

Anneli Ägren

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,952
citations

186265

28
h-index

302126

39
g-index

50
all docs

50
docs citations

50
times ranked

2882
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.4	340
2	Role of lakes for organic carbon cycling in the boreal zone. <i>Global Change Biology</i> , 2004, 10, 141-147.	9.5	281
3	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.	4.2	207
4	Importance of seasonality and small streams for the landscape regulation of dissolved organic carbon export. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	184
5	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, 785-797.	9.5	175
6	Towards optimizing riparian buffer zones: Ecological and biogeochemical implications for forest management. <i>Forest Ecology and Management</i> , 2014, 334, 74-84.	3.2	132
7	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, .	3.3	125
8	Evaluating digital terrain indices for soil wetness mapping – a Swedish case study. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3623-3634.	4.9	114
9	Cold winter soils enhance dissolved organic carbon concentrations in soil and stream water. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	100
10	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.	3.0	84
11	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.	3.3	78
12	Groundwater discharge creates hotspots of riparian plant species richness in a boreal forest stream network. <i>Ecology</i> , 2014, 95, 715-725.	3.2	78
13	Terrestrial export of highly bioavailable carbon from small boreal catchments in spring floods. <i>Freshwater Biology</i> , 2008, 53, 964-972.	2.4	74
14	Response of Dissolved Organic Carbon following Forest Harvesting in a Boreal Forest. <i>Ambio</i> , 2009, 38, 381-386.	5.5	70
15	Consequences of More Intensive Forestry for the Sustainable Management of Forest Soils and Waters. <i>Forests</i> , 2011, 2, 243-260.	2.1	68
16	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.	3.0	66
17	Mapping Temporal Dynamics in a Forest Stream Network – Implications for Riparian Forest Management. <i>Forests</i> , 2015, 6, 2982-3001.	2.1	64
18	The role of biogeochemical hotspots, landscape heterogeneity, and hydrological connectivity for minimizing forestry effects on water quality. <i>Ambio</i> , 2016, 45, 152-162.	5.5	60

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19	Can the heterogeneity in stream dissolved organic carbon be explained by contributing landscape elements?. <i>Biogeosciences</i> , 2014, 11, 1199-1213.	3.3	48
20	Downstream changes in DOC: Inferring contributions in the face of model uncertainties. <i>Water Resources Research</i> , 2014, 50, 514-525.	4.2	48
21	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.	4.2	47
22	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.	4.2	47
23	Northern landscapes in transition: Evidence, approach and ways forward using the Krycklan Catchment Study. <i>Hydrological Processes</i> , 2021, 35, e14170.	2.6	45
24	Evaluating preprocessing methods of digital elevation models for hydrological modelling. <i>Hydrological Processes</i> , 2017, 31, 4660-4668.	2.6	41
25	Adaptation to Climate Change in Swedish Forestry. <i>Forests</i> , 2016, 7, 28.	2.1	39
26	Using machine learning to generate high-resolution wet area maps for planning forest management: A study in a boreal forest landscape. <i>Ambio</i> , 2020, 49, 475-486.	5.5	39
27	Use of multiple LIDAR-derived digital terrain indices and machine learning for high-resolution national-scale soil moisture mapping of the Swedish forest landscape. <i>Geoderma</i> , 2021, 404, 115280.	5.1	39
28	Identifying and assessing the potential hydrological function of past artificial forest drainage. <i>Ambio</i> , 2018, 47, 546-556.	5.5	31
29	Seasonal and runoff-related changes in total organic carbon concentrations in the River Åre, Northern Sweden. <i>Aquatic Sciences</i> , 2008, 70, 21-29.	1.5	29
30	Soil frost enhances stream dissolved organic carbon concentrations during episodic spring snow melt from boreal mires. <i>Global Change Biology</i> , 2012, 18, 1895-1903.	9.5	28
31	Impact of whole-tree harvest on soil and stream water acidity in southern Sweden based on HD-MINTEQ simulations and pH-sensitivity. <i>Forest Ecology and Management</i> , 2017, 383, 49-60.	3.2	28
32	Modelling the fate of hydrophobic organic contaminants in a boreal forest catchment: A cross disciplinary approach to assessing diffuse pollution to surface waters. <i>Environmental Pollution</i> , 2010, 158, 2964-2969.	7.5	25
33	Local- and landscape-scale impacts of clearcuts and climate change on surface water dissolved organic carbon in boreal forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2402-2426.	3.0	23
34	Modeling stream dissolved organic carbon concentrations during spring flood in the boreal forest: A simple empirical approach for regional predictions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
35	GIS-based prediction of stream chemistry using landscape composition, wet areas, and hydrological flow pathways. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 65-79.	3.0	17
36	Sensitivity of pH in a boreal stream network to a potential decrease in base cations caused by forest harvest. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 1116-1125.	1.4	16

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37	pH sensitivity of Swedish forest streams related to catchment characteristics and geographical location – Implications for forest bioenergy harvest and ash return. <i>Forest Ecology and Management</i> , 2012, 276, 10-23.	3.2	15
38	Relationship between structural features and water chemistry in boreal headwater streams – evaluation based on results from two water management survey tools suggested for Swedish forestry. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 190.	2.7	5
39	Detecting ditches using supervised learning on high-resolution digital elevation models. <i>Expert Systems With Applications</i> , 2022, 201, 116961.	7.6	5