Marc Lucotte

List of Publications by Year in Descending Order

117 papers	4,731 citations	39 h-index	64 g-index
120 ext. papers	5,171 ext. citations	5 avg, IF	5.15 L-index

#	Paper	IF	Citations
117	Dissipation and impact of glyphosate during composting of organic wastes.. *Journal of Environmental Quality*, **2022**,	3.4	1
116	Impact of Soil Characteristics and Weed Management Practices on Glyphosate and AMPA Persistence in Field Crops Soils from the St. Lawrence Lowlands (Quebec, Canada). *Agronomy*, **2022**, 12, 992	3.6	
115	Impact of weed management practices on soil biological activity in corn and soybean field crops in Québec (Canada). *Canadian Journal of Soil Science*, **2021**, 101, 12-21	1.4	
114	Terrestrial Organic Matter Inputs to Nearshore Marine Sediment Under Prolonged Drought Followed by Significant Rainfall as Indicated by Lignin. *Estuaries and Coasts*, **2021**, 44, 2159	2.8	0
113	Weed management strategies effect on glyphosate-tolerant maize and soybean yields and quality **2020**, 3, e20088		1
112	Rural development and shifts in household dietary practices from 1999 to 2010 in the Tapajós River region, Brazilian Amazon: empirical evidence from dietary surveys. *Globalization and Health*, **2020**, 16, 36	10	4
111	Glyphosate and Aminomethylphosphonic Acid Content in Glyphosate-Resistant Soybean Leaves, Stems, and Roots and Associated Phytotoxicity Following a Single Glyphosate-Based Herbicide Application. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 6133-6142	5.7	12
110	Potential Efficiency of Grassy or Shrub Willow Buffer Strips against Nutrient Runoff from Soybean and Corn Fields in Southern Quebec, Canada. *Journal of Environmental Quality*, **2019**, 48, 352-361	3.4	11
109	Représentations sociales chrétiennes, santé et environnement en Amazonie brésilienne. *Sustentabilidade Em Debate*, **2018**, 9, 111-124	0.3	
108	Effects of low concentrations of glyphosate-based herbicide factor 540 on an agricultural stream freshwater phytoplankton community. *Chemosphere*, **2018**, 192, 133-141	8.4	39
107	Rural livelihood trajectories in the central Brazilian Amazon: Growing inequalities, changing practices, and emerging rural-urban relationships over nearly a decade. *World Development Perspectives*, **2018**, 10-12, 34-43	1.7	3
106	Glyphosate Can Decrease Germination of Glyphosate-Resistant Soybeans. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 2279-2286	5.7	11
105	Environmental and Anthropogenic Factors Influencing Mercury Dynamics During the Past Century in Floodplain Lakes of the Tapajós River, Brazilian Amazon. *Archives of Environmental Contamination and Toxicology*, **2017**, 72, 11-30	3.2	14
104	Phytoplankton growth and PSII efficiency sensitivity to a glyphosate-based herbicide (Factor 540). *Aquatic Toxicology*, **2017**, 192, 265-273	5.1	24
103	Reduction of soil erosion and mercury losses in agroforestry systems compared to forests and cultivated fields in the Brazilian Amazon. *Journal of Environmental Management*, **2017**, 203, 522-532	7.9	19
102	High yields of riparian buffer strips planted with Salix miyabena 'SX64' along field crops in Québec, Canada. *Biomass and Bioenergy*, **2017**, 105, 219-229	5.3	10
101	Herbaceous or Salix miyabeana 'SX64' narrow buffer strips as a means to minimize glyphosate and aminomethylphosphonic acid leaching from row crop fields. *Science of the Total Environment*, **2017**, 598, 1177-1186	10.2	18

100	Altered nature of terrestrial organic matter transferred to aquatic systems following deforestation in the Amazon. *Applied Geochemistry*, **2017**, 87, 136-145	3.5	6
99	Glyphosate-Dependent Inhibition of Photosynthesis in Willow. *Frontiers in Plant Science*, **2017**, 8, 207	6.2	57
98	Differential effects of glyphosate and aminomethylphosphonic acid (AMPA) on photosynthesis and chlorophyll metabolism in willow plants. *Pesticide Biochemistry and Physiology*, **2016**, 130, 65-70	4.9	100
97	Impact of phosphate on glyphosate uptake and toxicity in willow. *Journal of Hazardous Materials*, **2016**, 304, 269-79	12.8	44
96	Blood antioxidant nutrients in riparian villagers of the Brazilian Amazon: its associations with wet/dry seasons and modulation by sociodemographic determinants. *Cadernos Saude Coletiva*, **2016**, 24, 21-31	0.3	6
95	Lignin biomarkers signatures of common plants and soils of Eastern Canada. *Biogeochemistry*, **2016**, 129, 133-148	3.8	18
94	Climate and Physiography Predict Mercury Concentrations in Game Fish Species in Quebec Lakes Better than Anthropogenic Disturbances. *Archives of Environmental Contamination and Toxicology*, **2016**, 70, 710-23	3.2	9
93	Agroforestry systems as a profitable alternative to slash and burn practices in small-scale agriculture of the Brazilian Amazon. *Agroforestry Systems*, **2015**, 89, 193-204	2	21
92	Consequences of phosphate application on glyphosate uptake by roots: Impacts for environmental management practices. *Science of the Total Environment*, **2015**, 537, 115-9	10.2	14
91	Spatial and temporal evolution of family-farming land use in the Tapajós region of the Brazilian Amazon. *Acta Amazonica*, **2015**, 45, 203-214	0.8	9
90	Combined dynamics of mercury and terrigenous organic matter following impoundment of Churchill Falls Hydroelectric Reservoir, Labrador. *Biogeochemistry*, **2014**, 118, 21-34	3.8	16
89	Livelihood activities and land-use at a riparian frontier of the Brazilian Amazon: quantitative characterization and qualitative insights into the influence of knowledge, values, and beliefs. *Human Ecology*, **2014**, 42, 521-540	2	23
88	Ecology of Rhodnius robustus Larrousse, 1927 (Hemiptera, Reduviidae, Triatominae) in Attalea palm trees of the Tapajós River Region (Pará State, Brazilian Amazon). *Parasites and Vectors*, **2014**, 7, 154	4	21
87	Deciphering the impact of land-uses on terrestrial organic matter and mercury inputs to large boreal lakes of central Québec using lignin biomarkers. *Applied Geochemistry*, **2014**, 41, 34-48	3.5	13
86	Alteration of plant physiology by glyphosate and its by-product aminomethylphosphonic acid: an overview. *Journal of Experimental Botany*, **2014**, 65, 4691-703	7	153
85	Impact of forested fallows on fertility and mercury content in soils of the Tapajós River region, Brazilian Amazon. *Science of the Total Environment*, **2013**, 458-460, 228-37	10.2	9
84	Impacts of Land Uses on Mercury Retention in Long-Time Cultivated Soils, Brazilian Amazon. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	7
83	The carbon cycle of Quebec boreal reservoirs investigated by elemental compositions and isotopic values. *Biogeochemistry*, **2012**, 111, 555-568	3.8	7

82	Assessing carbon dynamics in natural and perturbed boreal aquatic systems. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		7
81	Physicochemical properties of soils in the Brazilian Amazon following fire-free land preparation and slash-and-burn practices. *Agriculture, Ecosystems and Environment*, **2012**, 156, 108-115	5.7	35
80	Mercury sources and bioavailability in lakes located in the mining district of Chibougamau, eastern Canada. *Applied Geochemistry*, **2011**, 26, 230-241	3.5	11
79	Mercury and methylmercury concentrations in high altitude lakes and fish (Arctic charr) from the French Alps related to watershed characteristics. *Science of the Total Environment*, **2011**, 409, 1909-15	10.2	22
78	Mercury and flooding cycles in the Tapajós River basin, Brazilian Amazon: the role of periphyton of a floating macrophyte (Paspalum repens). *Science of the Total Environment*, **2011**, 409, 2746-53	10.2	25
77	Terrestrial organic matter biomarkers as tracers of Hg sources in lake sediments. *Biogeochemistry*, **2011**, 103, 235-244	3.8	32
76	The gap between scientists and journalists: the case of mercury science in Québec press. *Public Understanding of Science*, **2010**, 19, 70-79	3.1	31
75	Integrated transfers of terrigenous organic matter to lakes at their watershed level: A combined biomarker and GIS analysis. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 6375-6386	5.5	20
74	Relationship between Mercury Concentration and Growth Rates for Walleyes, Northern Pike, and Lake Trout from Quebec Lakes. *North American Journal of Fisheries Management*, **2010**, 30, 1221-1237	1.1	26
73	Influence of functional feeding groups and spatiotemporal variables on the δ15N signature of littoral macroinvertebrates. *Hydrobiologia*, **2010**, 647, 51-61	2.4	12
72	Modeling the carbon dynamics of the La Grande hydroelectric complex in northern Quebec. *Ecological Modelling*, **2010**, 221, 610-620	3	19
71	Early Hg mobility in cultivated tropical soils one year after slash-and-burn of the primary forest, in the Brazilian Amazon. *Science of the Total Environment*, **2009**, 407, 4480-9	10.2	28
70	Sources of organic matter and methylmercury in littoral macroinvertebrates: a stable isotope approach. *Biogeochemistry*, **2009**, 94, 81-94	3.8	30
69	Lignin biomarkers as tracers of mercury sources in lakes water column. *Biogeochemistry*, **2009**, 94, 123-140	3.8	22
68	Daily mercury intake in fish-eating populations in the Brazilian Amazon. *Journal of Exposure Science and Environmental Epidemiology*, **2008**, 18, 76-87	6.7	85
67	Ecosystem matters: fish consumption, mercury intake and exposure among fluvial lake fish-eaters. *Science of the Total Environment*, **2008**, 407, 154-64	10.2	20
66	Toxicological effects of methylmercury on walleye (Sander vitreus) and perch (Perca flavescens) from lakes of the boreal forest. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2008**, 147, 139-49	3.2	43
65	Assessing the importance of macroinvertebrate trophic dead ends in the lower transfer of methylmercury in littoral food webs. *Canadian Journal of Fisheries and Aquatic Sciences*, **2008**, 65, 2043-2052	2.4	27

64	Evaluation of two current approaches for the measurement of carbon dioxide diffusive fluxes from lentic ecosystems. *Environmental Science & Technology*, **2008**, 42, 2964-9	10.3	20
63	Elemental, isotopic, and spectroscopic assessment of chemical fractionation of dissolved organic matter sampled with a portable reverse osmosis system. *Environmental Science & Technology*, **2008**, 42, 2490-5	10.3	12
62	Emergence and robustness of a community discussion network on mercury contamination and health in the Brazilian Amazon. *Health Education and Behavior*, **2008**, 35, 509-21	4.2	20
61	Biomass and composition of macroinvertebrate communities associated with different types of macrophyte architectures and habitats in a large fluvial lake. *Fundamental and Applied Limnology*, **2008**, 171, 119-130	1.9	52
60	Regional and Seasonal Inputs of Mercury into Lake St. Pierre (St. Lawrence River), a Major Commercial and Sports Fisheries in Canada. *Water, Air, and Soil Pollution*, **2008**, 195, 85-97	2.6	3
59	Nutrient and mercury variations in soils from family farms of the Tapajós region (Brazilian Amazon): Recommendations for better farming. *Agriculture, Ecosystems and Environment*, **2007**, 120, 449-462	5.7	25
58	Photomineralization in a boreal hydroelectric reservoir: a comparison with natural aquatic ecosystems. *Biogeochemistry*, **2007**, 86, 123-135	3.8	18
57	Recovery of mercury-contaminated fisheries. *Ambio*, **2007**, 36, 33-44	6.5	233
56	Elevated blood selenium levels in the Brazilian Amazon. *Science of the Total Environment*, **2006**, 366, 101-112	10.2	45
55	Influence of intensive fishing on the partitioning of mercury and methylmercury in three lakes of Northern Québec. *Science of the Total Environment*, **2006**, 368, 248-61	10.2	17
54	Mercury release from deforested soils triggered by base cation enrichment. *Science of the Total Environment*, **2006**, 368, 19-29	10.2	47
53	New evidence on the effects of tea on mercury metabolism in humans. *Archives of Environmental and Occupational Health*, **2006**, 61, 232-8	2	22
52	New evidence on variations of human body burden of methylmercury from fish consumption. *Environmental Health Perspectives*, **2006**, 114, 302-6	8.4	75
51	Translocation of soil organic matter following reservoir impoundment in boreal systems: Implications for in situ productivity. *Limnology and Oceanography*, **2006**, 51, 1497-1513	4.8	93
50	First assessment of methane and carbon dioxide emissions from shallow and deep zones of boreal reservoirs upon ice break-up. *Lakes and Reservoirs: Research and Management*, **2006**, 11, 9-19	1.2	16
49	Mercury Concentrations in Lake Sediments □Revisiting the Predictive Power of Catchment Morphometry and Organic Matter Composition. *Water, Air, and Soil Pollution*, **2006**, 170, 173-189	2.6	35
48	Mercury transfer from fish carcasses to scavengers in boreal lakes: the use of stable isotopes of mercury. *Environmental Pollution*, **2005**, 134, 13-22	9.3	19
47	Fish growth rates modulate mercury concentrations in walleye (Sander vitreus) from eastern Canadian lakes. *Environmental Research*, **2005**, 98, 73-82	7.9	146

46	Network Approach for Analyzing and Promoting Equity in Participatory Ecohealth Research. *EcoHealth*, **2005**, 2, 113-126	3.1	46
45	An Ecosystem Approach to Describe the Mercury Issue in Canada: From Mercury Sources to Human Health **2005**, 451-466		2
44	Mercury in Fish-eating Communities of the Andean Amazon, Napo River Valley, Ecuador. *EcoHealth*, **2004**, 1, SU59-SU71	3.1	17
43	Environmental biomonitoring using cytogenetic endpoints in a population exposed to mercury in the Brazilian Amazon. *Environmental and Molecular Mutagenesis*, **2004**, 44, 346-9	3.2	8
42	Greenhouse gas emissions from reservoirs of the western United States. *Global Biogeochemical Cycles*, **2004**, 18, n/a-n/a	5.9	100
41	Eating tropical fruit reduces mercury exposure from fish consumption in the Brazilian Amazon. *Environmental Research*, **2003**, 93, 123-30	7.9	82
40	Relationships between organic matter composition and methyl mercury content of offshore and carbon-rich littoral sediments in an oligotrophic lake. *Canadian Journal of Fisheries and Aquatic Sciences*, **2003**, 60, 888-896	2.4	45
39	Can flooded organic matter from sediments predict mercury concentrations in zooplankton of a perturbed lake?. *Science of the Total Environment*, **2002**, 293, 151-61	10.2	14
38	Methyl mercury in zooplankton?the role of size, habitat, and food quality. *Canadian Journal of Fisheries and Aquatic Sciences*, **2002**, 59, 1606-1615	2.4	44
37	Deforestation modifying terrestrial organic transport in the Rio Tapaj□, Brazilian Amazon. *Organic Geochemistry*, **2001**, 32, 1443-1458	3.1	107
36	Sequential analysis of hair mercury levels in relation to fish diet of an Amazonian population, Brazil. *Science of the Total Environment*, **2001**, 271, 87-97	10.2	103
35	History of the atmospheric deposition of major and trace elements in the industrialized St. Lawrence Valley, Quebec, Canada. *Atmospheric Environment*, **2000**, 34, 1797-1810	5.3	37
34	The Differential Geochemical Behavior of Arsenic and Phosphorus in the Water Column and Sediments of the Saguenay Fjord Estuary, Canada. *Aquatic Geochemistry*, **2000**, 6, 293-324	1.7	54
33	Cytogenetic damage related to low levels of methyl mercury contamination in the Brazilian Amazon. *Anais Da Academia Brasileira De Ciencias*, **2000**, 72, 497-507	1.4	79
32	Increase in mercury contamination recorded in lacustrine sediments following deforestation in the central Amazon. *Chemical Geology*, **2000**, 165, 243-266	4.2	102
31	The use of stable carbon isotopes to evaluate the importance of fine suspended particulate matter in the transfer of methylmercury to biota in boreal flooded environments. *Science of the Total Environment*, **2000**, 261, 33-41	10.2	31
30	Methylmercury in water, seston, and epiphyton of an Amazonian river and its floodplain, Tapaj□ River, Brazil. *Science of the Total Environment*, **2000**, 261, 43-59	10.2	84
29	Mercury methylation along a lake-forest transect in the Tapaj□ river floodplain, Brazilian Amazon: seasonal and vertical variations. *Science of the Total Environment*, **2000**, 261, 91-8	10.2	83

28	Effects of Recent Human Colonization on the Presence of Mercury in Amazonian Ecosystems. *Water, Air, and Soil Pollution*, **1999**, 112, 297-313	2.6	141
27	Historical and geographical variations of sources and transport of terrigenous organic matter within a large-scale coastal environment. *Organic Geochemistry*, **1999**, 30, 675-699	3.1	85
26	Mercury Dynamics at the Flooded Soil-Water Interface in Reservoirs of Northern Qu□bec: in Situ Observations **1999**, 165-189		6
25	A historical reconstruction of organic and inorganic contamination events in the Saguenay Fjord/St. Lawrence system from preindustrial times to the present. *Science of the Total Environment*, **1998**, 213, 139-150	10.2	20
24	Distribution and partition of total mercury in waters of the Tapaj□ River Basin, Brazilian Amazon1The present investigation is part of an ongoing study, the CARUSO project (CRDI-UFPa-UQAM), initiated to determine the sources, fate and health effects of the presence of MeHg in the area of the Lower Tapaj□1. *Science of the Total Environment*, **1998**, 213, 203-211	10.2	76
23	Total mercury and methylmercury fluxes via emerging insects in recently flooded hydroelectric reservoirs and a natural lake. *Science of the Total Environment*, **1998**, 219, 209-221	10.2	35
22	The geochemistry of mercury in central Amazonian soils developed on the Alter-do-Ch□ formation of the lower Tapaj□ River Valley, Par□state, Brazil. *Science of the Total Environment*, **1998**, 223, 1-24	10.2	166
21	Neurotoxic effects of low-level methylmercury contamination in the Amazonian Basin. *Environmental Research*, **1998**, 79, 20-32	7.9	235
20	Sources and early diagenesis of lignin and bulk organic matter in the sediments of the Lower St. Lawrence Estuary and the Saguenay Fjord. *Marine Chemistry*, **1997**, 58, 3-26	3.7	82
19	Total Mercury and Methylmercury Contents of Insects from Boreal Lakes: Ecological, Spatial and Temporal Patterns. *Water Quality Research Journal of Canada*, **1996**, 31, 851-873	1.7	24
18	Geochemistry of mercury in pristine and flooded ferralitic soils of a tropical rain forest in French Guiana, South America. *Water, Air, and Soil Pollution*, **1995**, 80, 1079-1088	2.6	80
17	Production of the greenhouse gases CH4 and CO2 by hydroelectric reservoirs of the boreal region. *Global Biogeochemical Cycles*, **1995**, 9, 529-540	5.9	116
16	Geochemistry of Mercury in Pristine and Flooded Ferralitic Soils of a Tropical Rain Forest in French Guiana, South America **1995**, 1079-1088		1
15	Mercury remobilization from flooded soils in a hydroelectric reservoir of northern Quebec, La Grande-2: results of a soil resuspension experiment. *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 2507-2517	2.4	64
14	Total dissolved mercury in the water column of several natural and artificial aquatic systems of Northern Quebec (Canada). *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 2483-2492	2.4	29
13	Mercury and lead profiles and burdens in soils of Quebec (Canada) before and after flooding. *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 2493-2506	2.4	31
12	The Labrador Sea during the late Quaternary: Introduction. *Canadian Journal of Earth Sciences*, **1994** , 31, 1-4	1.5	14
11	Productivit□et flux de carbone dans la mer du Labrador au cours des derniers 40 000 ans. *Canadian Journal of Earth Sciences*, **1994**, 31, 139-158	1.5	47

10	Early diagenetic processes in deep Labrador Sea sediments: reactive and nonreactive iron and phosphorus. *Canadian Journal of Earth Sciences*, **1994**, 31, 14-27	1.5	48
9	Identification et distribution des grandes masses d'eau dans les mers du Labrador et d'Irminger. *Canadian Journal of Earth Sciences*, **1994**, 31, 5-13	1.5	31
8	Geochemistry of Mercury in Two Hydroelectric Reservoirs in Quebec, Canada. *Canadian Journal of Fisheries and Aquatic Sciences*, **1993**, 50, 269-281	2.4	57
7	First-order organic carbon budget in the St Lawrence Lower estuary from 13C data. *Estuarine, Coastal and Shelf Science*, **1991**, 32, 297-312	2.9	31
6	Phosphorus Reservoirs in the St. Lawrence Upper Estuary. *Canadian Journal of Fisheries and Aquatic Sciences*, **1989**, 46, 59-65	2.4	9
5	Processes controlling phosphate adsorption by iron hydroxides in estuaries. *Chemical Geology*, **1988**, 67, 75-83	4.2	30
4	Seasonal control of the Saint-Lawrence maximum turbidity zone by tidal-flat sedimentation. *Estuaries and Coasts*, **1986**, 9, 84		35
3	A comparison of several methods for the determination of iron hydroxides and associated orthophosphates in estuarine particulate matter. *Chemical Geology*, **1985**, 48, 257-264	4.2	69
2	Forms of phosphorus and phosphorus–iron relationships in the suspended matter of the St. Lawrence Estuary. *Canadian Journal of Earth Sciences*, **1983**, 20, 1880-1890	1.5	26
1	Hydroelectric Reservoirs as Anthropogenic Sources of Greenhouse Gases203		9