

Robie W Macdonald

List of Publications by Year in descending order

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252
papers

21,210
citations

11651

70
h-index

11607

135
g-index

271
all docs

271
docs citations

271
times ranked

15388
citing authors

#	ARTICLE	IF	CITATIONS
1	PAHs in the Fraser River basin: a critical appraisal of PAH ratios as indicators of PAH source and composition. <i>Organic Geochemistry</i> , 2002, 33, 489-515.	1.8	3,412
2	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009, 79, 523-555.	5.4	814
3	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
4	Recent climate change in the Arctic and its impact on contaminant pathways and interpretation of temporal trend data. <i>Science of the Total Environment</i> , 2005, 342, 5-86.	8.0	591
5	Sources and pathways of selected organochlorine pesticides to the Arctic and the effect of pathway divergence on HCH trends in biota: a review. <i>Science of the Total Environment</i> , 2005, 342, 87-106.	8.0	376
6	Interactions between climate change and contaminants. <i>Marine Pollution Bulletin</i> , 2007, 54, 1845-1856.	5.0	336
7	A sediment and organic carbon budget for the Canadian Beaufort Shelf. <i>Marine Geology</i> , 1998, 144, 255-273.	2.1	263
8	Distribution and sources of organic biomarkers in arctic sediments from the Mackenzie River and Beaufort Shelf. <i>Marine Chemistry</i> , 2000, 71, 23-51.	2.3	256
9	The supply and preservation of ancient and modern components of organic carbon in the Canadian Beaufort Shelf of the Arctic Ocean. <i>Marine Chemistry</i> , 2005, 93, 53-73.	2.3	253
10	Source and transport of terrigenous organic matter in the upper Yukon River: Evidence from isotope ($\delta^{13}C$, $\delta^{14}C$, and $\delta^{15}N$) composition of dissolved, colloidal, and particulate phases. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	244
11	Phytoplankton productivity on the Canadian Shelf of the Beaufort Sea. <i>Marine Ecology - Progress Series</i> , 2004, 277, 37-50.	1.9	243
12	Terrestrial and marine biomarkers in a seasonally ice-covered Arctic estuary – integration of multivariate and biomarker approaches. <i>Marine Chemistry</i> , 1995, 49, 1-50.	2.3	237
13	Polycyclic Aromatic Hydrocarbon Composition and Potential Sources for Sediment Samples from the Beaufort and Barents Seas. <i>Environmental Science & Technology</i> , 1996, 30, 1310-1320.	10.0	231
14	Physical and geochemical properties across the Atlantic/Pacific water mass front in the southern Canadian Basin. <i>Journal of Geophysical Research</i> , 1996, 101, 1183-1197.	3.3	229
15	Mobilization pathways of organic carbon from permafrost to arctic rivers in a changing climate. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	222
16	Climate variability and physical forcing of the food webs and the carbon budget on panarctic shelves. <i>Progress in Oceanography</i> , 2006, 71, 145-181.	3.2	220
17	Oceanography of the Canadian Shelf of the Beaufort Sea: A Setting for Marine Life. <i>Arctic</i> , 2002, 55, .	0.4	217
18	Biologically Mediated Transport of Contaminants to Aquatic Systems. <i>Environmental Science & Technology</i> , 2007, 41, 1075-1084.	10.0	214

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19	Evidence for warming of Atlantic water in the Southern Canadian Basin of the Arctic Ocean: Results from the Larsen-93 Expedition. <i>Geophysical Research Letters</i> , 1995, 22, 1061-1064.	4.0	209
20	The Arctic Ocean Estuary. <i>Estuaries and Coasts</i> , 2012, 35, 353-368.	2.2	202
21	Waters of the Makarov and Canada basins. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1503-1529.	1.4	199
22	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	5.2	199
23	How does climate change influence arctic mercury?. <i>Science of the Total Environment</i> , 2012, 414, 22-42.	8.0	198
24	The freshwater budget and under-ice spreading of Mackenzie River water in the Canadian Beaufort Sea based on salinity and $\delta^{18}O/\delta^{16}O$ measurements in water and ice. <i>Journal of Geophysical Research</i> , 1995, 100, 895.	3.3	195
25	Sources and Significance of Alkane and PAH Hydrocarbons in Canadian Arctic Rivers. <i>Estuarine, Coastal and Shelf Science</i> , 2002, 55, 1-31.	2.1	190
26	Constraints on the origin of sedimentary organic carbon in the Beaufort Sea from coupled molecular $\delta^{13}C$ and $\delta^{14}C$ measurements. <i>Marine Chemistry</i> , 2007, 103, 146-162.	2.3	186
27	Changes in temperature and tracer distributions within the Arctic Ocean: results from the 1994 Arctic Ocean section. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1487-1502.	1.4	177
28	Persistence of Nonylphenol Ethoxylate Surfactants and Their Primary Degradation Products in Sediments from near a Municipal Outfall in the Strait of Georgia, British Columbia, Canada. <i>Environmental Science & Technology</i> , 1999, 33, 1366-1372.	10.0	176
29	Organic carbon isotope ratios ($\delta^{13}C$) of Arctic Amerasian Continental shelf sediments. <i>International Journal of Earth Sciences</i> , 2000, 89, 522-532.	1.8	176
30	Alkane and PAH depositional history, sources and fluxes in sediments from the Fraser River Basin and Strait of Georgia, Canada. <i>Organic Geochemistry</i> , 2003, 34, 1429-1454.	1.8	176
31	Particle fluxes and geochemistry on the Canadian Beaufort Shelf: Implications for sediment transport and deposition. <i>Continental Shelf Research</i> , 2006, 26, 41-81.	1.8	169
32	Alkane, terpene and polycyclic aromatic hydrocarbon geochemistry of the Mackenzie River and Mackenzie shelf: Riverine contributions to Beaufort Sea coastal sediment. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 3041-3061.	3.9	165
33	Natural and anthropogenic inputs of hydrocarbons to the Strait of Georgia. <i>Science of the Total Environment</i> , 1999, 225, 181-209.	8.0	164
34	Large and growing environmental reservoirs of Deca-BDE present an emerging health risk for fish and marine mammals. <i>Marine Pollution Bulletin</i> , 2009, 58, 7-10.	5.0	157
35	A mass balance inventory of mercury in the Arctic Ocean. <i>Environmental Chemistry</i> , 2008, 5, 89.	1.5	154
36	The joint roles of Pacific and Atlantic-origin waters in the Canada Basin, 1997-1998. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 107-128.	1.4	143

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37	The transport of $\hat{1}^2$ -hexachlorocyclohexane to the western Arctic Ocean: a contrast to $\hat{1}^2$ -HCH. <i>Science of the Total Environment</i> , 2002, 291, 229-246.	8.0	138
38	Composition and Origins of Polycyclic Aromatic Hydrocarbons in the Mackenzie River and on the Beaufort Sea Shelf. <i>Arctic</i> , 1995, 48, .	0.4	132
39	Carbon dynamics in sea ice: A winter flux time series. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	129
40	The role of the global cryosphere in the fate of organic contaminants. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3271-3305.	4.9	128
41	Increasing Contaminant Burdens in an Arctic Fish, Burbot (<i>Lota lota</i>), in a Warming Climate. <i>Environmental Science & Technology</i> , 2010, 44, 316-322.	10.0	127
42	Fresh water and its sources during the SHEBA drift in the Canada Basin of the Arctic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 1769-1785.	1.4	126
43	Diagenetic separation of cadmium and manganese in suboxic continental margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4647-4654.	3.9	124
44	Mercury in the Arctic atmosphere: An analysis of eight years of measurements of GEM at Alert (Canada) and a comparison with observations at Amderma (Russia) and Kuujuarapik (Canada). <i>Science of the Total Environment</i> , 2005, 342, 185-198.	8.0	123
45	Delivery of pollutants by spawning salmon. <i>Nature</i> , 2003, 425, 255-256.	27.8	122
46	Persistent Organic Pollutants in British Columbia Grizzly Bears: A Consequence of Divergent Diets. <i>Environmental Science & Technology</i> , 2005, 39, 6952-6960.	10.0	121
47	Quantitative determination of nonylphenol polyethoxylate surfactants in marine sediment using normal-phase liquid chromatography-electrospray mass spectrometry. <i>Journal of Chromatography A</i> , 1999, 849, 467-482.	3.7	119
48	Mercury Profiles in Sediments of the Arctic Ocean Basins. <i>Environmental Science & Technology</i> , 1999, 33, 4194-4198.	10.0	119
49	The influence of global climate change on the environmental fate of persistent organic pollutants: A review with emphasis on the Northern Hemisphere and the Arctic as a receptor. <i>Global and Planetary Change</i> , 2016, 146, 89-108.	3.5	118
50	The delivery of mercury to the Beaufort Sea of the Arctic Ocean by the Mackenzie River. <i>Science of the Total Environment</i> , 2007, 373, 178-195.	8.0	117
51	Distribution, characteristics and potential impacts of chromophoric dissolved organic matter (CDOM) in Hudson Strait and Hudson Bay, Canada. <i>Continental Shelf Research</i> , 2007, 27, 2032-2050.	1.8	113
52	Alkane and PAH biomarkers as tracers of terrigenous organic carbon in Arctic Ocean sediments. <i>Organic Geochemistry</i> , 2011, 42, 1109-1109.	1.8	113
53	The distribution of nutrients in the southeastern Beaufort Sea: Implications for water circulation and primary production. <i>Journal of Geophysical Research</i> , 1987, 92, 2939-2952.	3.3	108
54	The fate of mercury in Arctic terrestrial and aquatic ecosystems, a review. <i>Environmental Chemistry</i> , 2012, 9, 321.	1.5	106

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55	Mercury in the marine environment of the Canadian Arctic: Review of recent findings. <i>Science of the Total Environment</i> , 2015, 509-510, 67-90.	8.0	106
56	Tracing the inputs and fate of marine and terrigenous organic matter in Arctic Ocean sediments: A multivariate analysis of lipid biomarkers. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 3478-3508.	1.4	105
57	The distribution and trends of persistent organic pollutants and mercury in marine mammals from Canada's Eastern Arctic. <i>Science of the Total Environment</i> , 2018, 618, 500-517.	8.0	105
58	How Will Global Climate Change Affect Risks from Long-Range Transport of Persistent Organic Pollutants?. <i>Human and Ecological Risk Assessment (HERA)</i> , 2003, 9, 643-660.	3.4	104
59	Exploring continental margin carbon fluxes on a global scale. <i>Eos</i> , 2000, 81, 641-644.	0.1	103
60	Seabird-driven shifts in Arctic pond ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 591-596.	2.6	102
61	Killer Whales (<i>Orcinus orca</i>) Face Protracted Health Risks Associated with Lifetime Exposure to PCBs. <i>Environmental Science & Technology</i> , 2007, 41, 6613-6619.	10.0	101
62	Tests of the fidelity of lake sediment core records of mercury deposition to known histories of mercury contamination. <i>Science of the Total Environment</i> , 2000, 260, 171-180.	8.0	91
63	Sources and export fluxes of inorganic and organic carbon and nutrient species from the seasonally ice-covered Yukon River. <i>Biogeochemistry</i> , 2012, 107, 187-206.	3.5	91
64	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
65	Organic-walled dinoflagellate cyst production, composition and flux from 1996 to 1998 in the central Strait of Georgia (BC, Canada): A sediment trap study. <i>Marine Micropaleontology</i> , 2010, 75, 17-37.	1.2	88
66	A sediment and organic carbon budget for the greater Strait of Georgia. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 845-860.	2.1	85
67	Joint effects of wind and ice motion in forcing upwelling in Mackenzie Trough, Beaufort Sea. <i>Continental Shelf Research</i> , 2006, 26, 2352-2366.	1.8	85
68	Geoengineering with seagrasses: is credit due where credit is given?. <i>Environmental Research Letters</i> , 2016, 11, 113001.	5.2	84
69	Sources and Burden of Lead in St. Lawrence Estuary Sediments: Isotopic Evidence. <i>Environmental Science & Technology</i> , 1995, 29, 193-201.	10.0	79
70	Carbon dynamics in the western Arctic Ocean: insights from full-depth carbon isotope profiles of DIC, DOC, and POC. <i>Biogeosciences</i> , 2012, 9, 1217-1224.	3.3	78
71	Alkane and PAH provenance and potential bioavailability in coastal marine sediments subject to a gradient of anthropogenic sources in British Columbia, Canada. <i>Organic Geochemistry</i> , 2015, 89-90, 80-116.	1.8	75
72	Sources and transport of organic carbon to shelf, slope, and basin surface sediments of the Arctic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 1463-1483.	1.4	73

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73	Seasonal variability of water mass distribution in the southeastern Beaufort Sea determined by total alkalinity and $\delta^{18}O$. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	73
74	The role of depositional regime on carbon transport and preservation in Arctic Ocean sediments. <i>Marine Chemistry</i> , 2004, 86, 65-88.	2.3	72
75	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
76	Mercury Biomagnification in Marine Zooplankton Food Webs in Hudson Bay. <i>Environmental Science & Technology</i> , 2012, 46, 12952-12959.	10.0	68
77	Atlantic Water Flow Pathways Revealed by Lead Contamination in Arctic Basin Sediments. <i>Science</i> , 2001, 293, 1301-1304.	12.6	67
78	High arctic ponds receiving biotransported nutrients from a nearby seabird colony are also subject to potentially toxic loadings of arsenic, cadmium, and zinc. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 2426-2433.	4.3	67
79	Historical Inputs of PCDDs, PCDFs, and PCBs to a British Columbia Interior Lake: The Effect of Environmental Controls on Pulp Mill Emissions. <i>Environmental Science & Technology</i> , 1998, 32, 331-337.	10.0	66
80	The role of large-scale underice topography in separating estuary and ocean on an arctic shelf. <i>Atmosphere - Ocean</i> , 1991, 29, 37-53.	1.6	64
81	Sources, pathways and sinks of particulate organic matter in Hudson Bay: Evidence from lignin distributions. <i>Marine Chemistry</i> , 2008, 112, 215-229.	2.3	64
82	Primary productivity and export fluxes on the Canadian shelf of the Beaufort Sea: A modelling study. <i>Journal of Marine Systems</i> , 2009, 75, 17-32.	2.1	64
83	Total and Methylated Mercury in the Beaufort Sea: The Role of Local and Recent Organic Remineralization. <i>Environmental Science & Technology</i> , 2012, 46, 11821-11828.	10.0	64
84	Surface sediment dinoflagellate cysts from the Hudson Bay system and their relation to freshwater and nutrient cycling. <i>Marine Micropaleontology</i> , 2014, 106, 79-109.	1.2	63
85	Trifluoroacetate Profiles in the Arctic, Atlantic, and Pacific Oceans. <i>Environmental Science & Technology</i> , 2005, 39, 6555-6560.	10.0	62
86	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 231-236.	6.3	61
87	Geochemistry and fluxes of hydrocarbons to the Beaufort Sea shelf: A multivariate comparison of fluvial inputs and coastal erosion of peat using principal components analysis. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 255-273.	3.9	60
88	Decabrominated Diphenyl Ethers (BDE-209) in Chinese and Global Air: Levels, Gas/Particle Partitioning, and Long-Range Transport: Is Long-Range Transport of BDE-209 Really Governed by the Movement of Particles?. <i>Environmental Science & Technology</i> , 2017, 51, 1035-1042.	10.0	60
89	Accumulation of heavy metals (Pb, Zn, Cu, Cd), carbon and nitrogen in sediments from Strait of Georgia, B.C., Canada. <i>Marine Chemistry</i> , 1991, 34, 109-135.	2.3	57
90	Shelf-basin interactions in the Arctic Ocean based on ^{210}Pb and Ra isotope tracer distributions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 397-416.	1.4	56

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91	Joined by geochemistry, divided by history: PCBs and PBDEs in Strait of Georgia sediments. <i>Marine Environmental Research</i> , 2008, 66, S112-S120.	2.5	56
92	A history of octachlorodibenzo-p-dioxin, 2,3,7,8-tetrachlorodibenzofuran, and 3,3',4,4'-tetrachlorobiphenyl contamination in Howe Sound, British Columbia. <i>Environmental Science & Technology</i> , 1992, 26, 1544-1550.	10.0	55
93	Historical $\hat{\pm}$ -HCH budget in the Arctic Ocean: the Arctic Mass Balance Box Model (AMBBM). <i>Science of the Total Environment</i> , 2004, 324, 115-139.	8.0	53
94	Spatiotemporal patterns of mercury accumulation in lake sediments of western North America. <i>Science of the Total Environment</i> , 2016, 568, 1157-1170.	8.0	53
95	Seasonal and spatial variations in the source and transport of sinking particles in the Strait of Georgia, British Columbia, Canada. <i>Marine Geology</i> , 2005, 216, 59-77.	2.1	52
96	Effects of local and global change on an inland sea: the Strait of Georgia, British Columbia, Canada. <i>Climate Research</i> , 2009, 40, 1-21.	1.1	52
97	Recent change in organic carbon flux to Arctic Ocean deep basins: Evidence from acid volatile sulfide, manganese and rhenium discord in sediments. <i>Geophysical Research Letters</i> , 2001, 28, 1743-1746.	4.0	50
98	Elemental and stable isotopic constraints on river influence and patterns of nitrogen cycling and biological productivity in Hudson Bay. <i>Continental Shelf Research</i> , 2010, 30, 163-176.	1.8	50
99	Effects of future climate change on primary productivity and export fluxes in the Beaufort Sea. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
100	Partitioning and bioaccumulation of PCBs and PBDEs in marine plankton from the Strait of Georgia, British Columbia, Canada. <i>Progress in Oceanography</i> , 2013, 115, 65-75.	3.2	50
101	Canadian Basin freshwater sources and changes: Results from the 2005 Arctic Ocean Section. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2133-2154.	2.6	50
102	Organic carbon and colloids in the Mackenzie River and Beaufort Sea. <i>Marine Chemistry</i> , 1989, 26, 371-378.	2.3	49
103	The storage of reactive silicate samples by freezing. <i>Limnology and Oceanography</i> , 1986, 31, 1139-1142.	3.1	48
104	Petroleum biomarker sources in suspended particulate matter and sediments from the Fraser River Basin and Strait of Georgia, Canada. <i>Organic Geochemistry</i> , 2003, 34, 1525-1541.	1.8	48
105	Biogeographic Provinces of Total and Methyl Mercury in Zooplankton and Fish from the Beaufort and Chukchi Seas: Results from the SHEBA Drift. <i>Environmental Science & Technology</i> , 2005, 39, 4707-4713.	10.0	48
106	The effect of storage by freezing on dissolved inorganic phosphate, nitrate and reactive silicate for samples from coastal and estuarine waters. <i>Water Research</i> , 1982, 16, 95-104.	11.3	46
107	There is no 1954 in that core! Interpreting sedimentation rates and contaminant trends in marine sediment cores. <i>Marine Pollution Bulletin</i> , 2012, 64, 675-678.	5.0	46
108	Multimolecular tracers of terrestrial carbon transfer across the pan- $\hat{\pm}$ Arctic: ^{14}C characteristics of sedimentary carbon components and their environmental controls. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1855-1873.	4.9	46

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109	Historical Trends in Mercury Sedimentation and Mixing in the Strait of Georgia, Canada. <i>Environmental Science & Technology</i> , 2005, 39, 4361-4368.	10.0	45
110	Hexachlorocyclohexanes in the Canadian Archipelago. 1. Spatial Distribution and Pathways of $\hat{1}\pm$, $\hat{1}^2$ -, and $\hat{1}^3$ -HCHs in Surface Water. <i>Environmental Science & Technology</i> , 2007, 41, 2688-2695.	10.0	45
111	Dinoflagellate cyst production over an annual cycle in seasonally ice-covered Hudson Bay. <i>Marine Micropaleontology</i> , 2016, 125, 1-24.	1.2	45
112	Environmental fractionation of PCBs and PBDEs during particle transport as recorded by sediments in coastal waters. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1522-1532.	4.3	44
113	Vulnerability of a semienclosed estuarine sea to ocean acidification in contrast with hypoxia. <i>Geophysical Research Letters</i> , 2016, 43, 5793-5801.	4.0	44
114	Natural and Anthropogenic Mercury Distribution in Marine Sediments from Hudson Bay, Canada. <i>Environmental Science & Technology</i> , 2010, 44, 5805-5811.	10.0	43
115	Climatology of sediment flux and composition in the subarctic Northeast Pacific Ocean with biogeochemical implications. <i>Progress in Oceanography</i> , 2013, 116, 95-129.	3.2	41
116	On the natural enrichment of cadmium and molybdenum in the sediments of ucluelet inlet, British Columbia. <i>Science of the Total Environment</i> , 1989, 79, 125-139.	8.0	40
117	Distributions of runoff, sea-ice melt and brine using $\hat{1}^{18}O$ and salinity data " A new view on freshwater cycling in Hudson Bay. <i>Journal of Marine Systems</i> , 2011, 88, 362-374.	2.1	40
118	Using the composition in landfast ice as a record of arctic estuarine processes. <i>Marine Chemistry</i> , 1999, 65, 3-24.	2.3	39
119	Distribution and Cycling of Suspended Particles Inferred from Transmissivity in the Strait of Georgia, Haro Strait and Juan de Fuca Strait. <i>Atmosphere - Ocean</i> , 2006, 44, 17-27.	1.6	39
120	Sea ice, hydrological, and biological processes in the Churchill River estuary region, Hudson Bay. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 77, 369-384.	2.1	39
121	Natural rates of sediment containment of PAH, PCB and metal inventories in Sydney Harbour, Nova Scotia. <i>Science of the Total Environment</i> , 2009, 407, 4858-4869.	8.0	39
122	Towards a sediment and organic carbon budget for Hudson Bay. <i>Marine Geology</i> , 2009, 264, 190-208.	2.1	39
123	Coastal conduit in southwestern Hudson Bay (Canada) in summer: Rapid transit of freshwater and significant loss of colored dissolved organic matter. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
124	Are Arctic Ocean ecosystems exceptionally vulnerable to global emissions of mercury? A call for emphasised research on methylation and the consequences of climate change. <i>Environmental Chemistry</i> , 2010, 7, 133.	1.5	39
125	^{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
126	Subsurface seawater methylmercury maximum explains biotic mercury concentrations in the Canadian Arctic. <i>Scientific Reports</i> , 2018, 8, 14465.	3.3	39

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127	Chemical interactions and sediments of the western Canadian arctic shelf. <i>Continental Shelf Research</i> , 1991, 11, 843-863.	1.8	38
128	Chemical“environment interactions affecting the risk of impacts on aquatic organisms: A review with a Canadian perspective” interactions affecting vulnerability. <i>Environmental Reviews</i> , 2008, 16, 19-44.	4.5	38
129	Why timing matters in a coastal sea: Trends, variability and tipping points in the Strait of Georgia, Canada. <i>Journal of Marine Systems</i> , 2014, 131, 36-53.	2.1	38
130	Mercury Accumulation in Harbour Seals from the Northeastern Pacific Ocean: The Role of Transplacental Transfer, Lactation, Age and Location. <i>Archives of Environmental Contamination and Toxicology</i> , 2016, 70, 56-66.	4.1	38
131	Current use pesticide and legacy organochlorine pesticide dynamics at the ocean-sea ice-atmosphere interface in resolute passage, Canadian Arctic, during winter-summer transition. <i>Science of the Total Environment</i> , 2017, 580, 1460-1469.	8.0	38
132	Contemporary and preindustrial mass budgets of mercury in the Hudson Bay Marine System: The role of sediment recycling. <i>Science of the Total Environment</i> , 2008, 406, 190-204.	8.0	37
133	The Effect of Pressure on the Solubility of CaCO ₃ , CaF ₂ , and SrSO ₄ in Water. <i>Canadian Journal of Chemistry</i> , 1974, 52, 3181-3186.	1.1	36
134	Punctuated recovery of sediments and benthic infauna: a 19-year study of tailings deposition in a British Columbia fjord. <i>Marine Environmental Research</i> , 2000, 49, 145-175.	2.5	36
135	Microbial degradation is a key elimination pathway of hexachlorocyclohexanes from the Arctic Ocean. <i>Geophysical Research Letters</i> , 2000, 27, 1155-1158.	4.0	36
136	Biogeochemical Controls on PCB Deposition in Hudson Bay. <i>Environmental Science & Technology</i> , 2010, 44, 3280-3285.	10.0	36
137	Spatial variations in geochemical characteristics of the modern Mackenzie Delta sedimentary system. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 100-120.	3.9	36
138	The Mackenzie Estuary of the Arctic Ocean. , 0, , 91-120.		35
139	Tracing salmon-derived nutrients and contaminants in freshwater food webs across a pronounced spawner density gradient. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1100-1108.	4.3	35
140	Human exposure to polychlorinated biphenyls embodied in global fish trade. <i>Nature Food</i> , 2020, 1, 292-300.	14.0	35
141	The international polar year (IPY) circumpolar flaw lead (CFL) system study: The importance of brine processes for ¹²⁹ I and ¹³⁷ Cs hexachlorocyclohexane (HCH) accumulation or rejection in sea ice. <i>Atmosphere - Ocean</i> , 2010, 48, 244-262.	1.6	34
142	The role of eddies on particle flux in the Canada Basin of the Arctic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 71, 1-20.	1.4	34
143	Spatial, temporal, and source variations of hydrocarbons in marine sediments from Baffin Bay, Eastern Canadian Arctic. <i>Science of the Total Environment</i> , 2015, 506-507, 430-443.	8.0	34
144	Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. <i>Environmental Research Letters</i> , 2020, 15, 124075.	5.2	34

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145	Transformation of Mercury at the Bottom of the Arctic Food Web: An Overlooked Puzzle in the Mercury Exposure Narrative. <i>Environmental Science & Technology</i> , 2014, 48, 7280-7288.	10.0	33
146	The vulnerability of Arctic shelf sediments to climate change. <i>Environmental Reviews</i> , 2015, 23, 461-479.	4.5	33
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