237-1251	3.1	20
178	Carbon dioxide transport across the hillslope–riparian–stream continuum in a boreal headwater catchment. *Biogeosciences*, **2015**, 12, 1881-1892	4.6	44
177	Can Low-Resolution Airborne Laser Scanning Data Be Used to Model Stream Rating Curves?. *Water (Switzerland)*, **2015**, 7, 1324-1339	3	6
176	Tracer-based assessment of flow paths, storage and runoff generation in northern catchments: a review. *Hydrological Processes*, **2015**, 29, 3475-3490	3.3	113
175	Hydrological and meteorological investigations in a periglacial lake catchment near Kangerlussuaq, west Greenland – presentation of a new multi-parameter data set. *Earth System Science Data*, **2015**, 7, 93-108	10.5	21

174	Groundwater discharge creates hotspots of riparian plant species richness in a boreal forest stream network. *Ecology*, **2014**, 95, 715-25	4.6	60
173	The effect of trees on preferential flow and soil infiltrability in an agroforestry parkland in semiarid Burkina Faso. *Water Resources Research*, **2014**, 50, 3342-3354	5.4	110
172	Analysis of hydrological seasonality across northern catchments using monthly precipitation–runoff polygon metrics. *Hydrological Sciences Journal*, **2014**, 59, 56-72	3.5	4
171	Atmospheric deposition of persistent organic pollutants and chemicals of emerging concern at two sites in northern Sweden. *Environmental Sciences: Processes and Impacts*, **2014**, 16, 298-305	4.3	34
170	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
169	Metal transport in the boreal landscape-the role of wetlands and the affinity for organic matter. *Environmental Science & Technology*, **2014**, 48, 3783-90	10.3	41
168	The Full Annual Carbon Balance of Boreal Forests Is Highly Sensitive to Precipitation. *Environmental Science and Technology Letters*, **2014**, 1, 315-319	11	53
167	Cross-scale ensemble projections of dissolved organic carbon dynamics in boreal forest streams. *Climate Dynamics*, **2014**, 42, 2305-2321	4.2	20
166	Patterns and drivers of riverine nitrogen (N) across alpine, subarctic, and boreal Sweden. *Biogeochemistry*, **2014**, 120, 105-120	3.8	40
165	Towards optimizing riparian buffer zones: Ecological and biogeochemical implications for forest management. *Forest Ecology and Management*, **2014**, 334, 74-84	3.9	105
164	Landscape types and pH control organic matter mediated mobilization of Al, Fe, U and La in boreal catchments. *Geochimica Et Cosmochimica Acta*, **2014**, 135, 190-202	5.5	32
163	XAS study of iron speciation in soils and waters from a boreal catchment. *Chemical Geology*, **2014**, 364, 93-102	4.2	50
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13	Nitrogen export from a boreal stream network following forest harvesting: seasonal nitrate removal and conservative export of organic forms		1

12	Carbon dynamics and changing winter conditions: a review of current understanding and future research directions	2
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10	Long term patterns in dissolved organic carbon, major elements and trace metals in boreal headwater catchments: trends, mechanisms and heterogeneity	1
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