

Charles Gobeil

List of Publications by Year in descending order

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53
papers

4,359
citations

101543

36
h-index

168389

53
g-index

53
all docs

53
docs citations

53
times ranked

4171
citing authors

#	ARTICLE	IF	CITATIONS
1	Contaminants in the Canadian Arctic: 5 years of progress in understanding sources, occurrence and pathways. <i>Science of the Total Environment</i> , 2000, 254, 93-234.	8.0	600
2	The phosphorus cycle in coastal marine sediments. <i>Limnology and Oceanography</i> , 1992, 37, 1129-1145.	3.1	441
3	A sediment and organic carbon budget for the Canadian Beaufort Shelf. <i>Marine Geology</i> , 1998, 144, 255-273.	2.1	263
4	A seventy-two-year record of diminishing deep-water oxygen in the St. Lawrence estuary: The northwest Atlantic connection. <i>Limnology and Oceanography</i> , 2005, 50, 1654-1666.	3.1	212
5	Burial efficiency of phosphorus and the geochemistry of iron in continental margin sediments. <i>Limnology and Oceanography</i> , 1998, 43, 53-64.	3.1	196
6	Mercury in Sediments and Sediment Pore Water in the Laurentian Trough. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993, 50, 1794-1800.	1.4	152
7	Cadmium diagenesis in Laurentian Trough sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 589-596.	3.9	143
8	Comparative geochemistry of cadmium, rhenium, uranium, and molybdenum in continental margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 2485-2493.	3.9	134
9	Diagenetic separation of cadmium and manganese in suboxic continental margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4647-4654.	3.9	124
10	Mercury Profiles in Sediments of the Arctic Ocean Basins. <i>Environmental Science & Technology</i> , 1999, 33, 4194-4198.	10.0	119
11	Arsenic, iron and sulfur co-diagenesis in lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1238-1255.	3.9	111
12	Century-Long Source Apportionment of PAHs in Athabasca Oil Sands Region Lakes Using Diagnostic Ratios and Compound-Specific Carbon Isotope Signatures. <i>Environmental Science & Technology</i> , 2013, 47, 6155-6163.	10.0	98
13	Distribution and sources of organic matter in surface marine sediments across the North American Arctic margin. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4017-4035.	2.6	90
14	Mercury speciation in the Lower St. Lawrence Estuary. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 138-147.	1.4	88
15	Sources and chronology of atmospheric lead deposition to a Canadian Shield lake: Inferences from Pb isotopes and PAH profiles. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3199-3210.	3.9	84
16	Geochemical and anthropogenic enrichments of Mo in sediments from perennially oxic and seasonally anoxic lakes in Eastern Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 170-184.	3.9	84
17	Sources and Burden of Lead in St. Lawrence Estuary Sediments: Isotopic Evidence. <i>Environmental Science & Technology</i> , 1995, 29, 193-201.	10.0	79
18	In situ adsorption of mercury, methylmercury and other elements by iron oxyhydroxides and organic matter in lake sediments. <i>Applied Geochemistry</i> , 2010, 25, 984-995.	3.0	75

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19	Modeling diagenesis of lead in sediments of a Canadian Shield lake. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3531-3545.	3.9	74
20	Contribution of Municipal Effluents to Metal Fluxes in the St. Lawrence River. <i>Environmental Science & Technology</i> , 2005, 39, 456-464.	10.0	73
21	Thallium diagenesis in lacustrine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5295-5306.	3.9	71
22	Manganese Sources and Sinks in the Arctic Ocean with Reference to Periodic Enrichments in Basin Sediments. <i>Aquatic Geochemistry</i> , 2012, 18, 565-591.	1.3	70
23	Root-Induced Cycling of Lead in Salt Marsh Sediments. <i>Environmental Science & Technology</i> , 2005, 39, 2080-2086.	10.0	63
24	Factors influencing particulate matter geochemistry in the St. Lawrence estuary turbidity maximum. <i>Marine Chemistry</i> , 1981, 10, 123-140.	2.3	55
25	Controls on uranium distribution in lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 203-214.	3.9	51
26	Historical Perspective of Industrial Lead Emissions to the Atmosphere from a Canadian Smelter. <i>Environmental Science & Technology</i> , 2006, 40, 741-747.	10.0	50
27	Mercury dynamics in lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 82, 92-112.	3.9	48
28	Isotopic Evidence for Oil Sands Petroleum Coke in the Peace-Athabasca Delta. <i>Environmental Science & Technology</i> , 2015, 49, 12062-12070.	10.0	47
29	Non-Steady State Modeling of Arsenic Diagenesis in Lake Sediments. <i>Environmental Science & Technology</i> , 2010, 44, 197-203.	10.0	45
30	Non-steady state diagenesis of organic and inorganic sulfur in lake sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 194, 15-33.	3.9	45
31	Dissolved mercury behaviour in the Saint Lawrence estuary. <i>Estuarine, Coastal and Shelf Science</i> , 1988, 26, 227-230.	2.1	44
32	Chronology of Atmospheric Deposition of Arsenic Inferred from Reconstructed Sedimentary Records. <i>Environmental Science & Technology</i> , 2008, 42, 6508-6513.	10.0	41
33	Towards a sediment and organic carbon budget for Hudson Bay. <i>Marine Geology</i> , 2009, 264, 190-208.	2.1	39
34	²¹⁰ Pb and ¹³⁷ Cs in margin sediments of the Arctic Ocean: Controls on boundary scavenging. <i>Global Biogeochemical Cycles</i> , 2013, 27, 422-439.	4.9	39
35	Source Apportionment of Background PAHs in the Peace-Athabasca Delta (Alberta, Canada) Using Molecular Level Radiocarbon Analysis. <i>Environmental Science & Technology</i> , 2015, 49, 9056-9063.	10.0	38
36	Early diagenesis of lead in Laurentian Trough sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 1889-1895.	3.9	37

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37	A Michaelis-Menten type equation for describing methylmercury dependence on inorganic mercury in aquatic sediments. <i>Biogeochemistry</i> , 2014, 119, 35-43.	3.5	34
38	Sequestration mechanisms and anthropogenic inputs of rhenium in sediments from Eastern Canada lakes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 6027-6036.	3.9	33
39	Dissolved Aluminum in the Upper St. Lawrence Estuary. <i>Journal of Oceanography</i> , 2000, 56, 517-525.	1.7	30
40	Upper Mississippi Pb as a mid-1800s chronostratigraphic marker in sediments from seasonally anoxic lakes in Eastern Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 113, 125-135.	3.9	29
41	Accumulation of silver from the diet in two marine benthic predators: The snow crab (<i>Chionoecetes opilio</i>) and American plaice (<i>Hippoglossoides platessoides</i>). <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 631-637.	4.3	28
42	Dissolved arsenic in the St Lawrence Estuary and the Saguenay Fjord, Canada. <i>Marine Pollution Bulletin</i> , 1990, 21, 465-469.	5.0	26
43	Pharmacokinetics and Distribution of Dietary Tributyltin and Methylmercury in the Snow Crab (<i>Chionoecetes opilio</i>). <i>Environmental Science & Technology</i> , 1999, 33, 3451-3457.	10.0	20
44	Silver in Sediments from the St. Lawrence River and Estuary and the Saguenay Fjord. <i>Environmental Science & Technology</i> , 1999, 33, 2953-2957.	10.0	20
45	Early diagenesis and trace element accumulation in North American Arctic margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 175-200.	3.9	20
46	Mercury and stable isotope cycles in baleen plates are consistent with year-round feeding in two bowhead whale (<i>Balaena mysticetus</i>) populations. <i>Polar Biology</i> , 2018, 41, 1881-1893.	1.2	20
47	Evaporative emissions from tailings ponds are not likely an important source of airborne PAHs in the Athabasca oil sands region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2439.	7.1	17
48	Inferences about the modern organic carbon cycle from diagenesis of redox-sensitive elements in Hudson Bay. <i>Journal of Marine Systems</i> , 2011, 88, 451-462.	2.1	15
49	Seasonal and Decadal Variations in Lead Sources to Eastern North Atlantic Mussels. <i>Environmental Science & Technology</i> , 2010, 44, 1211-1216.	10.0	14
50	Rates and pathways of sedimentary organic matter mineralization in two basins of a boreal lake: Emphasis on methanogenesis and methanotrophy. <i>Limnology and Oceanography</i> , 2016, 61, S131.	3.1	13
51	Reaction rates, depositional history and sources of indium in sediments from Appalachian and Canadian Shield lakes. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 137, 48-63.	3.9	12
52	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
53	Suitability of fish scales as archives of temporal variations in ambient mercury levels in estuaries. <i>Estuaries and Coasts</i> , 2006, 29, 855-859.	2.2	1