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List of Publications by Year
in descending order

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60 papers	5,340 citations	126907 33 h-index	144013 57 g-index
72 all docs	72 docs citations	72 times ranked	6317 citing authors

#	Article	IF	Citations
1	Lakes and reservoirs as regulators of carbon cycling and climate. Limnology and Oceanography, 2009, 54, 2298-2314.	3.1	1,977
2	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. Biogeosciences, 2015, 12, 7129-7167.	3.3	354
3	Attenuation of ultraviolet radiation in mountain lakes: Factors controlling the amongâ€•and withinâ€‐lake variability. Limnology and Oceanography, 2000, 45, 1274-1288.	3.1	254
4	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. Environmental Research Letters, 2016, 11, 034014.	5.2	199
5	Variability in greenhouse gas emissions from permafrost thaw ponds. Limnology and Oceanography, 2010, 55, 115-133.	3.1	198
6	Shallow freshwater ecosystems of the circumpolar Arctic. Ecoscience, 2011, 18, 204-222.	1.4	185
7	Extremotrophs, extremophiles and broadband pigmentation strategies in a high arctic ice shelf ecosystem. FEMS Microbiology Ecology, 2005, 53, 73-87.	2.7	129
8	Increasing dominance of terrigenous organic matter in circumpolar freshwaters due to permafrost thaw. Limnology and Oceanography Letters, 2018, 3, 186-198.	3.9	121
9	Hot tops, cold bottoms: Synergistic climate warming and shielding effects increase carbon burial in lakes. Limnology and Oceanography Letters, 2019, 4, 132-144.	3.9	82
10	Large variability in the concentration of mycosporineâ€‐like amino acids among zooplankton from lakes located across an altitude gradient. Limnology and Oceanography, 2001, 46, 1546-1552.	3.1	80
11	Transparency of Antarctic ice-covered lakes to solar UV radiation. Limnology and Oceanography, 1998, 43, 618-624.	3.1	75
12	Performance evaluation of phycocyanin probes for the monitoring of cyanobacteria. Journal of Environmental Monitoring, 2011, 13, 110-118.	2.1	74
13	Limnological properties of permafrost thaw ponds in northeastern Canada. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1635-1648.	1.4	71
14	High methane emissions from thermokarst lakes in subarctic peatlands. Limnology and Oceanography, 2016, 61, S150.	3.1	68
15	The NSERC Canadian Lake Pulse Network: A national assessment of lake health providing science for water management in a changing climate. Science of the Total Environment, 2019, 695, 133668.	8.0	68
16	Small Thaw Ponds: An Unaccounted Source of Methane in the Canadian High Arctic. PLoS ONE, 2013, 8, e78204.	2.5	68
17	Landscape matters: Predicting the biogeochemical effects of permafrost thaw on aquatic networks with a state factor approach. Permafrost and Periglacial Processes, 2020, 31, 358-370.	3.4	66
18	Dissolved organic matter photolysis in Canadian arctic thaw ponds. Environmental Research Letters, 2013, 8, 035026.	5.2	64

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19	Cell size versus taxonomic composition as determinants of UV-sensitivity in natural phytoplankton communities. Limnology and Oceanography, 1998, 43, 1774-1779.	3.1	62
20	Subarctic Thermokarst Ponds: Investigating Recent Landscape Evolution and Sediment Dynamics in Thawed Permafrost of Northern QuÃ©bec (Canada). Arctic, Antarctic, and Alpine Research, 2014, 46, 251-271.	1.1	61
21	Effects of climate change and episodic heat events on cyanobacteria in a eutrophic polymictic lake. Science of the Total Environment, 2019, 693, 133414.	8.0	58
22	Arctic microbial ecosystems and impacts of extreme warming during the International Polar Year. Polar Science, 2009, 3, 171-180.	1.2	55
23	High Methylmercury in Arctic and Subarctic Ponds is Related to Nutrient Levels in the Warming Eastern Canadian Arctic. Environmental Science & Technology, 2015, 49, 7743-7753.	10.0	54
24	Modern to millennium-old greenhouse gases emitted from ponds and lakes of the Eastern Canadian Arctic (Bylot Island, Nunavut). Biogeosciences, 2015, 12, 7279-7298.	3.3	53
25	Optical diversity of thaw ponds in discontinuous permafrost: A model system for water color analysis. Journal of Geophysical Research, 2011, 116, .	3.3	48
26	Comparative Analysis of Four Models to Estimate Chlorophyll-a Concentration in Case-2 Waters Using MODerate Resolution Imaging Spectroradiometer (MODIS) Imagery. Remote Sensing, 2012, 4, 2373-2400.	4.0	48
27	Effects of phytoplankton blooms on fluxes and emissions of greenhouse gases in a eutrophic lake. Water Research, 2021, 196, 116985.	11.3	48
28	Arctic and Antarctic lakes as optical indicators of global change. Annals of Glaciology, 1998, 27, 691-696.	1.4	47
29	GROWTH AND PHOTOPROTECTION IN THREE DINOFLAGELLATES (INCLUDING TWO STRAINS OF) Tj ETQq1 1 0.784314 rgBT /Overlock ENHANCED ULTRAVIOLETâ€B RADIATION¹. Journal of Phycology, 2009, 45, 16-33.	2.3	47
30	Heat-Wave Effects on Oxygen, Nutrients, and Phytoplankton Can Alter Global Warming Potential of Gases Emitted from a Small Shallow Lake. Environmental Science & Technology, 2016, 50, 6267-6275.	10.0	43
31	Effect of chromophoric dissolved organic matter on epilimnetic stratification in lakes. Aquatic Sciences, 2008, 70, 123-133.	1.5	42
32	Greenhouse gas emissions from waste stabilisation ponds in Western Australia and Quebec (Canada). Water Research, 2016, 101, 64-74.	11.3	37
33	Carbon flows through the microbial food web of first-year ice in resolute passage (Canadian High) Tj ETQq1 1 0.784314 rgBT /Overlock	2.1	34
34	Extreme variability of cyanobacterial blooms in an urban drinking water supply. Journal of Plankton Research, 2013, 35, 744-758.	1.8	34
35	Sedimentology and geochemistry of thermokarst ponds in discontinuous permafrost, subarctic Quebec, Canada. Journal of Geophysical Research, 2011, 116, .	3.3	32
36	Bacterial communities and greenhouse gas emissions of shallow ponds in the High Arctic. Polar Biology, 2014, 37, 1669-1683.	1.2	30

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37	Phototrophic pigment diversity and picophytoplankton in permafrost thaw lakes. Biogeosciences, 2016, 13, 13-26.	3.3	27
38	Seasonal patterns in greenhouse gas emissions from lakes and ponds in a High Arctic polygonal landscape. Limnology and Oceanography, 2021, 66, S117.	3.1	24
39	Seasonal patterns in greenhouse gas emissions from thermokarst lakes in Central Yakutia (Eastern) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	24
40	Carbon dynamics in highly heterotrophic subarctic thaw ponds. Biogeosciences, 2015, 12, 7223-7237.	3.3	23
41	Ultraviolet B-photoprotection Efficiency of Mesocosm-enclosed Natural Phytoplankton Communities from Different Latitudes: Rimouski (Canada) and Ubatuba (Brazil). Photochemistry and Photobiology, 2006, 82, 952.	2.5	22
42	Palaeolimnological conditions inferred from fossil diatom assemblages and derivative spectral properties of sediments in thermokarst ponds of subarctic <scp>Q</scp>uebec, <scp>C</scp>anada. Boreas, 2013, 42, 575-595.	2.4	22
43	The quantitative filter technique for measuring phytoplankton absorption: Interference by MAAs in the UV waveband. Limnology and Oceanography: Methods, 2011, 1, 1-9.	2.0	21
44	Temperature effects on net greenhouse gas production and bacterial communities in arctic thaw ponds. FEMS Microbiology Ecology, 2016, 92, fiw117.	2.7	20
45	Winter Accumulation of Methane and its Variable Timing of Release from Thermokarst Lakes in Subarctic Peatlands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3521-3535.	3.0	17
46	An Adaptive Model to Monitor Chlorophyll-a in Inland Waters in Southern Quebec Using Downscaled MODIS Imagery. Remote Sensing, 2014, 6, 6446-6471.	4.0	16
47	Methane and carbon dioxide emissions from thermokarst lakes on mineral soils. Arctic Science, 2018, 4, 584-604.	2.3	15
48	The physical limnology of high-latitude lakes. , 2008, , 65-82.		14
49	Ensemble-Based Systems to Monitor Algal Bloom With Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7955-7971.	6.3	13
50	Weak mineralization despite strong processing of dissolved organic matter in Eastern Arctic tundra ponds. Limnology and Oceanography, 2021, 66, S47.	3.1	13
51	Thermokarst lake inception and development in syngenetic ice-wedge polygon terrain during a cooling climatic trend, Bylot Island (Nunavut), eastern Canadian Arctic. Cryosphere, 2020, 14, 2607-2627.	3.9	13
52	Abiotic control of underwater light in a drinking water reservoir: Photon budget analysis and implications for water quality monitoring. Water Resources Research, 2015, 51, 6290-6310.	4.2	7
53	Water column gradients beneath the summer ice of a High Arctic freshwater lake as indicators of sensitivity to climate change. Scientific Reports, 2021, 11, 2868.	3.3	7
54	Contrasted geomorphological and limnological properties of thermokarst lakes formed in buried glacier ice and ice-wedge polygon terrain. Cryosphere, 2022, 16, 2837-2857.	3.9	7

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55	Spatiotemporal Variability in Phytoplankton Bloom Phenology in Eastern Canadian Lakes Related to Physiographic, Morphologic, and Climatic Drivers. Environments - MDPI, 2020, 7, 77.	3.3	5
56	Seasonal contributions of water and pollutants to Lake St. Charles, a drinking water reservoir. Canadian Water Resources Journal, 2020, 45, 125-143.	1.2	4
57	Integrated approach towards quantifying carbon dioxide and methane release from waste stabilization ponds. Water Research, 2021, 202, 117389.	11.3	3
58	Correction to â€œSedimentology and geochemistry of thermokarst ponds in discontinuous permafrost, subarctic Quebec, Canadaâ€• Journal of Geophysical Research, 2011, 116, .	3.3	2
59	An ensemble based system for Chlorophyll-a estimation using MODIS imagery over Southern Quebec inland waters. , 2014, , .		1
60	An Overview on Fate, Transport, and Behavior of Nanomaterials in the Environment. , 2015, , 219-248.		0