

Isabelle Laurion

List of Publications by Year in descending order

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Version: 2024-02-01

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	Contrasted geomorphological and limnological properties of thermokarst lakes formed in buried glacier ice and ice-wedge polygon terrain. <i>Cryosphere</i> , 2022, 16, 2837-2857.	3.9	7
2	Weak mineralization despite strong processing of dissolved organic matter in Eastern Arctic tundra ponds. <i>Limnology and Oceanography</i> , 2021, 66, S47.	3.1	13
3	Seasonal patterns in greenhouse gas emissions from lakes and ponds in a High Arctic polygonal landscape. <i>Limnology and Oceanography</i> , 2021, 66, S117.	3.1	24
4	Water column gradients beneath the summer ice of a High Arctic freshwater lake as indicators of sensitivity to climate change. <i>Scientific Reports</i> , 2021, 11, 2868.	3.3	7
5	Effects of phytoplankton blooms on fluxes and emissions of greenhouse gases in a eutrophic lake. <i>Water Research</i> , 2021, 196, 116985.	11.3	48
6	Integrated approach towards quantifying carbon dioxide and methane release from waste stabilization ponds. <i>Water Research</i> , 2021, 202, 117389.	11.3	3
7	Seasonal patterns in greenhouse gas emissions from thermokarst lakes in Central Yakutia (Eastern Tundra). <i>Journal of Geophysical Research</i> , 2021, 126, 1-14.	3.1	24
8	Seasonal contributions of water and pollutants to Lake St. Charles, a drinking water reservoir. <i>Canadian Water Resources Journal</i> , 2020, 45, 125-143.	1.2	4
9	Spatiotemporal Variability in Phytoplankton Bloom Phenology in Eastern Canadian Lakes Related to Physiographic, Morphologic, and Climatic Drivers. <i>Environments - MDPI</i> , 2020, 7, 77.	3.3	5
10	Landscape matters: Predicting the biogeochemical effects of permafrost thaw on aquatic networks with a state factor approach. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 358-370.	3.4	66
11	Thermokarst lake inception and development in syngenetic ice-wedge polygon terrain during a cooling climatic trend, Bylot Island (Nunavut), eastern Canadian Arctic. <i>Cryosphere</i> , 2020, 14, 2607-2627.	3.9	13
12	The NSERC Canadian Lake Pulse Network: A national assessment of lake health providing science for water management in a changing climate. <i>Science of the Total Environment</i> , 2019, 695, 133668.	8.0	68
13	Effects of climate change and episodic heat events on cyanobacteria in a eutrophic polymictic lake. <i>Science of the Total Environment</i> , 2019, 693, 133414.	8.0	58
14	Hot tops, cold bottoms: Synergistic climate warming and shielding effects increase carbon burial in lakes. <i>Limnology and Oceanography Letters</i> , 2019, 4, 132-144.	3.9	82
15	Ensemble-Based Systems to Monitor Algal Bloom With Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7955-7971.	6.3	13
16	Winter Accumulation of Methane and its Variable Timing of Release from Thermokarst Lakes in Subarctic Peatlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3521-3535.	3.0	17
17	Increasing dominance of terrigenous organic matter in circumpolar freshwaters due to permafrost thaw. <i>Limnology and Oceanography Letters</i> , 2018, 3, 186-198.	3.9	121
18	Methane and carbon dioxide emissions from thermokarst lakes on mineral soils. <i>Arctic Science</i> , 2018, 4, 584-604.	2.3	15

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19	Phototrophic pigment diversity and picophytoplankton in permafrost thaw lakes. <i>Biogeosciences</i> , 2016, 13, 13-26.	3.3	27
20	High methane emissions from thermokarst lakes in subarctic peatlands. <i>Limnology and Oceanography</i> , 2016, 61, S150.	3.1	68
21	Greenhouse gas emissions from waste stabilisation ponds in Western Australia and Quebec (Canada). <i>Water Research</i> , 2016, 101, 64-74.	11.3	37
22	Heat-Wave Effects on Oxygen, Nutrients, and Phytoplankton Can Alter Global Warming Potential of Gases Emitted from a Small Shallow Lake. <i>Environmental Science & Technology</i> , 2016, 50, 6267-6275.	10.0	43
23	Temperature effects on net greenhouse gas production and bacterial communities in arctic thaw ponds. <i>FEMS Microbiology Ecology</i> , 2016, 92, f1w117.	2.7	20
24	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
25	Abiotic control of underwater light in a drinking water reservoir: Photon budget analysis and implications for water quality monitoring. <i>Water Resources Research</i> , 2015, 51, 6290-6310.	4.2	7
26	Modern to millennium-old greenhouse gases emitted from ponds and lakes of the Eastern Canadian Arctic (Bylot Island, Nunavut). <i>Biogeosciences</i> , 2015, 12, 7279-7298.	3.3	53
27	Reviews and syntheses: Effects of permafrost thaw on Arctic aquatic ecosystems. <i>Biogeosciences</i> , 2015, 12, 7129-7167.	3.3	354
28	Carbon dynamics in highly heterotrophic subarctic thaw ponds. <i>Biogeosciences</i> , 2015, 12, 7223-7237.	3.3	23
29	High Methylmercury in Arctic and Subarctic Ponds is Related to Nutrient Levels in the Warming Eastern Canadian Arctic. <i>Environmental Science & Technology</i> , 2015, 49, 7743-7753.	10.0	54
30	An Overview on Fate, Transport, and Behavior of Nanomaterials in the Environment. , 2015, , 219-248.		0
31	An ensemble based system for Chlorophyll-a estimation using MODIS imagery over Southern Quebec inland waters. , 2014, , .		1
32	Bacterial communities and greenhouse gas emissions of shallow ponds in the High Arctic. <i>Polar Biology</i> , 2014, 37, 1669-1683.	1.2	30
33	An Adaptive Model to Monitor Chlorophyll-a in Inland Waters in Southern Quebec Using Downscaled MODIS Imagery. <i>Remote Sensing</i> , 2014, 6, 6446-6471.	4.0	16
34	Subarctic Thermokarst Ponds: Investigating Recent Landscape Evolution and Sediment Dynamics in Thawed Permafrost of Northern Québec (Canada). <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 251-271.	1.1	61
35	Palaeolimnological conditions inferred from fossil diatom assemblages and derivative spectral properties of sediments in thermokarst ponds of subarctic Québec, Canada. <i>Boreas</i> , 2013, 42, 575-595.	2.4	22
36	Extreme variability of cyanobacterial blooms in an urban drinking water supply. <i>Journal of Plankton Research</i> , 2013, 35, 744-758.	1.8	34

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37	Dissolved organic matter photolysis in Canadian arctic thaw ponds. Environmental Research Letters, 2013, 8, 035026.	5.2	64
38	Small Thaw Ponds: An Unaccounted Source of Methane in the Canadian High Arctic. PLoS ONE, 2013, 8, e78204.	2.5	68
39	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
40	Performance evaluation of phycocyanin probes for the monitoring of cyanobacteria. Journal of Environmental Monitoring, 2011, 13, 110-118.	2.1	74
41	Optical diversity of thaw ponds in discontinuous permafrost: A model system for water color analysis. Journal of Geophysical Research, 2011, 116, .	3.3	48
42	Sedimentology and geochemistry of thermokarst ponds in discontinuous permafrost, subarctic Quebec, Canada. Journal of Geophysical Research, 2011, 116, .	3.3	32
43	Correction to "Sedimentology and geochemistry of thermokarst ponds in discontinuous permafrost, subarctic Quebec, Canada" Journal of Geophysical Research, 2011, 116, .	3.3	2
44	Shallow freshwater ecosystems of the circumpolar Arctic. Ecoscience, 2011, 18, 204-222.	1.4	185
45	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
46	Variability in greenhouse gas emissions from permafrost thaw ponds. Limnology and Oceanography, 2010, 55, 115-133.	3.1	198
47	GROWTH AND PHOTOPROTECTION IN THREE DINOFLAGELLATES (INCLUDING TWO STRAINS OF Tj ETQq1 1 0.784314 rgBT /Overlook ENHANCED ULTRAVIOLET-B RADIATION¹. Journal of Phycology, 2009, 45, 16-33.	2.3	47
48	Arctic microbial ecosystems and impacts of extreme warming during the International Polar Year. Polar Science, 2009, 3, 171-180.	1.2	55
49	Limnological properties of permafrost thaw ponds in northeastern Canada. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1635-1648.	1.4	71
50	Lakes and reservoirs as regulators of carbon cycling and climate. Limnology and Oceanography, 2009, 54, 2298-2314.	3.1	1,977
51	Effect of chromophoric dissolved organic matter on epilimnetic stratification in lakes. Aquatic Sciences, 2008, 70, 123-133.	1.5	42
52	The physical limnology of high-latitude lakes. , 2008, , 65-82.		14
53	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
54	Extremotrophs, extremophiles and broadband pigmentation strategies in a high arctic ice shelf ecosystem. FEMS Microbiology Ecology, 2005, 53, 73-87.	2.7	129

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55	Large variability in the concentration of mycosporine-like amino acids among zooplankton from lakes located across an altitude gradient. <i>Limnology and Oceanography</i> , 2001, 46, 1546-1552.	3.1	80
56	Attenuation of ultraviolet radiation in mountain lakes: Factors controlling the among- and within-lake variability. <i>Limnology and Oceanography</i> , 2000, 45, 1274-1288.	3.1	254
57	Arctic and Antarctic lakes as optical indicators of global change. <i>Annals of Glaciology</i> , 1998, 27, 691-696.	1.4	47
58	Transparency of Antarctic ice-covered lakes to solar UV radiation. <i>Limnology and Oceanography</i> , 1998, 43, 618-624.	3.1	75
59	Cell size versus taxonomic composition as determinants of UV-sensitivity in natural phytoplankton communities. <i>Limnology and Oceanography</i> , 1998, 43, 1774-1779.	3.1	62
60	Carbon flows through the microbial food web of first-year ice in resolute passage (Canadian High) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50	2.1	34