Marc Lucotte

List of Publications by Year
in descending order

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117 papers	5,782 citations	76322 40 h-index	85537 71 g-index
120 all docs	120 docs citations	120 times ranked	4974 citing authors

#	Article	IF	Citations
1	Neurotoxic Effects of Low-Level Methylmercury Contamination in the Amazonian Basin. Environmental Research, 1998, 79, 20-32.	7.5	267
2	Recovery of Mercury-Contaminated Fisheries. Ambio, 2007, 36, 33-44.	5.5	255
3	Alteration of plant physiology by glyphosate and its by-product aminomethylphosphonic acid: an overview. Journal of Experimental Botany, 2014, 65, 4691-4703.	4.8	239
4	The geochemistry of mercury in central Amazonian soils developed on the Alter-do-ChÃ£o formation of the lower TapajÃ³s River Valley, ParÃ¡ state, Brazil1The present investigation is part of an ongoing study, the CARUSO project (IDRC-UFPa-UQAM), initiated to determine the sources, fate, and health effects of MeHg in the Lower TapajÃ³s area.1. Science of the Total Environment, 1998, 223, 1-24.	8.0	203
5	Effects of Recent Human Colonization on the Presence of Mercury in Amazonian Ecosystems. Water, Air, and Soil Pollution, 1999, 112, 297-313.	2.4	184
6	Fish growth rates modulate mercury concentrations in walleye (Sander vitreus) from eastern Canadian lakes. Environmental Research, 2005, 98, 73-82.	7.5	164
7	Production of the greenhouse gases CH4and CO2by hydroelectric reservoirs of the boreal region. Global Biogeochemical Cycles, 1995, 9, 529-540.	4.9	146
8	Differential effects of glyphosate and aminomethylphosphonic acid (AMPA) on photosynthesis and chlorophyll metabolism in willow plants. Pesticide Biochemistry and Physiology, 2016, 130, 65-70.	3.6	135
9	Increase in mercury contamination recorded in lacustrine sediments following deforestation in the central 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 TapajÃ³s.1. Chemical Geology, 2000, 165, 243-266.	3.3	121
10	Deforestation modifying terrestrial organic transport in the Rio TapajÃ³s, Brazilian Amazon. Organic Geochemistry, 2001, 32, 1443-1458.	1.8	120
11	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.	8.0	116
12	Greenhouse gas emissions from reservoirs of the western United States. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	116
13	Methylmercury in water, seston, and epiphyton of an Amazonian river and its floodplain, TapajÃƒÂ³s River, Brazil. Science of the Total Environment, 2000, 261, 43-59.	8.0	106
14	Translocation of soil organic matter following reservoir impoundment in boreal systems: Implications for in situ productivity. Limnology and Oceanography, 2006, 51, 1497-1513.	3.1	106
15	Daily mercury intake in fish-eating populations in the Brazilian Amazon. Journal of Exposure Science and Environmental Epidemiology, 2008, 18, 76-87.	3.9	106
16	Distribution and partition of total mercury in waters of the TapajÃ³s 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 TapajÃ³s.1. Science of the Total Environment, 1998, 213, 203-211.	8.0	102
17	Mercury methylation along a lakeÃ¢Â€Â“forest transect in the TapajÃƒÂ³s river floodplain, Brazilian Amazon: seasonal and vertical variations. Science of the Total Environment, 2000, 261, 91-98.	8.0	101
18	Glyphosate-Dependent Inhibition of Photosynthesis in Willow. Frontiers in Plant Science, 2017, 8, 207.	3.6	99

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19	Historical and geographical variations of sources and transport of terrigenous organic matter within a large-scale coastal environment. Organic Geochemistry, 1999, 30, 675-699.	1.8	97
20	Cytogenetic damage related to low levels of methyl mercury contamination in the Brazilian Amazon. Anais Da Academia Brasileira De Ciencias, 2000, 72, 497-507.	0.8	96
21	Eating tropical fruit reduces mercury exposure from fish consumption in the Brazilian Amazon. Environmental Research, 2003, 93, 123-130.	7.5	96
22	New Evidence on Variations of Human Body Burden of Methylmercury from Fish Consumption. Environmental Health Perspectives, 2006, 114, 302-306.	6.0	91
23	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.	2.3	90
24	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.	2.4	88
25	A comparison of several methods for the determination of iron hydroxides and associated orthophosphates in estuarine particulate matter. Chemical Geology, 1985, 48, 257-264.	3.3	75
26	Geochemistry of Mercury in Two Hydroelectric Reservoirs in Quebec, Canada. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 269-281.	1.4	71
27	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.	1.4	69
28	Effects of low concentrations of glyphosate-based herbicide factor 540Â® on an agricultural stream freshwater phytoplankton community. Chemosphere, 2018, 192, 133-141.	8.2	67
29	Title is missing!. Aquatic Geochemistry, 2000, 6, 293-324.	1.3	65
30	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.	0.7	65
31	Impact of phosphate on glyphosate uptake and toxicity in willow. Journal of Hazardous Materials, 2016, 304, 269-279.	12.4	58
32	Network Approach for Analyzing and Promoting Equity in Participatory Ecohealth Research. EcoHealth, 2005, 2, 113-126.	2.0	56
33	Elevated blood selenium levels in the Brazilian Amazon. Science of the Total Environment, 2006, 366, 101-111.	8.0	55
34	Mercury release from deforested soils triggered by base cation enrichment. Science of the Total Environment, 2006, 368, 19-29.	8.0	55
35	Early diagenetic processes in deep Labrador Sea sediments: reactive and nonreactive iron and phosphorus. Canadian Journal of Earth Sciences, 1994, 31, 14-27.	1.3	54
36	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, 139-149.	2.6	53

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37	ProductivitÃ© et flux de carbone dans la mer du Labrador au cours des derniers 40â€‚000 ans. Canadian Journal of Earth Sciences, 1994, 31, 139-158.	1.3	50
38	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.	1.4	48
39	Methyl mercury in zooplanktonÂ—the role of size, habitat, and food quality. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 1606-1615.	1.4	46
40	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.	5.3	46
41	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.	8.0	40
42	History of the atmospheric deposition of major and trace elements in the industrialized St. Lawrence Valley, Quebec, Canada. Atmospheric Environment, 2000, 34, 1797-1810.	4.1	40
43	Mercury Concentrations in Lake Sediments â€“ Revisiting the Predictive Power of Catchment Morphometry and Organic Matter Composition. Water, Air, and Soil Pollution, 2006, 170, 173-189.	2.4	40
44	Seasonal Control of the Saint-Lawrence Maximum Turbidity Zone by Tidal-Flat Sedimentation. Estuaries and Coasts, 1986, 9, 84.	1.7	39
45	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.	1.4	37
46	Sources of organic matter and methylmercury in littoral macroinvertebrates: a stable isotope approach. Biogeochemistry, 2009, 94, 81-94.	3.5	37
47	The gap between scientists and journalists: the case of mercury science in QuÃ©becâ€™s press. Public Understanding of Science, 2010, 19, 70-79.	2.8	37
48	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.	1.4	35
49	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, 4480-4489.	8.0	35
50	Terrestrial organic matter biomarkers as tracers of Hg sources in lake sediments. Biogeochemistry, 2011, 103, 235-244.	3.5	35
51	Forms of phosphorus and phosphorusâ€“iron relationships in the suspended matter of the St. Lawrence Estuary. Canadian Journal of Earth Sciences, 1983, 20, 1880-1890.	1.3	34
52	First-order organic carbon budget in the St Lawrence Lower estuary from 13C data. Estuarine, Coastal and Shelf Science, 1991, 32, 297-312.	2.1	34
53	Processes controlling phosphate adsorption by iron hydroxides in estuaries. Chemical Geology, 1988, 67, 75-83.	3.3	33
54	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.	1.3	33

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55	Phytoplankton growth and PSII efficiency sensitivity to a glyphosate-based herbicide (Factor 540Â®). Aquatic Toxicology, 2017, 192, 265-273.	4.0	33
56	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.	8.0	32
57	Nutrient and mercury variations in soils from family farms of the TapajÃ³s region (Brazilian Amazon): Recommendations for better farming. Agriculture, Ecosystems and Environment, 2007, 120, 449-462.	5.3	32
58	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.	1.0	32
59	Mercury and flooding cycles in the TapajÃ³s river basin, Brazilian Amazon: The role of periphyton of a floating macrophyte (Paspalum repens). Science of the Total Environment, 2011, 409, 2746-2753.	8.0	32
60	Herbaceous or Salix miyabeana â€˜SX64â€™ 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.	8.0	31
61	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.	2.7	31
62	Mercury in Fish-eating Communities of the Andean Amazon, Napo River Valley, Ecuador. EcoHealth, 2004, 1, SU59-SU71.	2.0	30
63	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.	7.8	30
64	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.	1.4	29
65	Mercury transfer from fish carcasses to scavengers in boreal lakes: the use of stable isotopes of mercury. Environmental Pollution, 2005, 134, 13-22.	7.5	28
66	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.	1.4	27
67	Ecology of Rhodnius robustus Larrousse, 1927 (Hemiptera, Reduviidae, Triatominae) in Attalea palm trees of the TapajÃ³s River Region (ParÃ¡ State, Brazilian Amazon). Parasites and Vectors, 2014, 7, 154.	2.5	27
68	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.	2.0	27
69	Lignin biomarkers signatures of common plants and soils of Eastern Canada. Biogeochemistry, 2016, 129, 133-148.	3.5	27
70	Lignin biomarkers as tracers of mercury sources in lakes water column. Biogeochemistry, 2009, 94, 123-140.	3.5	26
71	Emergence and Robustness of a Community Discussion Network on Mercury Contamination and Health in the Brazilian Amazon. Health Education and Behavior, 2008, 35, 509-521.	2.5	25
72	Evaluation of Two Current Approaches for the Measurement of Carbon Dioxide Diffusive Fluxes from Lentic Ecosystems. Environmental Science & Technology, 2008, 42, 2964-2969.	10.0	24

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73	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, 1909-1915.	8.0	24
74	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.	3.9	23
75	Geochemistry of Mercury in Pristine and Flooded Ferralitic Soils of a Tropical Rain Forest in French Guiana, South America. , 1995, , 1079-1088.		22
76	New Evidence on the Effects of Tea on Mercury Metabolism in Humans. Archives of Environmental and Occupational Health, 2006, 61, 232-238.	1.4	22
77	Environmental and Anthropogenic Factors Influencing Mercury Dynamics During the Past Century in Floodplain Lakes of the TapajÃ³s River, Brazilian Amazon. Archives of Environmental Contamination and Toxicology, 2017, 72, 11-30.	4.1	22
78	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.	8.0	21
79	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.	0.9	21
80	Photomineralization in a boreal hydroelectric reservoir: a comparison with natural aquatic ecosystems. Biogeochemistry, 2007, 86, 123-135.	3.5	21
81	Ecosystem matters: Fish consumption, mercury intake and exposure among fluvial lake fish-eaters. Science of the Total Environment, 2008, 407, 154-164.	8.0	21
82	Modeling the carbon dynamics of the La Grande hydroelectric complex in northern Quebec. Ecological Modelling, 2010, 221, 610-620.	2.5	21
83	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.	5.2	21
84	Influence of intensive fishing on the partitioning of mercury and methylmercury in three lakes of Northern QuÃ©bec. Science of the Total Environment, 2006, 368, 248-261.	8.0	18
85	Combined dynamics of mercury and terrigenous organic matter following impoundment of Churchill Falls Hydroelectric Reservoir, Labrador. Biogeochemistry, 2014, 118, 21-34.	3.5	18
86	Consequences of phosphate application on glyphosate uptake by roots: Impacts for environmental management practices. Science of the Total Environment, 2015, 537, 115-119.	8.0	17
87	Deciphering the impact of land-uses on terrestrial organic matter and mercury inputs to large boreal lakes of central QuÃ©bec using lignin biomarkers. Applied Geochemistry, 2014, 41, 34-48.	3.0	16
88	The Labrador Sea during the late Quaternary: Introduction. Canadian Journal of Earth Sciences, 1994, 31, 1-4.	1.3	15
89	Can flooded organic matter from sediments predict mercury concentrations in zooplankton of a perturbed lake?. Science of the Total Environment, 2002, 293, 151-161.	8.0	15
90	Influence of functional feeding groups and spatiotemporal variables on the Î´15N signature of littoral macroinvertebrates. Hydrobiologia, 2010, 647, 51-61.	2.0	15

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91	Glyphosate Can Decrease Germination of Glyphosate-Resistant Soybeans. Journal of Agricultural and Food Chemistry, 2017, 65, 2279-2286.	5.2	15
92	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.	2.0	15
93	Impact of forested fallows on fertility and mercury content in soils of the TapajÃ³s River region, Brazilian Amazon. Science of the Total Environment, 2013, 458-460, 228-237.	8.0	14
94	Elemental, Isotopic, and Spectroscopic Assessment of Chemical Fractionation of Dissolved Organic Matter Sampled with a Portable Reverse Osmosis System. Environmental Science & Technology, 2008, 42, 2490-2495.	10.0	13
95	Phosphorus Reservoirs in the St. Lawrence Upper Estuary. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 59-65.	1.4	12
96	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, 710-723.	4.1	12
97	High yields of riparian buffer strips planted with Salix miyabena â€˜SX64â€™ along field crops in QuÃ©bec, Canada. Biomass and Bioenergy, 2017, 105, 219-229.	5.7	12
98	Mercury sources and bioavailability in lakes located in the mining district of Chibougamau, eastern Canada. Applied Geochemistry, 2011, 26, 230-241.	3.0	11
99	Environmental biomonitoring using cytogenetic endpoints in a population exposed to mercury in the Brazilian Amazon. Environmental and Molecular Mutagenesis, 2004, 44, 346-349.	2.2	10
100	Altered nature of terrestrial organic matter transferred to aquatic systems following deforestation in the Amazon. Applied Geochemistry, 2017, 87, 136-145.	3.0	10
101	Impacts of Land Uses on Mercury Retention in Long-Time Cultivated Soils, Brazilian Amazon. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	9
102	Spatial and temporal evolution of family-farming land use in the TapajÃ³s region of the Brazilian Amazon. Acta Amazonica, 2015, 45, 203-214.	0.7	9
103	Mercury Dynamics at the Flooded Soil-Water Interface in Reservoirs of Northern QuÃ©bec: in Situ Observations. , 1999, , 165-189.		9
104	The carbon cycle of Quebec boreal reservoirs investigated by elemental compositions and isotopic values. Biogeochemistry, 2012, 111, 555-568.	3.5	8
105	Assessing carbon dynamics in natural and perturbed boreal aquatic systems. Journal of Geophysical Research, 2012, 117, .	3.3	8
106	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.	0.6	8
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.	2.0	5
108	Rural development and shifts in household dietary practices from 1999 to 2010 in the TapajÃ³s River region, Brazilian Amazon: empirical evidence from dietary surveys. Globalization and Health, 2020, 16, 36.	4.9	4

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109	Dissipation and effect of glyphosate during composting of organic wastes. Journal of Environmental Quality, 2022, 51, 399-410.	2.0	4
110	An Ecosystem Approach to Describe the Mercury Issue in Canada: From Mercury Sources to Human Health. , 2005, , 451-466.		3
111	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.	2.4	3
112	Weed management strategies effect on glyphosateâ€tolerant maize and soybean yields andÂquality. , 2020, 3, e20088.		3
113	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.	3.0	3
114	Impact of weed management practices on soil biological activity in corn and soybean field crops in QuÃ©bec (Canada). Canadian Journal of Soil Science, 2021, 101, 12-21.	1.2	2
115	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.	2.2	2
116	ReprÃ©sentations sociales chrÃ©tiennes, santÃ© et environnement en Amazonie brÃ©silienne. Sustentabilidade Em Debate, 2018, 9, 111-124.	0.2	0
117	Glyphosate and aminomethylphosphonic acid contents in field crops soils under various weed management practices. , 2022, 5, .		0