

# Marc Lucotte

## List of Publications by Citations

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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	Neurotoxic effects of low-level methylmercury contamination in the Amazonian Basin. <i>Environmental Research</i> , <b>1998</b> , 79, 20-32	7.9	235
116	Recovery of mercury-contaminated fisheries. <i>Ambio</i> , <b>2007</b> , 36, 33-44	6.5	233
115	The geochemistry of mercury in central Amazonian soils developed on the Alter-do-Chão formation of the lower Tapajó River Valley, Pará state, Brazil. <i>Science of the Total Environment</i> , <b>1998</b> , 223, 1-24	10.2	166
114	Alteration of plant physiology by glyphosate and its by-product aminomethylphosphonic acid: an overview. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 4691-703	7	153
113	Fish growth rates modulate mercury concentrations in walleye ( <i>Sander vitreus</i> ) from eastern Canadian lakes. <i>Environmental Research</i> , <b>2005</b> , 98, 73-82	7.9	146
112	Effects of Recent Human Colonization on the Presence of Mercury in Amazonian Ecosystems. <i>Water, Air, and Soil Pollution</i> , <b>1999</b> , 112, 297-313	2.6	141
111	Production of the greenhouse gases CH <sub>4</sub> and CO <sub>2</sub> by hydroelectric reservoirs of the boreal region. <i>Global Biogeochemical Cycles</i> , <b>1995</b> , 9, 529-540	5.9	116
110	Deforestation modifying terrestrial organic transport in the Rio Tapajó, Brazilian Amazon. <i>Organic Geochemistry</i> , <b>2001</b> , 32, 1443-1458	3.1	107
109	Sequential analysis of hair mercury levels in relation to fish diet of an Amazonian population, Brazil. <i>Science of the Total Environment</i> , <b>2001</b> , 271, 87-97	10.2	103
108	Increase in mercury contamination recorded in lacustrine sediments following deforestation in the central Amazon. <i>Chemical Geology</i> , <b>2000</b> , 165, 243-266	4.2	102
107	Differential effects of glyphosate and aminomethylphosphonic acid (AMPA) on photosynthesis and chlorophyll metabolism in willow plants. <i>Pesticide Biochemistry and Physiology</i> , <b>2016</b> , 130, 65-70	4.9	100
106	Greenhouse gas emissions from reservoirs of the western United States. <i>Global Biogeochemical Cycles</i> , <b>2004</b> , 18, n/a-n/a	5.9	100
105	Translocation of soil organic matter following reservoir impoundment in boreal systems: Implications for in situ productivity. <i>Limnology and Oceanography</i> , <b>2006</b> , 51, 1497-1513	4.8	93
104	Daily mercury intake in fish-eating populations in the Brazilian Amazon. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2008</b> , 18, 76-87	6.7	85
103	Historical and geographical variations of sources and transport of terrigenous organic matter within a large-scale coastal environment. <i>Organic Geochemistry</i> , <b>1999</b> , 30, 675-699	3.1	85
102	Methylmercury in water, seston, and epiphyton of an Amazonian river and its floodplain, Tapajó River, Brazil. <i>Science of the Total Environment</i> , <b>2000</b> , 261, 43-59	10.2	84
101	Mercury methylation along a lake-forest transect in the Tapajó river floodplain, Brazilian Amazon: seasonal and vertical variations. <i>Science of the Total Environment</i> , <b>2000</b> , 261, 91-8	10.2	83

100	Sources and early diagenesis of lignin and bulk organic matter in the sediments of the Lower St. Lawrence Estuary and the Saguenay Fjord. <i>Marine Chemistry</i> , <b>1997</b> , 58, 3-26	3.7	82
99	Eating tropical fruit reduces mercury exposure from fish consumption in the Brazilian Amazon. <i>Environmental Research</i> , <b>2003</b> , 93, 123-30	7.9	82
98	Geochemistry of mercury in pristine and flooded ferralitic soils of a tropical rain forest in French Guiana, South America. <i>Water, Air, and Soil Pollution</i> , <b>1995</b> , 80, 1079-1088	2.6	80
97	Cytogenetic damage related to low levels of methyl mercury contamination in the Brazilian Amazon. <i>Anais Da Academia Brasileira De Ciencias</i> , <b>2000</b> , 72, 497-507	1.4	79
96	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�. <i>Science of the Total Environment</i> , <b>1998</b> , 213, 203-211	10.2	76
95	New evidence on variations of human body burden of methylmercury from fish consumption. <i>Environmental Health Perspectives</i> , <b>2006</b> , 114, 302-6	8.4	75
94	A comparison of several methods for the determination of iron hydroxides and associated orthophosphates in estuarine particulate matter. <i>Chemical Geology</i> , <b>1985</b> , 48, 257-264	4.2	69
93	Mercury remobilization from flooded soils in a hydroelectric reservoir of northern Quebec, La Grande-2: results of a soil resuspension experiment. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1995</b> , 52, 2507-2517	2.4	64
92	Glyphosate-Dependent Inhibition of Photosynthesis in Willow. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 207	6.2	57
91	Geochemistry of Mercury in Two Hydroelectric Reservoirs in Quebec, Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1993</b> , 50, 269-281	2.4	57
90	The Differential Geochemical Behavior of Arsenic and Phosphorus in the Water Column and Sediments of the Saguenay Fjord Estuary, Canada. <i>Aquatic Geochemistry</i> , <b>2000</b> , 6, 293-324	1.7	54
89	Biomass and composition of macroinvertebrate communities associated with different types of macrophyte architectures and habitats in a large fluvial lake. <i>Fundamental and Applied Limnology</i> , <b>2008</b> , 171, 119-130	1.9	52
88	Early diagenetic processes in deep Labrador Sea sediments: reactive and nonreactive iron and phosphorus. <i>Canadian Journal of Earth Sciences</i> , <b>1994</b> , 31, 14-27	1.5	48
87	Mercury release from deforested soils triggered by base cation enrichment. <i>Science of the Total Environment</i> , <b>2006</b> , 368, 19-29	10.2	47
86	Productivit� et flux de carbone dans la mer du Labrador au cours des derniers 40 000 ans. <i>Canadian Journal of Earth Sciences</i> , <b>1994</b> , 31, 139-158	1.5	47
85	Network Approach for Analyzing and Promoting Equity in Participatory Ecohealth Research. <i>EcoHealth</i> , <b>2005</b> , 2, 113-126	3.1	46
84	Elevated blood selenium levels in the Brazilian Amazon. <i>Science of the Total Environment</i> , <b>2006</b> , 366, 1011-1012	10.2	45
83	Relationships between organic matter composition and methyl mercury content of offshore and carbon-rich littoral sediments in an oligotrophic lake. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2003</b> , 60, 888-896	2.4	45

82	Impact of phosphate on glyphosate uptake and toxicity in willow. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 304, 269-79	12.8	44
81	Methyl mercury in zooplankton?the role of size, habitat, and food quality. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2002</b> , 59, 1606-1615	2.4	44
80	Toxicological effects of methylmercury on walleye ( <i>Sander vitreus</i> ) and perch ( <i>Perca flavescens</i> ) from lakes of the boreal forest. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2008</b> , 147, 139-49	3.2	43
79	Effects of low concentrations of glyphosate-based herbicide factor 540 on an agricultural stream freshwater phytoplankton community. <i>Chemosphere</i> , <b>2018</b> , 192, 133-141	8.4	39
78	History of the atmospheric deposition of major and trace elements in the industrialized St. Lawrence Valley, Quebec, Canada. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1797-1810	5.3	37
77	Physicochemical properties of soils in the Brazilian Amazon following fire-free land preparation and slash-and-burn practices. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 156, 108-115	5.7	35
76	Total mercury and methylmercury fluxes via emerging insects in recently flooded hydroelectric reservoirs and a natural lake. <i>Science of the Total Environment</i> , <b>1998</b> , 219, 209-221	10.2	35
75	Mercury Concentrations in Lake Sediments [Revisiting the Predictive Power of Catchment Morphometry and Organic Matter Composition. <i>Water, Air, and Soil Pollution</i> , <b>2006</b> , 170, 173-189	2.6	35
74	Seasonal control of the Saint-Lawrence maximum turbidity zone by tidal-flat sedimentation. <i>Estuaries and Coasts</i> , <b>1986</b> , 9, 84		35
73	Terrestrial organic matter biomarkers as tracers of Hg sources in lake sediments. <i>Biogeochemistry</i> , <b>2011</b> , 103, 235-244	3.8	32
72	The gap between scientists and journalists: the case of mercury science in Québec press. <i>Public Understanding of Science</i> , <b>2010</b> , 19, 70-79	3.1	31
71	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. <i>Science of the Total Environment</i> , <b>2000</b> , 261, 33-41	10.2	31
70	Mercury and lead profiles and burdens in soils of Quebec (Canada) before and after flooding. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1995</b> , 52, 2493-2506	2.4	31
69	Identification et distribution des grandes masses d'eau dans les mers du Labrador et d'Irminger. <i>Canadian Journal of Earth Sciences</i> , <b>1994</b> , 31, 5-13	1.5	31
68	First-order organic carbon budget in the St Lawrence Lower estuary from 13C data. <i>Estuarine, Coastal and Shelf Science</i> , <b>1991</b> , 32, 297-312	2.9	31
67	Sources of organic matter and methylmercury in littoral macroinvertebrates: a stable isotope approach. <i>Biogeochemistry</i> , <b>2009</b> , 94, 81-94	3.8	30
66	Processes controlling phosphate adsorption by iron hydroxides in estuaries. <i>Chemical Geology</i> , <b>1988</b> , 67, 75-83	4.2	30
65	Total dissolved mercury in the water column of several natural and artificial aquatic systems of Northern Quebec (Canada). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1995</b> , 52, 2483-2492	2.4	29

64	Early Hg mobility in cultivated tropical soils one year after slash-and-burn of the primary forest, in the Brazilian Amazon. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 4480-9	10.2	28
63	Assessing the importance of macroinvertebrate trophic dead ends in the lower transfer of methylmercury in littoral food webs. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>2008</b> , 65, 2043-2052	2.4	27
62	Relationship between Mercury Concentration and Growth Rates for Walleyes, Northern Pike, and Lake Trout from Quebec Lakes. <i>North American Journal of Fisheries Management</i> , <b>2010</b> , 30, 1221-1237	1.1	26
61	Forms of phosphorus and phosphorus-iron relationships in the suspended matter of the St. Lawrence Estuary. <i>Canadian Journal of Earth Sciences</i> , <b>1983</b> , 20, 1880-1890	1.5	26
60	Mercury and flooding cycles in the Tapaj� River basin, Brazilian Amazon: the role of periphyton of a floating macrophyte ( <i>Paspalum repens</i> ). <i>Science of the Total Environment</i> , <b>2011</b> , 409, 2746-53	10.2	25
59	Nutrient and mercury variations in soils from family farms of the Tapaj� region (Brazilian Amazon): Recommendations for better farming. <i>Agriculture, Ecosystems and Environment</i> , <b>2007</b> , 120, 449-462	5.7	25
58	Phytoplankton growth and PSII efficiency sensitivity to a glyphosate-based herbicide (Factor 540). <i>Aquatic Toxicology</i> , <b>2017</b> , 192, 265-273	5.1	24
57	Total Mercury and Methylmercury Contents of Insects from Boreal Lakes: Ecological, Spatial and Temporal Patterns. <i>Water Quality Research Journal of Canada</i> , <b>1996</b> , 31, 851-873	1.7	24
56	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. <i>Human Ecology</i> , <b>2014</b> , 42, 521-540	2	23
55	Mercury and methylmercury concentrations in high altitude lakes and fish (Arctic charr) from the French Alps related to watershed characteristics. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 1909-15	10.2	22
54	Lignin biomarkers as tracers of mercury sources in lakes water column. <i>Biogeochemistry</i> , <b>2009</b> , 94, 123-140	3.0	22
53	New evidence on the effects of tea on mercury metabolism in humans. <i>Archives of Environmental and Occupational Health</i> , <b>2006</b> , 61, 232-8	2	22
52	Agroforestry systems as a profitable alternative to slash and burn practices in small-scale agriculture of the Brazilian Amazon. <i>Agroforestry Systems</i> , <b>2015</b> , 89, 193-204	2	21
51	Ecology of <i>Rhodnius robustus</i> Larrouse, 1927 (Hemiptera, Reduviidae, Triatominae) in <i>Attalea</i> palm trees of the Tapaj� River Region (Par� State, Brazilian Amazon). <i>Parasites and Vectors</i> , <b>2014</b> , 7, 154	4	21
50	Integrated transfers of terrigenous organic matter to lakes at their watershed level: A combined biomarker and GIS analysis. <i>Geochimica Et Cosmochimica Acta</i> , <b>2010</b> , 74, 6375-6386	5.5	20
49	A historical reconstruction of organic and inorganic contamination events in the Saguenay Fjord/St. Lawrence system from preindustrial times to the present. <i>Science of the Total Environment</i> , <b>1998</b> , 213, 139-150	10.2	20
48	Ecosystem matters: fish consumption, mercury intake and exposure among fluvial lake fish-eaters. <i>Science of the Total Environment</i> , <b>2008</b> , 407, 154-64	10.2	20
47	Evaluation of two current approaches for the measurement of carbon dioxide diffusive fluxes from lentic ecosystems. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2964-9	10.3	20

46	Emergence and robustness of a community discussion network on mercury contamination and health in the Brazilian Amazon. <i>Health Education and Behavior</i> , <b>2008</b> , 35, 509-21	4.2	20
45	Reduction of soil erosion and mercury losses in agroforestry systems compared to forests and cultivated fields in the Brazilian Amazon. <i>Journal of Environmental Management</i> , <b>2017</b> , 203, 522-532	7.9	19
44	Modeling the carbon dynamics of the La Grande hydroelectric complex in northern Quebec. <i>Ecological Modelling</i> , <b>2010</b> , 221, 610-620	3	19
43	Mercury transfer from fish carcasses to scavengers in boreal lakes: the use of stable isotopes of mercury. <i>Environmental Pollution</i> , <b>2005</b> , 134, 13-22	9.3	19
42	Herbaceous or <i>Salix miyabeana</i> 'SX64' narrow buffer strips as a means to minimize glyphosate and aminomethylphosphonic acid leaching from row crop fields. <i>Science of the Total Environment</i> , <b>2017</b> , 598, 1177-1186	10.2	18
41	Photomineralization in a boreal hydroelectric reservoir: a comparison with natural aquatic ecosystems. <i>Biogeochemistry</i> , <b>2007</b> , 86, 123-135	3.8	18
40	Lignin biomarkers signatures of common plants and soils of Eastern Canada. <i>Biogeochemistry</i> , <b>2016</b> , 129, 133-148	3.8	18
39	Influence of intensive fishing on the partitioning of mercury and methylmercury in three lakes of Northern Québec. <i>Science of the Total Environment</i> , <b>2006</b> , 368, 248-61	10.2	17
38	Mercury in Fish-eating Communities of the Andean Amazon, Napo River Valley, Ecuador. <i>EcoHealth</i> , <b>2004</b> , 1, SU59-SU71	3.1	17
37	Combined dynamics of mercury and terrigenous organic matter following impoundment of Churchill Falls Hydroelectric Reservoir, Labrador. <i>Biogeochemistry</i> , <b>2014</b> , 118, 21-34	3.8	16
36	First assessment of methane and carbon dioxide emissions from shallow and deep zones of boreal reservoirs upon ice break-up. <i>Lakes and Reservoirs: Research and Management</i> , <b>2006</b> , 11, 9-19	1.2	16
35	Environmental and Anthropogenic Factors Influencing Mercury Dynamics During the Past Century in Floodplain Lakes of the Tapajó River, Brazilian Amazon. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2017</b> , 72, 11-30	3.2	14
34	Consequences of phosphate application on glyphosate uptake by roots: Impacts for environmental management practices. <i>Science of the Total Environment</i> , <b>2015</b> , 537, 115-9	10.2	14
33	Can flooded organic matter from sediments predict mercury concentrations in zooplankton of a perturbed lake?. <i>Science of the Total Environment</i> , <b>2002</b> , 293, 151-61	10.2	14
32	The Labrador Sea during the late Quaternary: Introduction. <i>Canadian Journal of Earth Sciences</i> , <b>1994</b> , 31, 1-4	1.5	14
31	Deciphering the impact of land-uses on terrestrial organic matter and mercury inputs to large boreal lakes of central Québec using lignin biomarkers. <i>Applied Geochemistry</i> , <b>2014</b> , 41, 34-48	3.5	13
30	Glyphosate and Aminomethylphosphonic Acid Content in Glyphosate-Resistant Soybean Leaves, Stems, and Roots and Associated Phytotoxicity Following a Single Glyphosate-Based Herbicide Application. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 6133-6142	5.7	12
29	Influence of functional feeding groups and spatiotemporal variables on the $\delta^{15}N$ signature of littoral macroinvertebrates. <i>Hydrobiologia</i> , <b>2010</b> , 647, 51-61	2.4	12

28	Elemental, isotopic, and spectroscopic assessment of chemical fractionation of dissolved organic matter sampled with a portable reverse osmosis system. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2490-5	10.3	12
27	Glyphosate Can Decrease Germination of Glyphosate-Resistant Soybeans. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 2279-2286	5.7	11
26	Mercury sources and bioavailability in lakes located in the mining district of Chibougamau, eastern Canada. <i>Applied Geochemistry</i> , <b>2011</b> , 26, 230-241	3.5	11
25	Potential Efficiency of Grassy or Shrub Willow Buffer Strips against Nutrient Runoff from Soybean and Corn Fields in Southern Quebec, Canada. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 352-361	3.4	11
24	High yields of riparian buffer strips planted with <i>Salix miyabena</i> along field crops in Québec, Canada. <i>Biomass and Bioenergy</i> , <b>2017</b> , 105, 219-229	5.3	10
23	Impact of forested fallows on fertility and mercury content in soils of the Tapajó River region, Brazilian Amazon. <i>Science of the Total Environment</i> , <b>2013</b> , 458-460, 228-37	10.2	9
22	Spatial and temporal evolution of family-farming land use in the Tapajó region of the Brazilian Amazon. <i>Acta Amazonica</i> , <b>2015</b> , 45, 203-214	0.8	9
21	Phosphorus Reservoirs in the St. Lawrence Upper Estuary. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1989</b> , 46, 59-65	2.4	9
20	Climate and Physiography Predict Mercury Concentrations in Game Fish Species in Quebec Lakes Better than Anthropogenic Disturbances. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2016</b> , 70, 710-23	3.2	9
19	Hydroelectric Reservoirs as Anthropogenic Sources of Greenhouse Gases		9
18	Environmental biomonitoring using cytogenetic endpoints in a population exposed to mercury in the Brazilian Amazon. <i>Environmental and Molecular Mutagenesis</i> , <b>2004</b> , 44, 346-9	3.2	8
17	The carbon cycle of Quebec boreal reservoirs investigated by elemental compositions and isotopic values. <i>Biogeochemistry</i> , <b>2012</b> , 111, 555-568	3.8	7
16	Assessing carbon dynamics in natural and perturbed boreal aquatic systems. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		7
15	Impacts of Land Uses on Mercury Retention in Long-Time Cultivated Soils, Brazilian Amazon. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	7
14	Altered nature of terrestrial organic matter transferred to aquatic systems following deforestation in the Amazon. <i>Applied Geochemistry</i> , <b>2017</b> , 87, 136-145	3.5	6
13	Mercury Dynamics at the Flooded Soil-Water Interface in Reservoirs of Northern Québec: in Situ Observations		6
12	Blood antioxidant nutrients in riparian villagers of the Brazilian Amazon: its associations with wet/dry seasons and modulation by sociodemographic determinants. <i>Cadernos Saude Coletiva</i> , <b>2016</b> , 24, 21-31	0.3	6
11	Rural development and shifts in household dietary practices from 1999 to 2010 in the Tapajó River region, Brazilian Amazon: empirical evidence from dietary surveys. <i>Globalization and Health</i> , <b>2020</b> , 16, 36	10	4

10	Regional and Seasonal Inputs of Mercury into Lake St. Pierre (St. Lawrence River), a Major Commercial and Sports Fisheries in Canada. <i>Water, Air, and Soil Pollution</i> , <b>2008</b> , 195, 85-97	2.6	3
9	Rural livelihood trajectories in the central Brazilian Amazon: Growing inequalities, changing practices, and emerging rural-urban relationships over nearly a decade. <i>World Development Perspectives</i> , <b>2018</b> , 10-12, 34-43	1.7	3
8	An Ecosystem Approach to Describe the Mercury Issue in Canada: From Mercury Sources to Human Health <b>2005</b> , 451-466		2
7	Geochemistry of Mercury in Pristine and Flooded Ferralitic Soils of a Tropical Rain Forest in French Guiana, South America <b>1995</b> , 1079-1088		1
6	Dissipation and impact of glyphosate during composting of organic wastes.. <i>Journal of Environmental Quality</i> , <b>2022</b> ,	3.4	1
5	Weed management strategies effect on glyphosate-tolerant maize and soybean yields and quality <b>2020</b> , 3, e20088		1
4	Terrestrial Organic Matter Inputs to Nearshore Marine Sediment Under Prolonged Drought Followed by Significant Rainfall as Indicated by Lignin. <i>Estuaries and Coasts</i> , <b>2021</b> , 44, 2159	2.8	0
3	Représentations sociales chrétiennes, santé et environnement en Amazonie brésilienne. <i>Sustentabilidade Em Debate</i> , <b>2018</b> , 9, 111-124	0.3	
2	Impact of weed management practices on soil biological activity in corn and soybean field crops in Québec (Canada). <i>Canadian Journal of Soil Science</i> , <b>2021</b> , 101, 12-21	1.4	
1	Impact of Soil Characteristics and Weed Management Practices on Glyphosate and AMPA Persistence in Field Crops Soils from the St. Lawrence Lowlands (Quebec, Canada). <i>Agronomy</i> , <b>2022</b> , 12, 992	3.6	