

# Laurence Maurice

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8847929/publications.pdf>

Version: 2024-02-01

62  
papers

3,997  
citations

101543

36  
h-index

123424

61  
g-index

64  
all docs

64  
docs citations

64  
times ranked

4516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Episodic sediment accumulation on Amazonian flood plains influenced by El Niño/Southern Oscillation. <i>Nature</i> , 2003, 425, 493-497.	27.8	275
2	Grain size control of river suspended sediment geochemistry: Clues from Amazon River depth profiles. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	243
3	Riverine Li isotope fractionation in the Amazon River basin controlled by the weathering regimes. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 71-93.	3.9	192
4	Organic matter in Bolivian tributaries of the Amazon River: A comparison to the lower mainstream. <i>Limnology and Oceanography</i> , 2000, 45, 1449-1466.	3.1	187
5	Floodplain hydrology in an Amazon floodplain lake (Lago Grande de Curua). <i>Journal of Hydrology</i> , 2008, 349, 18-30.	5.4	157
6	Isotopic Composition of Atmospheric Mercury in China: New Evidence for Sources and Transformation Processes in Air and in Vegetation. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9262-9269.	10.0	139
7	Oxidation of petrogenic organic carbon in the Amazon floodplain as a source of atmospheric CO <sub>2</sub> . <i>Geology</i> , 2010, 38, 255-258.	4.4	130
8	Mercury distribution in waters and fishes of the upper Madeira rivers and mercury exposure in riparian Amazonian populations. <i>Science of the Total Environment</i> , 2000, 260, 73-86.	8.0	128
9	Trace metals in polyethylene debris from the North Atlantic subtropical gyre. <i>Environmental Pollution</i> , 2019, 245, 371-379.	7.5	123
10	Source, transport and fluxes of Amazon River particulate organic carbon: Insights from river sediment depth-profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 280-298.	3.9	122
11	Turbulent mixing in the Amazon River: The isotopic memory of confluences. <i>Earth and Planetary Science Letters</i> , 2010, 290, 37-43.	4.4	118
12	Anomalous Mercury Isotopic Compositions of Fish and Human Hair in the Bolivian Amazon. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8985-8990.	10.0	117
13	Temporal dynamics of water and sediment exchanges between the Curua-floodplain and the Amazon River, Brazil. <i>Journal of Hydrology</i> , 2007, 335, 140-156.	5.4	112
14	Sediment production and delivery in the Amazon River basin quantified by in situ-produced cosmogenic nuclides and recent river loads. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 934-950.	3.3	111
15	Hg Speciation and Stable Isotope Signatures in Human Hair As a Tracer for Dietary and Occupational Exposure to Mercury. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9910-9916.	10.0	101
16	Simultaneous Determination of Species-Specific Isotopic Composition of Hg by Gas Chromatography Coupled to Multicollector ICPMS. <i>Analytical Chemistry</i> , 2008, 80, 3530-3538.	6.5	99
17	Floodplains of large rivers: Weathering reactors or simple silos?. <i>Chemical Geology</i> , 2012, 332-333, 166-184.	3.3	96
18	Weathering and transport of sediments in the Bolivian Andes: Time constraints from uranium-series isotopes. <i>Earth and Planetary Science Letters</i> , 2006, 248, 759-771.	4.4	95

#	ARTICLE	IF	CITATIONS
19	Seasonal variability in concentration, composition, age, and fluxes of particulate organic carbon exchanged between the floodplain and Amazon River. <i>Global Biogeochemical Cycles</i> , 2013, 27, 119-130.	4.9	87
20	Ecotoxicity of polyethylene nanoplastics from the North Atlantic oceanic gyre on freshwater and marine organisms (microalgae and filter-feeding bivalves). <i>Environmental Science and Pollution Research</i> , 2020, 27, 3746-3755.	5.3	87
21	How important is it to integrate riverine suspended sediment chemical composition with depth? Clues from Amazon River depth-profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6955-6970.	3.9	73
22	Cadmium bioaccumulation and gastric bioaccessibility in cacao: A field study in areas impacted by oil activities in Ecuador. <i>Environmental Pollution</i> , 2017, 229, 950-963.	7.5	68
23	From source to sink: Preserving the cosmogenic <sup>10</sup> Be-derived denudation rate signal of the Bolivian Andes in sediment of the Beni and Mamoré foreland basins. <i>Earth and Planetary Science Letters</i> , 2009, 288, 463-474.	4.4	61
24	Specific Pathways of Dietary Methylmercury and Inorganic Mercury Determined by Mercury Speciation and Isotopic Composition in Zebrafish ( <i>Danio rerio</i> ). <i>Environmental Science &amp; Technology</i> , 2015, 49, 12984-12993.	10.0	60
25	Prediction of depth-integrated fluxes of suspended sediment in the Amazon River: particle aggregation as a complicating factor. <i>Hydrological Processes</i> , 2011, 25, 778-794.	2.6	58
26	Recycling of Amazon floodplain sediment quantified by cosmogenic <sup>26</sup> Al and <sup>10</sup> Be. <i>Geology</i> , 2011, 39, 467-470.	4.4	58
27	Use of Mercury Isotopes to Quantify Mercury Exposure Sources in Inland Populations, China. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5407-5416.	10.0	58
28	Drinking water quality in areas impacted by oil activities in Ecuador: Associated health risks and social perception of human exposure. <i>Science of the Total Environment</i> , 2019, 690, 1203-1217.	8.0	55
29	Floodplain ecosystem processes. <i>Geophysical Monograph Series</i> , 2009, , 525-541.	0.1	54
30	Distribution, contents and health risk assessment of metal(loid)s in small-scale farms in the Ecuadorian Amazon: An insight into impacts of oil activities. <i>Science of the Total Environment</i> , 2018, 622-623, 106-120.	8.0	54
31	Trace element geochemistry in the upper Amazon drainage basin (Bolivia). <i>Chemical Geology</i> , 1999, 157, 319-334.	3.3	50
32	Atmospheric heavy metals in tropical South America during the past 22,000 years recorded in a high altitude ice core from Sajama, Bolivia. <i>Journal of Environmental Monitoring</i> , 2004, 6, 322-326.	2.1	48
33	Quantifying the impacts of artisanal gold mining on a tropical river system using mercury isotopes. <i>Chemosphere</i> , 2019, 219, 684-694.	8.2	48
34	Specific Effects of Dietary Methylmercury and Inorganic Mercury in Zebrafish ( <i>Danio rerio</i> ) Determined by Genetic, Histological, and Metallothionein Responses. <i>Environmental Science &amp; Technology</i> , 2015, 49, 14560-14569.	10.0	47
35	Mercury Isotope Signatures of Methylmercury in Rice Samples from the Wanshan Mercury Mining Area, China: Environmental Implications. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12321-12328.	10.0	43
36	Mitigating the level of cadmium in cacao products: Reviewing the transfer of cadmium from soil to chocolate bar. <i>Science of the Total Environment</i> , 2021, 781, 146779.	8.0	43

#	ARTICLE	IF	CITATIONS
37	A test of the cosmogenic $^{10}\text{Be}$ (meteoric) / $^9\text{Be}$ proxy for simultaneously determining basin-wide erosion rates, denudation rates, and the degree of weathering in the Amazon basin. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2498-2528.	2.8	41
38	Cadmium isotope fractionation in the soil " cacao systems of Ecuador: a pilot field study. <i>RSC Advances</i> , 2019, 9, 34011-34022.	3.6	36
39	Transport, distribution and speciation of mercury in the Amazon River at the confluence of black and white waters of the Negro and Solimões Rivers. <i>Hydrological Processes</i> , 2003, 17, 1405-1417.	2.6	33
40	Mercury speciation analysis in human hair by species-specific isotope-dilution using GC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3001-3010.	3.7	31
41	Mercury Exposure in Children of the Wanshan Mercury Mining Area, Guizhou, China. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 1107.	2.6	28
42	Cl and Na Fluxes in an Andean Foreland Basin of the Peruvian Amazon: An Anthropogenic Impact Evidence. <i>Aquatic Geochemistry</i> , 2014, 20, 613-637.	1.3	27
43	Mercury distribution and exchanges between the Amazon River and connected floodplain lakes. <i>Science of the Total Environment</i> , 2009, 407, 6073-6084.	8.0	26
44	Heavy metals in ancient tropical ice: initial results. <i>Atmospheric Environment</i> , 2001, 35, 5809-5815.	4.1	25
45	Concentrations and stable isotopes of mercury in sharks of the Galapagos Marine Reserve: Human health concerns and feeding patterns. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112122.	6.0	20
46	Determination of the Microbial and Chemical Loads in Rivers from the Quito Capital Province of Ecuador (Pichincha) " A Preliminary Analysis of Microbial and Chemical Quality of the Main Rivers. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5048.	2.6	16
47	Role of the floodplain lakes in the methylmercury distribution and exchanges with the Amazon River, Brazil. <i>Journal of Environmental Sciences</i> , 2018, 68, 24-40.	6.1	14
48	Use of mercury isotopes to quantify sources of human inorganic mercury exposure and metabolic processes in the human body. <i>Environment International</i> , 2021, 147, 106336.	10.0	13
49	Determining the microbial and chemical contamination in Ecuador's main rivers. <i>Scientific Reports</i> , 2021, 11, 17640.	3.3	12
50	Compound-Specific Stable Isotope Analysis Provides New Insights for Tracking Human Methylmercury Exposure Sources. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12493-12503.	10.0	11
51	Beyond cadmium accumulation: Distribution of other trace elements in soils and cacao beans in Ecuador. <i>Environmental Research</i> , 2021, 192, 110241.	7.5	10
52	Sources of mercury in surface waters of the upper Madeira erosive basins, Bolivia. <i>European Physical Journal Special Topics</i> , 2003, 107, 855-858.	0.2	9
53	Water and chemical budgets at the catchment scale including nutrient exports from intact forests and disturbed landscapes. <i>Geophysical Monograph Series</i> , 2009, , 505-524.	0.1	9
54	Ambiente, petrleo y vulnerabilidad poltica en el Oriente Ecuatoriano: ¿hacia nuevas formas de gobernanza energtica?. <i>América Latina Hoy</i> , 0, 67, 119-137.	0.0	9

#	ARTICLE	IF	CITATIONS
55	Childhood lead exposure of Amerindian communities in French Guiana: an isotopic approach to tracing sources. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4741-4757.	3.4	7
56	Synchronizing Histories of Exposure and Demography: The Construction of an Agent-Based Model of the Ecuadorian Amazon Colonization and Exposure to Oil Pollution Hazards. <i>Jasss</i> , 2019, 22, .	1.8	7
57	Monthly variations in mercury exposure of school children and adults in an industrial area of southwestern China. <i>Environmental Research</i> , 2021, 196, 110362.	7.5	4
58	Hg concentrations and stable isotope variations in tropical fish species of a gold-mining-impacted watershed in French Guiana. <i>Environmental Science and Pollution Research</i> , 2021, 28, 60609-60621.	5.3	4
59	Turbulent mixing in the Amazon River: The isotopic memory of confluences. <i>Earth and Planetary Science Letters</i> , 290 (2010), pp. 37-43. <i>Earth and Planetary Science Letters</i> , 2011, 311, 448-450.	4.4	3
60	Determinación de elementos mayores en sedimentos provenientes de zonas afectadas por actividades petroleras en Ecuador. <i>Avances En Ciencias E Ingenierías</i> , 2015, 7, .	0.1	2
61	Changes in the occurrence of heavy metals in the tropical atmosphere during the past 22,000 years as recorded in Bolivian ice core. <i>European Physical Journal Special Topics</i> , 2003, 107, 633-636.	0.2	1
62	Quantifying sediment discharge from the Bolivian Andes into the Beni foreland basin from cosmogenic <sup>10</sup> Be-derived denudation rates. <i>Revista Brasileira De Geociências</i> , 2011, 41, 629-641.	0.1	1