

Hjalmar Laudon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Quantifying global soil carbon losses in response to warming. <i>Nature</i> , 2016 , 540, 104-108	50.4	560
334	Sources of and processes controlling CO2 emissions change with the size of streams and rivers. <i>Nature Geoscience</i> , 2015 , 8, 696-699	18.3	302
333	Patterns and Dynamics of Dissolved Organic Carbon (DOC) in Boreal Streams: The Role of Processes, Connectivity, and Scaling. <i>Ecosystems</i> , 2011 , 14, 880-893	3.9	281
332	Resolving the Double Paradox of rapidly mobilized old water with highly variable responses in runoff chemistry. <i>Hydrological Processes</i> , 2004 , 18, 185-189	3.3	265
331	Contemporary carbon accumulation in a boreal oligotrophic minerogenic mire is a significant sink after accounting for all C-fluxes. <i>Global Change Biology</i> , 2008 , 14, 2317-2332	11.4	262
330	Thirty-five years of synchrony in the organic matter concentrations of Swedish rivers explained by variation in flow and sulphate. <i>Global Change Biology</i> , 2008 , 14, 1191-1198	11.4	224
329	Seasonal TOC export from seven boreal catchments in northern Sweden. <i>Aquatic Sciences</i> , 2004 , 66, 223-230	2.3	222
328	Aqua Incognita: the unknown headwaters. <i>Hydrological Processes</i> , 2008 , 22, 1239-1242	3.3	213
327	Experimental insights into the importance of aquatic bacterial community composition to the degradation of dissolved organic matter. <i>ISME Journal</i> , 2016 , 10, 533-45	11.9	197
326	How does landscape structure influence catchment transit time across different geomorphic provinces?. <i>Hydrological Processes</i> , 2009 , 23, 945-953	3.3	182
325	The role of catchment scale and landscape characteristics for runoff generation of boreal streams. <i>Journal of Hydrology</i> , 2007 , 344, 198-209	6	181
324	Modeling spatial patterns of saturated areas: A comparison of the topographic wetness index and a dynamic distributed model. <i>Journal of Hydrology</i> , 2009 , 373, 15-23	6	175
323	The Krycklan Catchment Study—a flagship infrastructure for hydrology, biogeochemistry, and climate research in the boreal landscape. <i>Water Resources Research</i> , 2013 , 49, 7154-7158	5.4	172
322	Linking soil- and stream-water chemistry based on a Riparian Flow-Concentration Integration Model. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 2287-2297	5.5	172
321	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016 , 11, 034014	6.2	165
320	A meta-analysis of the effects of nitrogen additions on base cations: Implications for plants, soils, and streams. <i>Forest Ecology and Management</i> , 2011 , 262, 95-104	3.9	163
319	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015 , 72, 1272-1285	2.4	162

318	Importance of seasonality and small streams for the landscape regulation of dissolved organic carbon export. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		160
317	Hydrological flow paths during snowmelt: Congruence between hydrometric measurements and oxygen 18 in meltwater, soil water, and runoff. <i>Water Resources Research</i> , 2004 , 40,	5.4	160
316	Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 430-435	11	158
315	Evasion of CO ₂ from streams - the dominant component of the carbon export through the aquatic conduit in a boreal landscape. <i>Global Change Biology</i> , 2013 , 19, 785-97	11.4	144
314	Climate change impact on snow and soil temperature in boreal Scots pine stands. <i>Climatic Change</i> , 2007 , 85, 179-193	4.5	133
313	Efficient aquatic bacterial metabolism of dissolved low-molecular-weight compounds from terrestrial sources. <i>ISME Journal</i> , 2010 , 4, 408-16	11.9	132
312	Intermediate tree cover can maximize groundwater recharge in the seasonally dry tropics. <i>Scientific Reports</i> , 2016 , 6, 21930	4.9	126
311	Replacing monocultures with mixed-species stands: Ecosystem service implications of two production forest alternatives in Sweden. <i>Ambio</i> , 2016 , 45 Suppl 2, 124-39	6.5	125
310	Landscape-scale variability of acidity and dissolved organic carbon during spring flood in a boreal stream network. <i>Journal of Geophysical Research</i> , 2007 , 112,		125
309	Dissolved inorganic carbon export across the soil/stream interface and its fate in a boreal headwater stream. <i>Environmental Science & Technology</i> , 2009 , 43, 7364-9	10.3	118
308	Lake secondary production fueled by rapid transfer of low molecular weight organic carbon from terrestrial sources to aquatic consumers. <i>Ecology Letters</i> , 2010 , 13, 870-80	10	115
307	Tracer-based assessment of flow paths, storage and runoff generation in northern catchments: a review. <i>Hydrological Processes</i> , 2015 , 29, 3475-3490	3.3	113
306	The effect of trees on preferential flow and soil infiltrability in an agroforestry parkland in semiarid Burkina Faso. <i>Water Resources Research</i> , 2014 , 50, 3342-3354	5.4	110
305	Cross-regional prediction of long-term trajectory of stream water DOC response to climate change. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	110
304	Riparian zone hydrology and soil water total organic carbon (TOC): implications for spatial variability and upscaling of lateral riparian TOC exports. <i>Biogeosciences</i> , 2012 , 9, 3901-3916	4.6	109
303	Terrestrial organic matter support of lake food webs: Evidence from lake metabolism and stable hydrogen isotopes of consumers. <i>Limnology and Oceanography</i> , 2012 , 57, 1042-1048	4.8	108
302	Landscape regulation of bacterial growth efficiency in boreal freshwaters. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	107
301	Towards optimizing riparian buffer zones: Ecological and biogeochemical implications for forest management. <i>Forest Ecology and Management</i> , 2014 , 334, 74-84	3.9	105

300	Hydrograph separation using stable isotopes, silica and electrical conductivity: an alpine example. <i>Journal of Hydrology</i> , 1997 , 201, 82-101	6	105
299	Dissolved organic carbon characteristics in boreal streams in a forest-wetland gradient during the transition between winter and summer. <i>Journal of Geophysical Research</i> , 2008 , 113,		103
298	Is a universal model of organic acidity possible: comparison of the acid/base properties of dissolved organic carbon in the boreal and temperate zones. <i>Environmental Science & Technology</i> , 2003 , 37, 1726-30	10.3	98
297	High DON bioavailability in boreal streams during a spring flood. <i>Limnology and Oceanography</i> , 2000 , 45, 1298-1307	4.8	98
296	Effect of pH and stream order on iron and arsenic speciation in boreal catchments. <i>Environmental Science & Technology</i> , 2013 , 47, 7120-8	10.3	93
295	Cold winter soils enhance dissolved organic carbon concentrations in soil and stream water. <i>Geophysical Research Letters</i> , 2010 , 37,	4.9	92
294	Oxygen 18 fractionation during snowmelt: Implications for spring flood hydrograph separation. <i>Water Resources Research</i> , 2002 , 38, 40-1-40-10	5.4	89
293	Inter-comparison of hydro-climatic regimes across northern catchments: synchronicity, resistance and resilience. <i>Hydrological Processes</i> , 2010 , 24, 3591-3602	3.3	88
292	Naturally acid freshwater ecosystems are diverse and functional: evidence from boreal streams. <i>Oikos</i> , 2004 , 104, 149-155	4	84
291	Quantifying the drivers of the increasing colored organic matter in boreal surface waters. <i>Environmental Science & Technology</i> , 2010 , 44, 2975-80	10.3	82
290	Temporal and spatial variability of dissolved inorganic carbon in a boreal stream network: Concentrations and downstream fluxes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		81
289	Hydrogeochemistry of Fe and Mn in small boreal streams: The role of seasonality, landscape type and scale. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 2789-2804	5.5	80
288	Effects of forestry operations on dissolved organic carbon concentrations and export in boreal first-order streams. <i>Journal of Geophysical Research</i> , 2012 , 117,		79
287	Dynamics of stream water TOC concentrations in a boreal headwater catchment: Controlling factors and implications for climate scenarios. <i>Journal of Hydrology</i> , 2009 , 373, 44-56	6	77
286	Climate's control of intra-annual and interannual variability of total organic carbon concentration and flux in two contrasting boreal landscape elements. <i>Journal of Geophysical Research</i> , 2008 , 113,		77
285	The essential value of long-term experimental data for hydrology and water management. <i>Water Resources Research</i> , 2017 , 53, 2598-2604	5.4	73
284	Absence of snow cover reduces understory plant cover and alters plant community composition in boreal forests. <i>Oecologia</i> , 2012 , 168, 577-87	2.9	73
283	Long-term patterns in dissolved organic carbon, major elements and trace metals in boreal headwater catchments: trends, mechanisms and heterogeneity. <i>Biogeosciences</i> , 2013 , 10, 2315-2330	4.6	70

282	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. <i>Science Advances</i> , 2019 , 5, eaav0486	14.3	70
281	Linking variability in soil solution dissolved organic carbon to climate, soil type, and vegetation type. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 497-509	5.9	69
280	Silicate mineral weathering rate estimates: Are they precise enough to be useful when predicting the recovery of nutrient pools after harvesting?. <i>Forest Ecology and Management</i> , 2011 , 261, 1-9	3.9	69
279	The relative influence of land cover, hydrology, and in-stream processing on the composition of dissolved organic matter in boreal streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1491-1505	3.7	67
278	Connecting precipitation inputs and soil flow pathways to stream water in contrasting boreal catchments. <i>Hydrological Processes</i> , 2015 , 29, 3546-3555	3.3	66
277	Regulation of stream water dissolved organic carbon (DOC) concentrations during snowmelt; the role of discharge, winter climate and memory effects. <i>Biogeosciences</i> , 2010 , 7, 2901-2913	4.6	66
276	Terrestrial export of highly bioavailable carbon from small boreal catchments in spring floods. <i>Freshwater Biology</i> , 2008 , 53, 964-972	3.1	64
275	Catchment data for process conceptualization: simply not enough?. <i>Hydrological Processes</i> , 2008 , 22, 2057-2061	3.3	63
274	Flux rates of atmospheric lead pollution within soils of a small catchment in northern Sweden and their implications for future stream water quality. <i>Environmental Science & Technology</i> , 2006 , 40, 4639-45	10.3	62
273	Browning of freshwaters: Consequences to ecosystem services, underlying drivers, and potential mitigation measures. <i>Ambio</i> , 2020 , 49, 375-390	6.5	62
272	Hydrologic and biotic control of nitrogen export during snowmelt: A combined conservative and reactive tracer approach. <i>Water Resources Research</i> , 2007 , 43,	5.4	61
271	Groundwater discharge creates hotspots of riparian plant species richness in a boreal forest stream network. <i>Ecology</i> , 2014 , 95, 715-25	4.6	60
270	Landscape control of stream water aluminum in a boreal catchment during spring flood. <i>Environmental Science & Technology</i> , 2006 , 40, 3494-500	10.3	60
269	Consequences of More Intensive Forestry for the Sustainable Management of Forest Soils and Waters. <i>Forests</i> , 2011 , 2, 243-260	2.8	59
268	Aging of allochthonous organic carbon regulates bacterial production in unproductive boreal lakes. <i>Limnology and Oceanography</i> , 2009 , 54, 1333-1342	4.8	59
267	Measuring and Modeling Stable Isotopes of Mobile and Bulk Soil Water. <i>Vadose Zone Journal</i> , 2018 , 17, 170149	2.7	58
266	Response of dissolved organic carbon following forest harvesting in a boreal forest. <i>Ambio</i> , 2009 , 38, 381-6	6.5	58
265	Quantifying sources of acid neutralisation capacity depression during spring flood episodes in Northern Sweden. <i>Environmental Pollution</i> , 1999 , 105, 427-435	9.3	58

264	Energy exchange and water budget partitioning in a boreal minerogenic mire. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1-13	3.7	57
263	Riparian soil temperature modification of the relationship between flow and dissolved organic carbon concentration in a boreal stream. <i>Water Resources Research</i> , 2011 , 47,	5.4	56
262	Hydrological control of organic carbon support for bacterial growth in boreal headwater streams. <i>Microbial Ecology</i> , 2009 , 57, 170-8	4.4	56
261	Hydrological effects of clear-cutting in a boreal forest: Snowpack dynamics, snowmelt and streamflow responses. <i>Journal of Hydrology</i> , 2013 , 484, 105-114	6	55
260	Winter soil frost conditions in boreal forests control growing season soil CO ₂ concentration and its atmospheric exchange. <i>Global Change Biology</i> , 2008 , 14, 2839-2847	11.4	54
259	Save northern high-latitude catchments. <i>Nature Geoscience</i> , 2017 , 10, 324-325	18.3	53
258	High carbon emissions from thermokarst lakes of Western Siberia. <i>Nature Communications</i> , 2019 , 10, 1552	17.4	53
257	The Full Annual Carbon Balance of Boreal Forests Is Highly Sensitive to Precipitation. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 315-319	11	53
256	Scale-dependent groundwater contributions influence patterns of winter baseflow stream chemistry in boreal catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 847-858	3.7	53
255	Hydrological response to changing climate conditions: Spatial streamflow variability in the boreal region. <i>Water Resources Research</i> , 2015 , 51, 9425-9446	5.4	52
254	Effects of soil frost on growth, composition and respiration of the soil microbial decomposer community. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2069-2077	7.5	52
253	Controls on snowmelt water mean transit times in northern boreal catchments. <i>Hydrological Processes</i> , 2010 , 24, 1672-1684	3.3	52
252	Separating the natural and anthropogenic components of spring flood pH decline: A method for areas that are not chronically acidified. <i>Water Resources Research</i> , 2000 , 36, 1873-1884	5.4	52
251	Cause of pH decline in stream water during spring melt runoff in northern Sweden. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000 , 57, 1888-1900	2.4	52
250	Local and regional processes determine plant species richness in a river-network metacommunity. <i>Ecology</i> , 2015 , 96, 381-91	4.6	50
249	Socio-ecological implications of modifying rotation lengths in forestry. <i>Ambio</i> , 2016 , 45 Suppl 2, 109-23	6.5	50
248	XAS study of iron speciation in soils and waters from a boreal catchment. <i>Chemical Geology</i> , 2014 , 364, 93-102	4.2	50
247	Use of color maps and wavelet coherence to discern seasonal and interannual climate influences on streamflow variability in northern catchments. <i>Water Resources Research</i> , 2013 , 49, 6194-6207	5.4	50

246	Specific discharge variability in a boreal landscape. <i>Water Resources Research</i> , 2012 , 48,	5.4	50
245	Widespread Increases in Iron Concentration in European and North American Freshwaters. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1488-1500	5.9	49
244	Nitrogen dynamics in managed boreal forests: Recent advances and future research directions. <i>Ambio</i> , 2016 , 45 Suppl 2, 175-87	6.5	49
243	Catchments on the cusp? Structural and functional change in northern ecohydrology. <i>Hydrological Processes</i> , 2013 , 27, 766-774	3.3	49
242	Dominant effect of increasing forest biomass on evapotranspiration: interpretations of movement in Budyko space. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 567-580	5.5	49
241	The importance of groundwater discharge for plant species number in riparian zones. <i>Ecology</i> , 2007 , 88, 131-9	4.6	48
240	Using isotopes to constrain water flux and age estimates in snow-influenced catchments using the STARR (Spatially distributed Tracer-Aided Rainfall Runoff) model. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 5089-5110	5.5	47
239	Carbon mineralization and pyrite oxidation in groundwater: Importance for silicate weathering in boreal forest soils and stream base-flow chemistry. <i>Applied Geochemistry</i> , 2011 , 26, 319-325	3.5	47
238	Does freshwater macroinvertebrate diversity along a pH-gradient reflect adaptation to low pH?. <i>Freshwater Biology</i> , 2007 , 52, 2172-2183	3.1	47
237	Towards an Improved Conceptualization of Riparian Zones in Boreal Forest Headwaters. <i>Ecosystems</i> , 2018 , 21, 297-315	3.9	46
236	Climate-induced episodic acidification of streams in central ontario. <i>Environmental Science & Technology</i> , 2004 , 38, 6009-15	10.3	46
235	The role of biogeochemical hotspots, landscape heterogeneity, and hydrological connectivity for minimizing forestry effects on water quality. <i>Ambio</i> , 2016 , 45 Suppl 2, 152-62	6.5	46
234	Landscape controls on spatiotemporal discharge variability in a boreal catchment. <i>Water Resources Research</i> , 2016 , 52, 6541-6556	5.4	46
233	Short-term climate change manipulation effects do not scale up to long-term legacies: effects of an absent snow cover on boreal forest plants. <i>Journal of Ecology</i> , 2016 , 104, 1638-1648	6	46
232	A preliminary assessment of water partitioning and ecohydrological coupling in northern headwaters using stable isotopes and conceptual runoff models. <i>Hydrological Processes</i> , 2015 , 29, 5153-5173	3.3	44
231	Carbon dioxide transport across the hillslope-riparian-stream continuum in a boreal headwater catchment. <i>Biogeosciences</i> , 2015 , 12, 1881-1892	4.6	44
230	Riparian zone control on base cation concentration in boreal streams. <i>Biogeosciences</i> , 2013 , 10, 3849-3866	4.6	43
229	Forest harvest increases runoff most during low flows in two boreal streams. <i>Ambio</i> , 2009 , 38, 357-63	6.5	42

228	Nutrient constraints on metabolism affect the temperature regulation of aquatic bacterial growth efficiency. <i>Microbial Ecology</i> , 2010 , 60, 894-902	4.4	42
227	Spatial heterogeneity of the spring flood acid pulse in a boreal stream network. <i>Science of the Total Environment</i> , 2008 , 407, 708-22	10.2	42
226	Acid/base character of organic acids in a boreal stream during snowmelt. <i>Water Resources Research</i> , 2001 , 37, 1043-1056	5.4	42
225	Metal transport in the boreal landscape-the role of wetlands and the affinity for organic matter. <i>Environmental Science & Technology</i> , 2014 , 48, 3783-90	10.3	41
224	Boreal forest riparian zones regulate stream sulfate and dissolved organic carbon. <i>Science of the Total Environment</i> , 2016 , 560-561, 110-22	10.2	41
223	From soil water to surface water How the riparian zone controls element transport from a boreal forest to a stream. <i>Biogeosciences</i> , 2017 , 14, 3001-3014	4.6	40
222	Impact of forestry on total and methyl-mercury in surface waters: distinguishing effects of logging and site preparation. <i>Environmental Science & Technology</i> , 2014 , 48, 4690-8	10.3	40
221	Patterns and drivers of riverine nitrogen (N) across alpine, subarctic, and boreal Sweden. <i>Biogeochemistry</i> , 2014 , 120, 105-120	3.8	40
220	Downstream changes in DOC: Inferring contributions in the face of model uncertainties. <i>Water Resources Research</i> , 2014 , 50, 514-525	5.4	40
219	Increasing Dissolved Organic Carbon Redefines the Extent of Surface Water Acidification and Helps Resolve a Classic Controversy. <i>BioScience</i> , 2011 , 61, 614-618	5.7	40
218	Modeling the dissolved organic carbon output from a boreal mire using the convection-dispersion equation: Importance of representing sorption. <i>Water Resources Research</i> , 2008 , 44,	5.4	40
217	High riverine CO ₂ emissions at the permafrost boundary of Western Siberia. <i>Nature Geoscience</i> , 2018 , 11, 825-829	18.3	40
216	Modeling the isotopic evolution of snowpack and snowmelt: Testing a spatially distributed parsimonious approach. <i>Water Resources Research</i> , 2017 , 53, 5813-5830	5.4	39
215	Comparison of threshold hydrologic response across northern catchments. <i>Hydrological Processes</i> , 2015 , 29, 3575-3591	3.3	39
214	Can the heterogeneity in stream dissolved organic carbon be explained by contributing landscape elements?. <i>Biogeosciences</i> , 2014 , 11, 1199-1213	4.6	39
213	Twelve-year interannual and seasonal variability of stream carbon export from a boreal peatland catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1851-1866	3.7	39
212	Modelling variability of snow depths and soil temperatures in Scots pine stands. <i>Agricultural and Forest Meteorology</i> , 2005 , 133, 109-118	5.8	38
211	Adding snow to the picture Providing complementary winter precipitation data to the Krycklan Catchment Study database. <i>Hydrological Processes</i> , 2016 , 30, 2413-2416	3.3	38

210	Hillslope permeability architecture controls on subsurface transit time distribution and flow paths. <i>Journal of Hydrology</i> , 2016 , 543, 17-30	6	37
209	Estimating organic acid dissociation in natural surface waters using total alkalinity and TOC. <i>Water Research</i> , 2000 , 34, 1425-1434	12.5	37
208	Groundwater inflows control patterns and sources of greenhouse gas emissions from streams. <i>Limnology and Oceanography</i> , 2019 , 64, 1545-1557	4.8	37
207	Storage, mixing, and fluxes of water in the critical zone across northern environments inferred by stable isotopes of soil water. <i>Hydrological Processes</i> , 2018 , 32, 1720-1737	3.3	36
206	Modeling preindustrial ANC and pH during the spring flood in northern Sweden. <i>Biogeochemistry</i> , 2001 , 54, 171-195	3.8	36
205	Snow removal reduces annual cellulose decomposition in a riparian boreal forest. <i>Canadian Journal of Soil Science</i> , 2013 , 93, 427-433	1.4	35
204	Variability of groundwater levels and total organic carbon in the riparian zone of a boreal catchment. <i>Journal of Geophysical Research</i> , 2011 , 116,		35
203	Factors influencing the acidBase (pH) balance in the Baltic Sea: a sensitivity analysis. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010 , 62, 280-295	3.3	35
202	Episodic stream water pH decline during autumn storms following a summer drought in northern Sweden. <i>Hydrological Processes</i> , 2002 , 16, 1725-1733	3.3	35
201	Natural acidity or anthropogenic acidification in the spring flood of northern Sweden?. <i>Science of the Total Environment</i> , 1999 , 234, 63-73	10.2	35
200	Towards ecologically functional riparian zones: A meta-analysis to develop guidelines for protecting ecosystem functions and biodiversity in agricultural landscapes. <i>Journal of Environmental Management</i> , 2019 , 249, 109391	7.9	34
199	Carbon dioxide and methane emissions of Swedish low-order streams— national estimate and lessons learnt from more than a decade of observations. <i>Limnology and Oceanography Letters</i> , 2018 , 3, 156-167	7.9	34
198	Atmospheric deposition of persistent organic pollutants and chemicals of emerging concern at two sites in northern Sweden. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 298-305	4.3	34
197	Atmospheric deposition, retention, and stream export of dioxins and PCBs in a pristine boreal catchment. <i>Environmental Pollution</i> , 2011 , 159, 1592-8	9.3	34
196	Evolution of soil solution aluminum during transport along a forested boreal hillslope. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		34
195	Elemental Composition of Natural Nanoparticles and Fine Colloids in European Forest Stream Waters and Their Role as Phosphorus Carriers. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1592-1607	5.9	33
194	Stable Carbon Isotopes Reveal Soil-Stream DIC Linkages in Contrasting Headwater Catchments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 149-167	3.7	33
193	Decoupling of carbon dioxide and dissolved organic carbon in boreal headwater streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2630-2651	3.7	33

192	Uncertainty in silicate mineral weathering rate estimates: source partitioning and policy implications. <i>Environmental Research Letters</i> , 2012 , 7, 024025	6.2	33
191	Mass Balance of Perfluorinated Alkyl Acids in a Pristine Boreal Catchment. <i>Environmental Science & Technology</i> , 2015 , 49, 12127-35	10.3	32
190	Landscape types and pH control organic matter mediated mobilization of Al, Fe, U and La in boreal catchments. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 135, 190-202	5.5	32
189	Change in winter climate will affect dissolved organic carbon and water fluxes in mid-to-high latitude catchments. <i>Hydrological Processes</i> , 2013 , 27, 700-709	3.3	32
188	Hydrological mobilization of mercury and dissolved organic carbon in a snow-dominated, forested watershed: Conceptualization and modeling. <i>Journal of Geophysical Research</i> , 2011 , 116,		32
187	Long-term trends in catchment organic carbon and nitrogen exports from three acidified catchments in Nova Scotia, Canada. <i>Biogeochemistry</i> , 2008 , 87, 83-97	3.8	32
186	Evaluating topography-based predictions of shallow lateral groundwater discharge zones for a boreal lake-stream system. <i>Water Resources Research</i> , 2017 , 53, 5420-5437	5.4	31
185	Winter climate controls soil carbon dynamics during summer in boreal forests. <i>Environmental Research Letters</i> , 2013 , 8, 024017	6.2	31
184	Thresholds for Survival of Brown Trout during the Spring Flood Acid Pulse in Streams High in Dissolved Organic Carbon. <i>Transactions of the American Fisheries Society</i> , 2008 , 137, 1363-1377	1.7	31
183	Cost of riparian buffer zones: A comparison of hydrologically adapted site-specific riparian buffers with traditional fixed widths. <i>Water Resources Research</i> , 2016 , 52, 1056-1069	5.4	31
182	Recovery of streams from episodic acidification in northern Sweden. <i>Environmental Science & Technology</i> , 2002 , 36, 921-8	10.3	30
181	Nitrogen export from a boreal stream network following forest harvesting: seasonal nitrate removal and conservative export of organic forms. <i>Biogeosciences</i> , 2016 , 13, 1-12	4.6	30
180	Current forest carbon fixation fuels stream CO emissions. <i>Nature Communications</i> , 2019 , 10, 1876	17.4	29
179	Mercury evasion from a boreal peatland shortens the timeline for recovery from legacy pollution. <i>Scientific Reports</i> , 2017 , 7, 16022	4.9	29
178	Drivers of increased organic carbon concentrations in stream water following forest disturbance: Separating effects of changes in flow pathways and soil warming. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1814-1827	3.7	29
177	A Novel Environmental Quality Criterion for Acidification in Swedish Lakes – An Application of Studies on the Relationship Between Biota and Water Chemistry. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 331-338		29
176	Inferring scale-dependent processes influencing stream water biogeochemistry from headwater to sea. <i>Limnology and Oceanography</i> , 2017 , 62, S58-S70	4.8	27
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29	Carbon dioxide transport across the hillslope-riparian-stream continuum in a boreal headwater catchment		2
28	Carbon dynamics and changing winter conditions: a review of current understanding and future research directions		2
27	Landscape control of uranium and thorium in boreal streams - spatiotemporal variability and the role of wetlands		2
26	Water ages in the critical zone of long-term experimental sites in northern latitudes		2
25	Assessing the influence of soil freeze-thaw cycles on catchment water storage - Flux - age interactions using a tracer-aided ecohydrological model		2
24	Water balance and its intra-annual variability in a permafrost catchment: hydrological interactions between catchment, lake and talik		2
23	Recovery from episodic acidification delayed by drought and high sea salt deposition		2
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16	Impact of changing DOC concentrations on the potential distribution of acid sensitive biota in a boreal stream network		1
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