

Pirkko Kortelainen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3088636/publications.pdf>

Version: 2024-02-01

86
papers

13,919
citations

66343

42
h-index

62596

80
g-index

90
all docs

90
docs citations

90
times ranked

10981
citing authors

#	ARTICLE	IF	CITATIONS
1	Plumbing the Global Carbon Cycle: Integrating Inland Waters into the Terrestrial Carbon Budget. <i>Ecosystems</i> , 2007, 10, 172-185.	3.4	2,836
2	Lakes and reservoirs as regulators of carbon cycling and climate. <i>Limnology and Oceanography</i> , 2009, 54, 2298-2314.	3.1	1,977
3	Global carbon dioxide emissions from inland waters. <i>Nature</i> , 2013, 503, 355-359.	27.8	1,670
4	The global abundance and size distribution of lakes, ponds, and impoundments. <i>Limnology and Oceanography</i> , 2006, 51, 2388-2397.	3.1	1,426
5	Sediment organic carbon burial in agriculturally eutrophic impoundments over the last century. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	399
6	Patterns and regulation of dissolved organic carbon: An analysis of 7,500 widely distributed lakes. <i>Limnology and Oceanography</i> , 2007, 52, 1208-1219.	3.1	391
7	Current Browning of Surface Waters Will Be Further Promoted by Wetter Climate. <i>Environmental Science and Technology Letters</i> , 2016, 3, 430-435.	8.7	257
8	Global abundance and size distribution of streams and rivers. <i>Inland Waters</i> , 2012, 2, 229-236.	2.2	257
9	Sediment respiration and lake trophic state are important predictors of large CO ₂ evasion from small boreal lakes. <i>Global Change Biology</i> , 2006, 12, 1554-1567.	9.5	237
10	Export of DOM from Boreal Catchments: Impacts of Land Use Cover and Climate. <i>Biogeochemistry</i> , 2005, 76, 373-394.	3.5	229
11	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.	9.5	229
12	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.	1.4	199
13	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.	5.2	199
14	Controls on the export of C, N, P and Fe from undisturbed boreal catchments, Finland. <i>Aquatic Sciences</i> , 2006, 68, 453-468.	1.5	185
15	Methane dynamics in different boreal lake types. <i>Biogeosciences</i> , 2009, 6, 209-223.	3.3	181
16	Carbon dioxide partial pressure and ¹³ C content of north temperate and boreal lakes at spring ice melt. <i>Limnology and Oceanography</i> , 2001, 46, 941-945.	3.1	160
17	A large carbon pool and small sink in boreal Holocene lake sediments. <i>Global Change Biology</i> , 2004, 10, 1648-1653.	9.5	156
18	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.	10.4	142

#	ARTICLE	IF	CITATIONS
19	Interannual variation and climatic regulation of the CO ₂ emission from large boreal lakes. <i>Global Change Biology</i> , 2005, 11, 1368-1380.	9.5	121
20	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.	8.0	120
21	Leaching of nitrogen from forested catchments in Finland. <i>Global Biogeochemical Cycles</i> , 1997, 11, 627-638.	4.9	111
22	Trends in hydrometeorological conditions and stream water organic carbon in boreal forested catchments. <i>Science of the Total Environment</i> , 2009, 408, 92-101.	8.0	105
23	Increased organic C and N leaching in a northern boreal river basin in Finland. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	97
24	Brook Water Quality and Background Leaching from Unmanaged Forested Catchments in Finland. <i>Water, Air, and Soil Pollution</i> , 2003, 147, 275-298.	2.4	84
25	Methane efflux from littoral vegetation stands of southern boreal lakes: An upscaled regional estimate. <i>Atmospheric Environment</i> , 2007, 41, 339-351.	4.1	84
26	Widespread Increases in Iron Concentration in European and North American Freshwaters. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1488-1500.	4.9	79
27	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.	8.0	78
28	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.	4.0	72
29	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
30	Dissolved organic matter in the Baltic Sea. <i>Journal of Marine Systems</i> , 2015, 142, 47-61.	2.1	71
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.	8.0	68
32	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.	8.0	67
33	Carbon evasion/accumulation ratio in boreal lakes is linked to nitrogen. <i>Global Biogeochemical Cycles</i> , 2013, 27, 363-374.	4.9	67
34	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.	9.5	64
35	Organic carbon budget for the Gulf of Bothnia. <i>Journal of Marine Systems</i> , 2006, 63, 155-161.	2.1	63
36	Release of aquatic carbon from two peatland catchments in E. Finland during the spring snowmelt period. <i>Biogeochemistry</i> , 2011, 103, 125-142.	3.5	61

#	ARTICLE	IF	CITATIONS
37	Carbon Dioxide in Boreal Surface Waters: A Comparison of Lakes and Streams. <i>Ecosystems</i> , 2012, 15, 1295-1307.	3.4	61
38	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.	8.0	57
39	Leaching of Nutrients, Organic Carbon and Iron from Finnish Forestry Land. <i>Water, Air, and Soil Pollution</i> , 1998, 105, 239-250.	2.4	54
40	Nitrogen flows from European regional watersheds to coastal marine waters. , 0, , 271-297.		54
41	Finnish lake survey: the role of organic and anthropogenic acidity. <i>Water, Air, and Soil Pollution</i> , 1989, 46, 235-249.	2.4	48
42	Nitrogen processes in aquatic ecosystems. , 2011, , 126-146.		46
43	Drainage for forestry increases N, P and TOC export to boreal surface waters. <i>Science of the Total Environment</i> , 2021, 762, 144098.	8.0	46
44	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.	8.0	44
45	Long-term trends (1975â€“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.	1.5	42
46	Controls of organic and inorganic carbon in randomly selected Boreal lakes in varied catchments. <i>Biogeochemistry</i> , 2008, 91, 151-162.	3.5	39
47	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.	2.4	38
48	Optimal Phosphorus Abatement Redefined: Insights From Coupled Element Cycles. <i>Ecological Economics</i> , 2017, 137, 13-19.	5.7	36
49	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.	3.5	35
50	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
51	Finnish lake acidification survey: Survey design and random selection of lakes. <i>Environmetrics</i> , 1990, 1, 73-88.	1.4	31
52	Potential impacts of a future Nordic bioeconomy on surface water quality. <i>Ambio</i> , 2020, 49, 1722-1735.	5.5	31
53	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.	4.9	30
54	Organic Carbon Concentration in the Northern Coastal Baltic Sea between 1975 and 2011. <i>Estuaries and Coasts</i> , 2015, 38, 466-481.	2.2	29

#	ARTICLE	IF	CITATIONS
55	Effects of temperature and sediment properties on benthic CO ₂ production in an oligotrophic boreal lake. <i>Freshwater Biology</i> , 2010, 55, 1747-1757.	2.4	28
56	Regional Variability and Drivers of Below Ice CO ₂ in Boreal and Subarctic Lakes. <i>Ecosystems</i> , 2016, 19, 461-476.	3.4	28
57	Lakes as nitrous oxide sources in the boreal landscape. <i>Global Change Biology</i> , 2020, 26, 1432-1445.	9.5	28
58	Natural and anthropogenic acidity sources for Finnish Lakes. <i>Water, Air, and Soil Pollution</i> , 1988, 42, 341.	2.4	27
59	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.	8.0	27
60	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.	3.2	26
61	Organic vs. minerogenic acidity in headwater streams in Finland. <i>Water, Air, and Soil Pollution</i> , 1995, 85, 559-564.	2.4	25
62	Rising methane emissions from boreal lakes due to increasing ice-free days. <i>Environmental Research Letters</i> , 2020, 15, 064008.	5.2	25
63	Long-Term Base Cation Balances of Forest Mineral Soils in Finland. <i>Water, Air, and Soil Pollution</i> , 2003, 150, 255-273.	2.4	24
64	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.	3.3	24
65	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.	8.0	22
66	Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006953.	4.9	22
67	Statistical Lake Survey in Finland: Regional Estimates of Lake Acidification. , 1990, , 759-780.		22
68	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.	9.5	22
69	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.	2.6	20
70	Dissolved organic carbon fractions in Finnish and Maine (USA) lakes. <i>Environment International</i> , 1998, 24, 521-525.	10.0	18
71	CH ₄ , CO ₂ and N ₂ 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
72	Land Cover Controls the Export of Terminal Electron Acceptors from Boreal Catchments. <i>Ecosystems</i> , 2015, 18, 343-358.	3.4	17

#	ARTICLE	IF	CITATIONS
73	Acid-base characteristics of organic carbon in the HUMEX lake Skjervatjern. Environment International, 1992, 18, 621-629.	10.0	16
74	Stream water hydrochemistry as an indicator of carbon flow paths in Finnish peatland catchments during a spring snowmelt event. Science of the Total Environment, 2011, 409, 4858-4867.	8.0	16
75	Organic Acidity in Finnish Lakes. , 1990, , 849-863.		16
76	The effect of iron on the biodegradation of natural dissolved organic matter. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2544-2561.	3.0	11
77	Charge density of total organic carbon in Finnish lakes. Environmental Pollution, 1992, 77, 107-113.	7.5	10
78	Effect of organic anions on acid neutralizing capacity in surface waters. Environment International, 1994, 20, 369-372.	10.0	10
79	Sources and sinks of greenhouse gases in the landscape: Approach for spatially explicit estimates. Science of the Total Environment, 2021, 781, 146668.	8.0	9
80	Runoff changes have a land cover specific effect on the seasonal fluxes of terminal electron acceptors in the boreal catchments. Science of the Total Environment, 2017, 601-602, 946-958.	8.0	8
81	Iron in boreal river catchments: Biogeochemical, ecological and management implications. Science of the Total Environment, 2022, 805, 150256.	8.0	8
82	Finnish Lake Survey: The Role of Catchment Attributes in Determining Nitrogen, Phosphorus, and Organic Carbon Concentrations. , 2004, , 683-699.		8
83	Acid neutralizing capacity of solutions containing organic acids isolated from Finnish lakes. Water, Air, and Soil Pollution, 1995, 85, 505-510.	2.4	4
84	Environmental Impactsâ€”Freshwater Biogeochemistry. Regional Climate Studies, 2015, , 307-336.	1.2	1
85	Acidity and humic matter in small forest lakes. Science of the Total Environment, 1987, 62, 343-344.	8.0	0
86	The Importance of Organic Acidity in Finnish Lakes. , 1989, , 39-44.		0