

# Pirkko Kortelainen

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

13,919  
citations

66234

42  
h-index

62479

80  
g-index

90  
all docs

90  
docs citations

90  
times ranked

10981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron in boreal river catchments: Biogeochemical, ecological and management implications. <i>Science of the Total Environment</i> , 2022, 805, 150256.	3.9	8
2	Shifting stoichiometry: Long-term trends in stream-dissolved organic matter reveal altered C:N ratios due to history of atmospheric acid deposition. <i>Global Change Biology</i> , 2022, 28, 98-114.	4.2	22
3	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006719.	1.9	30
4	Lakes in the era of global change: moving beyond single-lake thinking in maintaining biodiversity and ecosystem services. <i>Biological Reviews</i> , 2021, 96, 89-106.	4.7	142
5	Drainage for forestry increases N, P and TOC export to boreal surface waters. <i>Science of the Total Environment</i> , 2021, 762, 144098.	3.9	46
6	Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006953.	1.9	22
7	Sources and sinks of greenhouse gases in the landscape: Approach for spatially explicit estimates. <i>Science of the Total Environment</i> , 2021, 781, 146668.	3.9	9
8	Lakes as nitrous oxide sources in the boreal landscape. <i>Global Change Biology</i> , 2020, 26, 1432-1445.	4.2	28
9	Land-use dominates climate controls on nitrogen and phosphorus export from managed and natural Nordic headwater catchments. <i>Hydrological Processes</i> , 2020, 34, 4831-4850.	1.1	20
10	Potential impacts of a future Nordic bioeconomy on surface water quality. <i>Ambio</i> , 2020, 49, 1722-1735.	2.8	31
11	Rising methane emissions from boreal lakes due to increasing ice-free days. <i>Environmental Research Letters</i> , 2020, 15, 064008.	2.2	25
12	Novel 'chemical cocktails' in inland waters are a consequence of the freshwater salinization syndrome. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180017.	1.8	72
13	Global change-driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. <i>Global Change Biology</i> , 2018, 24, 3692-3714.	4.2	229
14	Optimal Phosphorus Abatement Redefined: Insights From Coupled Element Cycles. <i>Ecological Economics</i> , 2017, 137, 13-19.	2.9	36
15	Spatial variations in the molecular diversity of dissolved organic matter in water moving through a boreal forest in eastern Finland. <i>Scientific Reports</i> , 2017, 7, 42102.	1.6	24
16	Runoff changes have a land cover specific effect on the seasonal fluxes of terminal electron acceptors in the boreal catchments. <i>Science of the Total Environment</i> , 2017, 601-602, 946-958.	3.9	8
17	Widespread Increases in Iron Concentration in European and North American Freshwaters. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1488-1500.	1.9	79
18	The effect of iron on the biodegradation of natural dissolved organic matter. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2544-2561.	1.3	11

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19	Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. <i>Environmental Science and Technology Letters</i> , 2016, 3, 430-435.	3.9	257
20	Regional Variability and Drivers of Below Ice CO <sub>2</sub> in Boreal and Subarctic Lakes. <i>Ecosystems</i> , 2016, 19, 461-476.	1.6	28
21	Long-term trends (1975–2014) in the concentrations and export of carbon from Finnish rivers to the Baltic Sea: organic and inorganic components compared. <i>Aquatic Sciences</i> , 2016, 78, 505-523.	0.6	42
22	Boreal forests can have a remarkable role in reducing greenhouse gas emissions locally: Land use-related and anthropogenic greenhouse gas emissions and sinks at the municipal level. <i>Science of the Total Environment</i> , 2016, 557-558, 51-57.	3.9	27
23	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.	2.2	199
24	Land Cover Controls the Export of Terminal Electron Acceptors from Boreal Catchments. <i>Ecosystems</i> , 2015, 18, 343-358.	1.6	17
25	Spatial and temporal variability of organic C and N concentrations and export from 30 boreal rivers induced by land use and climate. <i>Science of the Total Environment</i> , 2015, 508, 145-154.	3.9	44
26	Dissolved organic matter in the Baltic Sea. <i>Journal of Marine Systems</i> , 2015, 142, 47-61.	0.9	71
27	Organic Carbon Concentration in the Northern Coastal Baltic Sea between 1975 and 2011. <i>Estuaries and Coasts</i> , 2015, 38, 466-481.	1.0	29
28	Environmental Impacts of Freshwater Biogeochemistry. <i>Regional Climate Studies</i> , 2015, , 307-336.	1.2	1
29	Almost 50 years of monitoring shows that climate, not forestry, controls long-term organic carbon fluxes in a large boreal watershed. <i>Global Change Biology</i> , 2014, 20, 1225-1237.	4.2	64
30	Global carbon dioxide emissions from inland waters. <i>Nature</i> , 2013, 503, 355-359.	13.7	1,670
31	Iron concentrations are increasing in surface waters from forested headwater catchments in eastern Finland. <i>Science of the Total Environment</i> , 2013, 463-464, 683-689.	3.9	68
32	Carbon evasion/accumulation ratio in boreal lakes is linked to nitrogen. <i>Global Biogeochemical Cycles</i> , 2013, 27, 363-374.	1.9	67
33	Age and source of different forms of carbon released from boreal peatland streams during spring snowmelt in E. Finland. <i>Biogeochemistry</i> , 2012, 111, 273-286.	1.7	35
34	Carbon Dioxide in Boreal Surface Waters: A Comparison of Lakes and Streams. <i>Ecosystems</i> , 2012, 15, 1295-1307.	1.6	61
35	36 year trends in dissolved organic carbon export from Finnish rivers to the Baltic Sea. <i>Science of the Total Environment</i> , 2012, 435-436, 188-201.	3.9	67
36	Global abundance and size distribution of streams and rivers. <i>Inland Waters</i> , 2012, 2, 229-236.	1.1	257

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37	Carbon pools and fluxes in a chain of five boreal lakes: A dry and wet year comparison. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	71
38	Nitrogen processes in aquatic ecosystems. , 2011, , 126-146.		46
39	Stream water hydrochemistry as an indicator of carbon flow paths in Finnish peatland catchments during a spring snowmelt event. <i>Science of the Total Environment</i> , 2011, 409, 4858-4867.	3.9	16
40	Release of aquatic carbon from two peatland catchments in E. Finland during the spring snowmelt period. <i>Biogeochemistry</i> , 2011, 103, 125-142.	1.7	61
41	Organic and inorganic carbon concentrations and fluxes from managed and unmanaged boreal first-order catchments. <i>Science of the Total Environment</i> , 2010, 408, 1649-1658.	3.9	57
42	Effects of temperature and sediment properties on benthic CO <sub>2</sub> production in an oligotrophic boreal lake. <i>Freshwater Biology</i> , 2010, 55, 1747-1757.	1.2	28
43	Methane dynamics in different boreal lake types. <i>Biogeosciences</i> , 2009, 6, 209-223.	1.3	181
44	Export of dissolved organic matter in relation to land use along a European climatic gradient. <i>Science of the Total Environment</i> , 2009, 407, 1967-1976.	3.9	120
45	Trends in hydrometeorological conditions and stream water organic carbon in boreal forested catchments. <i>Science of the Total Environment</i> , 2009, 408, 92-101.	3.9	105
46	Lakes and reservoirs as regulators of carbon cycling and climate. <i>Limnology and Oceanography</i> , 2009, 54, 2298-2314.	1.6	1,977
47	Controls of organic and inorganic carbon in randomly selected Boreal lakes in varied catchments. <i>Biogeochemistry</i> , 2008, 91, 151-162.	1.7	39
48	Sediment organic carbon burial in agriculturally eutrophic impoundments over the last century. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	399
49	Increased organic C and N leaching in a northern boreal river basin in Finland. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	97
50	Patterns and regulation of dissolved organic carbon: An analysis of 7,500 widely distributed lakes. <i>Limnology and Oceanography</i> , 2007, 52, 1208-1219.	1.6	391
51	Methane efflux from littoral vegetation stands of southern boreal lakes: An upscaled regional estimate. <i>Atmospheric Environment</i> , 2007, 41, 339-351.	1.9	84
52	Organic and minerogenic acidity in Finnish rivers in relation to land use and deposition. <i>Science of the Total Environment</i> , 2007, 383, 183-192.	3.9	22
53	Plumbing the Global Carbon Cycle: Integrating Inland Waters into the Terrestrial Carbon Budget. <i>Ecosystems</i> , 2007, 10, 172-185.	1.6	2,836
54	The global abundance and size distribution of lakes, ponds, and impoundments. <i>Limnology and Oceanography</i> , 2006, 51, 2388-2397.	1.6	1,426

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55	Sediment respiration and lake trophic state are important predictors of large CO <sub>2</sub> evasion from small boreal lakes. <i>Global Change Biology</i> , 2006, 12, 1554-1567.	4.2	237
56	Controls on the export of C, N, P and Fe from undisturbed boreal catchments, Finland. <i>Aquatic Sciences</i> , 2006, 68, 453-468.	0.6	185
57	Nitrogen in river basins: Sources, retention in the surface waters and peatlands, and fluxes to estuaries in Finland. <i>Science of the Total Environment</i> , 2006, 365, 238-259.	3.9	78
58	Organic carbon budget for the Gulf of Bothnia. <i>Journal of Marine Systems</i> , 2006, 63, 155-161.	0.9	63
59	Interannual variation and climatic regulation of the CO <sub>2</sub> emission from large boreal lakes. <i>Global Change Biology</i> , 2005, 11, 1368-1380.	4.2	121
60	Export of DOM from Boreal Catchments: Impacts of Land Use Cover and Climate. <i>Biogeochemistry</i> , 2005, 76, 373-394.	1.7	229
61	A large carbon pool and small sink in boreal Holocene lake sediments. <i>Global Change Biology</i> , 2004, 10, 1648-1653.	4.2	156
62	Finnish Lake Survey: The Role of Catchment Attributes in Determining Nitrogen, Phosphorus, and Organic Carbon Concentrations. <i>Water, Air and Soil Pollution</i> , 2004, 4, 683-699.	0.8	31
63	Sulphate and base cation concentrations and export in streams from unmanaged forested catchments in Finland. <i>Forest Ecology and Management</i> , 2004, 195, 115-128.	1.4	26
64	Finnish Lake Survey: The Role of Catchment Attributes in Determining Nitrogen, Phosphorus, and Organic Carbon Concentrations. , 2004, , 683-699.		8
65	Brook Water Quality and Background Leaching from Unmanaged Forested Catchments in Finland. <i>Water, Air, and Soil Pollution</i> , 2003, 147, 275-298.	1.1	84
66	Long-Term Base Cation Balances of Forest Mineral Soils in Finland. <i>Water, Air, and Soil Pollution</i> , 2003, 150, 255-273.	1.1	24
67	Midsummer spatial variation in methane efflux from stands of littoral vegetation in a boreal meso-eutrophic lake. <i>Freshwater Biology</i> , 2003, 48, 1617-1629.	1.2	38
68	Carbon dioxide partial pressure and <sup>13</sup> C content of north temperate and boreal lakes at spring ice melt. <i>Limnology and Oceanography</i> , 2001, 46, 941-945.	1.6	160
69	CH <sub>4</sub> , CO <sub>2</sub> and N <sub>2</sub> O supersaturation in 12 Finnish lakes before and after ice-melt. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 1410-1414.	0.1	17
70	Leaching of Nutrients, Organic Carbon and Iron from Finnish Forestry Land. <i>Water, Air, and Soil Pollution</i> , 1998, 105, 239-250.	1.1	54
71	Dissolved organic carbon fractions in Finnish and Maine (USA) lakes. <i>Environment International</i> , 1998, 24, 521-525.	4.8	18
72	Leaching of nitrogen from forested catchments in Finland. <i>Global Biogeochemical Cycles</i> , 1997, 11, 627-638.	1.9	111

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73	Acid neutralizing capacity of solutions containing organic acids isolated from Finnish lakes. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 505-510.	1.1	4
74	Organic vs. minerogenic acidity in headwater streams in Finland. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 559-564.	1.1	25
75	Effect of organic anions on acid neutralizing capacity in surface waters. <i>Environment International</i> , 1994, 20, 369-372.	4.8	10
76	Content of Total Organic Carbon in Finnish Lakes and Its Relationship to Catchment Characteristics. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993, 50, 1477-1483.	0.7	199
77	Acid-base characteristics of organic carbon in the HUMEX lake Skjervatjern. <i>Environment International</i> , 1992, 18, 621-629.	4.8	16
78	Charge density of total organic carbon in Finnish lakes. <i>Environmental Pollution</i> , 1992, 77, 107-113.	3.7	10
79	Finnish lake acidification survey: Survey design and random selection of lakes. <i>Environmetrics</i> , 1990, 1, 73-88.	0.6	31
80	Statistical Lake Survey in Finland: Regional Estimates of Lake Acidification. , 1990, , 759-780.		22
81	Organic Acidity in Finnish Lakes. , 1990, , 849-863.		16
82	The Importance of Organic Acidity in Finnish Lakes. , 1989, , 39-44.		0
83	Finnish lake survey: the role of organic and anthropogenic acidity. <i>Water, Air, and Soil Pollution</i> , 1989, 46, 235-249.	1.1	48
84	Natural and anthropogenic acidity sources for Finnish Lakes. <i>Water, Air, and Soil Pollution</i> , 1988, 42, 341.	1.1	27
85	Acidity and humic matter in small forest lakes. <i>Science of the Total Environment</i> , 1987, 62, 343-344.	3.9	0
86	Nitrogen flows from European regional watersheds to coastal marine waters. , 0, , 271-297.		54