

# Yves Gelinas

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

4,788  
citations

117625

34  
h-index

95266

68  
g-index

83  
all docs

83  
docs citations

83  
times ranked

5741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preservation of organic matter in sediments promoted by iron. <i>Nature</i> , 2012, 483, 198-200.	27.8	876
2	Cycling and composition of organic matter in terrestrial and marine ecosystems. <i>Marine Chemistry</i> , 2004, 92, 39-64.	2.3	328
3	Evidence for non-selective preservation of organic matter in sinking marine particles. <i>Nature</i> , 2001, 409, 801-804.	27.8	321
4	The biochemical and elemental compositions of marine plankton: A NMR perspective. <i>Marine Chemistry</i> , 2002, 78, 47-63.	2.3	291
5	Comparative analysis of black carbon in soils. <i>Global Biogeochemical Cycles</i> , 2001, 15, 163-167.	4.9	267
6	Reburial of fossil organic carbon in marine sediments. <i>Nature</i> , 2004, 427, 336-339.	27.8	231
7	An Improved Thermal Oxidation Method for the Quantification of Soot/Graphitic Black Carbon in Sediments and Soils. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3519-3525.	10.0	225
8	Demineralization of marine and freshwater sediments for CP/MAS <sup>13</sup> C NMR analysis. <i>Organic Geochemistry</i> , 2001, 32, 677-693.	1.8	117
9	Preservation of organic matter in marine sediments by inner-sphere interactions with reactive iron. <i>Scientific Reports</i> , 2017, 7, 366.	3.3	95
10	Solid-state <sup>13</sup> C NMR analysis of size and density fractions of marine sediments: Insight into organic carbon sources and preservation mechanisms. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 666-686.	3.9	83
11	Enhanced terrestrial carbon preservation promoted by reactive iron in deltaic sediments. <i>Geophysical Research Letters</i> , 2016, 43, 1149-1157.	4.0	82
12	Chemical composition of the graphitic black carbon fraction in riverine and marine sediments at sub-micron scales using carbon X-ray spectromicroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1483-1494.	3.9	77
13	Methane Baseline Concentrations and Sources in Shallow Aquifers from the Shale Gas-Prone Region of the St. Lawrence Lowlands (Quebec, Canada). <i>Environmental Science &amp; Technology</i> , 2015, 49, 4765-4771.	10.0	76
14	Microbial-mineral floc associated with nascent hydrothermal activity on CoAxial Segment, Juan de Fuca Ridge. <i>Geophysical Research Letters</i> , 1995, 22, 179-182.	4.0	73
15	Are spatial variations in the diets of hydrothermal fauna linked to local environmental conditions?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 1649-1664.	1.4	73
16	Carbon K-edge XANES spectromicroscopy of natural graphite. <i>Carbon</i> , 2008, 46, 1424-1434.	10.3	72
17	Organic Carbon Composition of Marine Sediments: Effect of Oxygen Exposure on Oil Generation Potential. <i>Science</i> , 2001, 294, 145-148.	12.6	70
18	Determination of Total Iodine in Nutritional and Biological Samples by ICP-MS Following Their Combustion within an Oxygen Stream. <i>Analytical Chemistry</i> , 1998, 70, 1021-1025.	6.5	64

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19	Larval nutrition affects life history traits in a capital breeding moth. <i>Journal of Experimental Biology</i> , 2009, 212, 1794-1800.	1.7	62
20	Direct Determination of Major and Trace Elements in Milk by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1243-1246.	3.0	61
21	Regulation of leptin secretion from white adipocytes by free fatty acids. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 285, E521-E526.	3.5	58
22	Sources and distribution of CuO-derived benzene carboxylic acids in soils and sediments. <i>Organic Geochemistry</i> , 2007, 38, 1256-1276.	1.8	52
23	Food-Web Complexity in Guaymas Basin Hydrothermal Vents and Cold Seeps. <i>PLoS ONE</i> , 2016, 11, e0162263.	2.5	48
24	Physical separation of combustion and rock sources of graphitic black carbon in sediments. <i>Marine Chemistry</i> , 2004, 92, 215-223.	2.3	46
25	Aerobic respiration and hypoxia in the Lower St. Lawrence Estuary: Stable isotope ratios of dissolved oxygen constrain oxygen sink partitioning. <i>Limnology and Oceanography</i> , 2009, 54, 2157-2169.	3.1	46
26	History of the atmospheric deposition of major and trace elements in the industrialized St. Lawrence Valley, Quebec, Canada. <i>Atmospheric Environment</i> , 2000, 34, 1797-1810.	4.1	40
27	Hydrocarbons in Lake Washington Sediments. A 25-Year Retrospective in an Urban Lake. <i>Environmental Science &amp; Technology</i> , 2004, 38, 431-439.	10.0	40
28	Coupling a High-Temperature Catalytic Oxidation Total Organic Carbon Analyzer to an Isotope Ratio Mass Spectrometer To Measure Natural-Abundance $\delta^{13}\text{C}$ -Dissolved Organic Carbon in Marine and Freshwater Samples. <i>Analytical Chemistry</i> , 2008, 80, 5232-5239.	6.5	39
29	Organic matter reactivity indicators in sediments of the St. Lawrence Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 102-103, 36-47.	2.1	39
30	Well water survey in two districts of Conakry (Republic of Guinea), and comparison with the piped city water. <i>Water Research</i> , 1996, 30, 2017-2026.	11.3	38
31	Extending the Use of the Stable Lead Isotope Ratios as a Tracer in Bioavailability Studies. <i>Environmental Science &amp; Technology</i> , 1997, 31, 1968-1972.	10.0	38
32	Different pools of black carbon in sediments from the Gulf of Cádiz (SW Spain): Method comparison and spatial distribution. <i>Marine Chemistry</i> , 2013, 151, 13-22.	2.3	38
33	Total iodine in nutritional and biological reference materials using neutron activation analysis and inductively coupled plasma mass spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 362, 483-488.	1.5	36
34	The role of iron in the diagenesis of organic carbon and nitrogen in sediments: A long-term incubation experiment. <i>Marine Chemistry</i> , 2014, 162, 1-9.	2.3	36
35	Determination of Elements in Biological and Botanical Materials by Inductively Coupled Plasma Atomic Emission and Mass Spectrometry After Extraction With a Tertiary Amine Reagent. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1239-1242.	3.0	35
36	Multi-element analysis of biological tissues by inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 1991, 249, 495-501.	5.4	34

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37	Benthic nutrient fluxes along the Laurentian Channel: Impacts on the N budget of the St. Lawrence marine system. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 90, 195-205.	2.1	34
38	Automation of $^{13}\text{C}/^{12}\text{C}$ ratio measurement for freshwater and seawater DOC using high temperature combustion. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 816-829.	2.0	34
39	Interactions between iron and organic carbon in a sandy beach subterranean estuary. <i>Marine Chemistry</i> , 2018, 202, 86-96.	2.3	33
40	Differences in Riverine and Pond Water Dissolved Organic Matter Composition and Sources in Canadian High Arctic Watersheds Affected by Active Layer Detachments. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1062-1071.	10.0	31
41	Revisiting the disappearance of terrestrial dissolved organic matter in the ocean: a $^{13}\text{C}$ study. <i>Biogeosciences</i> , 2014, 11, 3707-3719.	3.3	30
42	$^{222}\text{Rn}$ activity in groundwater of the St. Lawrence Lowlands, Quebec, eastern Canada: relation with local geology and health hazard. <i>Journal of Environmental Radioactivity</i> , 2014, 136, 206-217.	1.7	30
43	Photochemical Mineralization of Terrigenous DOC to Dissolved Inorganic Carbon in Ocean. <i>Global Biogeochemical Cycles</i> , 2018, 32, 250-266.	4.9	30
44	Food-web complexity across hydrothermal vents on the Azores triple junction. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2018, 131, 101-120.	1.4	30
45	Metaproteomics of aquatic microbial communities in a deep and stratified estuary. <i>Proteomics</i> , 2015, 15, 3566-3579.	2.2	26
46	Persistence of <i>Escherichia coli</i> in batch and continuous vermicomposting systems. <i>Waste Management</i> , 2016, 56, 88-99.	7.4	23
47	Ontogenetic shifts in the trophic ecology of two alvinocaridid shrimp species at hydrothermal vents on the Mariana Arc, western Pacific Ocean. <i>Marine Ecology - Progress Series</i> , 2008, 356, 225-237.	1.9	23
48	Benthic fluxes of dissolved organic nitrogen in the lower St. Lawrence estuary and implications for selective organic matter degradation. <i>Biogeosciences</i> , 2013, 10, 7609-7622.	3.3	21
49	Multi-element analysis of biological tissues by inductively coupled plasma mass spectrometry: healthy sprague dawley rats. <i>Analytica Chimica Acta</i> , 1992, 269, 115-122.	5.4	19
50	Dinosterols or dinocysts to estimate dinoflagellate contributions to marine sedimentary organic matter?. <i>Limnology and Oceanography</i> , 2007, 52, 2569-2581.	3.1	18
51	Estimation of the bulk atmospheric deposition of major and trace elements to a rural watershed. <i>Atmospheric Environment</i> , 1998, 32, 1473-1483.	4.1	16
52	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. <i>Science Advances</i> , 2022, 8, .	10.3	16
53	Multi-proxy study of primary production and paleoceanographical conditions in northern Baffin Bay during the last centuries. <i>Marine Micropaleontology</i> , 2016, 127, 1-10.	1.2	15
54	Stable isotope analysis of dissolved organic carbon in Canada's eastern coastal waters. <i>Limnology and Oceanography</i> , 2017, 62, S71.	3.1	15

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55	Multielemental analysis of human fetal tissues using inductively coupled plasma-mass spectrometry. <i>Biological Trace Element Research</i> , 1997, 59, 63-74.	3.5	14
56	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> , 2008, 42, 2490-2495.	10.0	13
57	Acid Leaching of Metals from Environmental Particles: Expressing Results as a Concentration within the Leachable Fraction. <i>Environmental Science &amp; Technology</i> , 1998, 32, 3622-3627.	10.0	12
58	Complete analysis of the trace elements of the kidney. <i>Biochemistry and Cell Biology</i> , 1990, 68, 1272-1280.	2.0	11
59	A method for the simultaneous quantification of 23 C1-C9 trace aldehydes and ketones in seawater. <i>Environmental Chemistry</i> , 2011, 8, 441.	1.5	11
60	Anthropogenic and natural methane emissions from a shale gas exploration area of Quebec, Canada. <i>Science of the Total Environment</i> , 2016, 566-567, 1329-1338.	8.0	11
61	Molecular evidence for human population change associated with climate events in the Maya lowlands. <i>Quaternary Science Reviews</i> , 2021, 258, 106904.	3.0	10
62	Assessing carbon dynamics in natural and perturbed boreal aquatic systems. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
63	Dynamics of Physicochemical Variables and Cultivable Bacteria in Vermicompost During Steady Food Waste Addition and Upon Feed Interruption. <i>Compost Science and Utilization</i> , 2016, 24, 117-135.	1.2	8
64	Pre- and post-industrial levels of polycyclic aromatic hydrocarbons in sediments from the Estuary and Gulf of St. Lawrence (eastern Canada). <i>Marine Pollution Bulletin</i> , 2022, 174, 113219.	5.0	8
65	European corn borer injury effects on lignin, carbon and nitrogen in corn tissues. <i>Plant and Soil</i> , 2011, 341, 165-177.	3.7	7
66	Molecular and stable isotope analysis ( $\delta^{13}C$ , $\delta^2H$ ) of sedimentary n-alkanes in the St. Lawrence Estuary and Gulf, Quebec, Canada: Importance of even numbered n-alkanes in coastal systems. <i>Organic Geochemistry</i> , 2022, 164, 104367.	1.8	6
67	Understanding controls on stanols in lake sediments as proxies for palaeopopulations in Mesoamerica. <i>Journal of Paleolimnology</i> , 2022, 67, 375-390.	1.6	6
68	Mineralization of organic matter in boreal lake sediments: rates, pathways, and nature of the fermenting substrates. <i>Biogeosciences</i> , 2020, 17, 4571-4589.	3.3	4
69	Expressing biomarker data in stoichiometric terms: shifts in distribution and biogeochemical interpretation. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 269-276.	2.0	3
70	Accelerated solvent extraction: An efficient tool to remove extractives from tree-rings. <i>Dendrochronologia</i> , 2015, 36, 45-48.	2.2	1