

Robie W Macdonald

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

249
papers

17,773
citations

68
h-index

126
g-index

271
ext. papers

19,528
ext. citations

5.9
avg, IF

6.55
L-index

#	Paper	IF	Citations
249	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	3.1	2851
248	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009 , 79, 523-555	9	699
247	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	10.2	526
246	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	10.2	512
245	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	10.2	317
244	Interactions between climate change and contaminants. <i>Marine Pollution Bulletin</i> , 2007 , 54, 1845-56	6.7	262
243	A sediment and organic carbon budget for the Canadian Beaufort Shelf. <i>Marine Geology</i> , 1998 , 144, 255-333	3.3	228
242	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	3.7	220
241	Distribution and sources of organic biomarkers in arctic sediments from the Mackenzie River and Beaufort Shelf. <i>Marine Chemistry</i> , 2000 , 71, 23-51	3.7	218
240	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	10.3	215
239	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	3.7	210
238	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	5.9	209
237	Phytoplankton productivity on the Canadian Shelf of the Beaufort Sea. <i>Marine Ecology - Progress Series</i> , 2004 , 277, 37-50	2.6	208
236	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		201
235	Mobilization pathways of organic carbon from permafrost to arctic rivers in a changing climate. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	197
234	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	3.8	188
233	Biologically mediated transport of contaminants to aquatic systems. <i>Environmental Science & Technology</i> , 2007 , 41, 1075-84	10.3	185

232	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	4.9	178
231	Waters of the Makarov and Canada basins. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997 , 44, 1503-1529	2.3	174
230	Oceanography of the Canadian Shelf of the Beaufort Sea: A Setting for Marine Life. <i>Arctic</i> , 2002 , 55,	2.1	170
229	How does climate change influence Arctic mercury?. <i>Science of the Total Environment</i> , 2012 , 414, 22-42	10.2	169
228	The freshwater budget and under-ice spreading of Mackenzie River water in the Canadian Beaufort Sea based on salinity and 18O/16O measurements in water and ice. <i>Journal of Geophysical Research</i> , 1995 , 100, 895		167
227	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	6.2	165
226	Constraints on the origin of sedimentary organic carbon in the Beaufort Sea from coupled molecular 13C and 14C measurements. <i>Marine Chemistry</i> , 2007 , 103, 146-162	3.7	165
225	Sources and Significance of Alkane and PAH Hydrocarbons in Canadian Arctic Rivers. <i>Estuarine, Coastal and Shelf Science</i> , 2002 , 55, 1-31	2.9	163
224	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	2.3	156
223	Natural and anthropogenic inputs of hydrocarbons to the Strait of Georgia. <i>Science of the Total Environment</i> , 1999 , 225, 181-209	10.2	153
222	Organic carbon isotope ratios ($\delta^{13}C$) of Arctic Amerasian Continental shelf sediments. <i>International Journal of Earth Sciences</i> , 2000 , 89, 522-532	2.2	152
221	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	10.3	152
220	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	3.1	148
219	The Arctic Ocean Estuary. <i>Estuaries and Coasts</i> , 2012 , 35, 353-368	2.8	147
218	Particle fluxes and geochemistry on the Canadian Beaufort Shelf: Implications for sediment transport and deposition. <i>Continental Shelf Research</i> , 2006 , 26, 41-81	2.4	147
217	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	5.5	145
216	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	6.7	140
215	A mass balance inventory of mercury in the Arctic Ocean. <i>Environmental Chemistry</i> , 2008 , 5, 89	3.2	139

214	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	2.5	127
213	The transport of beta-hexachlorocyclohexane to the western Arctic Ocean: a contrast to alpha-HCH. <i>Science of the Total Environment</i> , 2002 , 291, 229-46	10.2	122
212	Increasing contaminant burdens in an arctic fish, Burbot (<i>Lota lota</i>), in a warming climate. <i>Environmental Science & Technology</i> , 2010 , 44, 316-22	10.3	116
211	Carbon dynamics in sea ice: A winter flux time series. <i>Journal of Geophysical Research</i> , 2011 , 116,		115
210	Persistent organic pollutants in British Columbia grizzly bears: consequence of divergent diets. <i>Environmental Science & Technology</i> , 2005 , 39, 6952-60	10.3	113
209	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, 467-82	4.5	111
208	Aquatic ecology: delivery of pollutants by spawning salmon. <i>Nature</i> , 2003 , 425, 255-6	50.4	110
207	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	2.5	110
206	Mercury Profiles in Sediments of the Arctic Ocean Basins. <i>Environmental Science & Technology</i> , 1999 , 33, 4194-4198	10.3	109
205	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 Kuujjuarapik (Canada). <i>Science of the Total Environment</i> , 2005 , 342, 185-98	10.2	108
204	Composition and Origins of Polycyclic Aromatic Hydrocarbons in the Mackenzie River and on the Beaufort Sea Shelf. <i>Arctic</i> , 1995 , 48,	2.1	108
203	Diagenetic separation of cadmium and manganese in suboxic continental margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 4647-4654	5.5	107
202	Alkane and PAH biomarkers as tracers of terrigenous organic carbon in Arctic Ocean sediments. <i>Organic Geochemistry</i> , 2011 , 42, 1109-1109	3.1	103
201	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, 178-95	10.2	100
200	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	2.4	100
199	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		97
198	The role of the global cryosphere in the fate of organic contaminants. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3271-3305	6.8	96
197	The fate of mercury in Arctic terrestrial and aquatic ecosystems, a review. <i>Environmental Chemistry</i> , 2012 , 9, 321	3.2	92

196	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	4.9	89
195	Exploring continental margin carbon fluxes on a global scale. <i>Eos</i> , 2000 , 81, 641	1.5	86
194	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	2.3	84
193	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, 171-80	10.2	84
192	Killer whales (<i>Orcinus orca</i>) face protracted health risks associated with lifetime exposure to PCBs. <i>Environmental Science & Technology</i> , 2007 , 41, 6613-9	10.3	83
191	Seabird-driven shifts in Arctic pond ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 591-6	4.4	82
190	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	10.2	82
189	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	10.2	81
188	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	3.8	81
187	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	1.7	79
186	Joint effects of wind and ice motion in forcing upwelling in Mackenzie Trough, Beaufort Sea. <i>Continental Shelf Research</i> , 2006 , 26, 2352-2366	2.4	76
185	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	4.2	74
184	A sediment and organic carbon budget for the greater Strait of Georgia. <i>Estuarine, Coastal and Shelf Science</i> , 2003 , 56, 845-860	2.9	73
183	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	3.3	68
182	Sources and burden of lead in St. Lawrence estuary sediments: isotopic evidence. <i>Environmental Science & Technology</i> , 1995 , 29, 193-201	10.3	68
181	The role of depositional regime on carbon transport and preservation in Arctic Ocean sediments. <i>Marine Chemistry</i> , 2004 , 86, 65-88	3.7	62
180	Atlantic water flow pathways revealed by lead contamination in Arctic basin sediments. <i>Science</i> , 2001 , 293, 1301-4	33.3	62
179	The role of large-scale under-ice topography in separating estuary and ocean on an arctic shelf. <i>Atmosphere - Ocean</i> , 1991 , 29, 37-53	1.5	62

178	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	10.3	61
177	Manganese Sources and Sinks in the Arctic Ocean with Reference to Periodic Enrichments in Basin Sediments. <i>Aquatic Geochemistry</i> , 2012 , 18, 565-591	1.7	60
176	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	4.6	60
175	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	2.5	60
174	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, 2426-33	3.8	59
173	Sources, pathways and sinks of particulate organic matter in Hudson Bay: Evidence from lignin distributions. <i>Marine Chemistry</i> , 2008 , 112, 215-229	3.7	58
172	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, n/a-n/a		57
171	Mercury biomagnification in marine zooplankton food webs in Hudson Bay. <i>Environmental Science & Technology</i> , 2012 , 46, 12952-9	10.3	57
170	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010 , 2, 231-236	7.2	54
169	Total and methylated mercury in the Beaufort Sea: the role of local and recent organic remineralization. <i>Environmental Science & Technology</i> , 2012 , 46, 11821-8	10.3	52
168	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	2.7	52
167	Joined by geochemistry, divided by history: PCBs and PBDEs in Strait of Georgia sediments. <i>Marine Environmental Research</i> , 2008 , 66 Suppl, S112-20	3.3	51
166	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	2.5	50
165	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	5.5	50
164	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	1.7	49
163	Trifluoroacetate profiles in the Arctic, Atlantic, and Pacific Oceans. <i>Environmental Science & Technology</i> , 2005 , 39, 6555-60	10.3	49
162	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	10.3	49
161	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	3.1	48

160	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	3.7	48
159	Historical alpha-HCH budget in the Arctic Ocean: the Arctic Mass Balance Box Model (AMBBM). <i>Science of the Total Environment</i> , 2004 , 324, 115-39	10.2	46
158	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	3.3	46
157	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	10.3	45
156	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, 4707-13	10.3	45
155	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	4.9	45
154	Effects of future climate change on primary productivity and export fluxes in the Beaufort Sea. <i>Journal of Geophysical Research</i> , 2010 , 115,		44
153	Organic carbon and colloids in the Mackenzie River and Beaufort Sea. <i>Marine Chemistry</i> , 1989 , 26, 371-378	3.7	44
152	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	3.1	43
151	Geoengineering with seagrasses: is credit due where credit is given?. <i>Environmental Research Letters</i> , 2016 , 11, 113001	6.2	43
150	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	2.4	42
149	Historical trends in mercury sedimentation and mixing in the Strait of Georgia, Canada. <i>Environmental Science & Technology</i> , 2005 , 39, 4361-8	10.3	41
148	Spatiotemporal patterns of mercury accumulation in lake sediments of western North America. <i>Science of the Total Environment</i> , 2016 , 568, 1157-1170	10.2	40
147	There is no 1954 in that core! Interpreting sedimentation rates and contaminant trends in marine sediment cores. <i>Marine Pollution Bulletin</i> , 2012 , 64, 675-8	6.7	40
146	Canadian Basin freshwater sources and changes: Results from the 2005 Arctic Ocean Section. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 2133-2154	3.3	40
145	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	1.6	40
144	Hexachlorocyclohexanes in the Canadian archipelago. 1. Spatial distribution and pathways of alpha-, beta- and gamma-HCHS in surface water. <i>Environmental Science & Technology</i> , 2007 , 41, 2688-95	10.3	39
143	Multimolecular tracers of terrestrial carbon transfer across the pan-Arctic: 14C characteristics of sedimentary carbon components and their environmental controls. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1855-1873	5.9	38

142	Environmental fractionation of PCBs and PBDEs during particle transport as recorded by sediments in coastal waters. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 1522-32	3.8	37
141	Dinoflagellate cyst production over an annual cycle in seasonally ice-covered Hudson Bay. <i>Marine Micropaleontology</i> , 2016 , 125, 1-24	1.7	36
140	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, 4858-69	10.2	36
139	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	12.5	36
138	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	3.8	35
137	Natural and anthropogenic mercury distribution in marine sediments from Hudson Bay, Canada. <i>Environmental Science & Technology</i> , 2010 , 44, 5805-11	10.3	35
136	Towards a sediment and organic carbon budget for Hudson Bay. <i>Marine Geology</i> , 2009 , 264, 190-208	3.3	35
135	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,		34
134	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	10.2	33
133	Using the $\delta^{18}O$ composition in landfast ice as a record of arctic estuarine processes. <i>Marine Chemistry</i> , 1999 , 65, 3-24	3.7	33
132	Biogeochemical controls on PCB deposition in Hudson Bay. <i>Environmental Science & Technology</i> , 2010 , 44, 3280-5	10.3	32
131	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	2.9	32
130	Tracing salmon-derived nutrients and contaminants in freshwater food webs across a pronounced spawner density gradient. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 1100-8	3.8	32
129	The Mackenzie Estuary of the Arctic Ocean		32
128	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	1.5	32
127	Microbial degradation is a key elimination pathway of hexachlorocyclohexanes from the Arctic Ocean. <i>Geophysical Research Letters</i> , 2000 , 27, 1155-1158	4.9	32
126	Chemical interactions and sediments of the western Canadian arctic shelf. <i>Continental Shelf Research</i> , 1991 , 11, 843-863	2.4	32
125	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	0.9	32

124	Distributions of runoff, sea-ice melt and brine using $\delta^{18}O$ and salinity data – A new view on freshwater cycling in Hudson Bay. <i>Journal of Marine Systems</i> , 2011 , 88, 362-374	2.7	31
123	The international polar year (IPY) circumpolar flaw lead (CFL) system study: The importance of brine processes for $\delta^{18}O$ and Hexachlorocyclohexane (HCH) accumulation or rejection in sea ice. <i>Atmosphere - Ocean</i> , 2010 , 48, 244-262	1.5	31
122	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	31
121	Concentrations and fluxes of salmon-derived polychlorinated biphenyls (PCBs) in lake sediments. <i>Environmental Science & Technology</i> , 2005 , 39, 7020-6	10.3	31
120	The storage of reactive silicate samples by freezing. <i>Limnology and Oceanography</i> , 1986 , 31, 1139-1142	4.8	31
119	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	2.7	30
118	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, 125-39	10.2	30
117	Oxygen in the deep Strait of Georgia, 1951–2009: The roles of mixing, deep-water renewal, and remineralization of organic carbon. <i>Limnology and Oceanography</i> , 2014 , 59, 211-222	4.8	29
116	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	3.2	29
115	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, 145-75	3.3	29
114	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, 7280-8	10.3	28
113	^{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	5.9	28
112	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	3.2	27
111	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, 430-43	10.2	27
110	Responses of subtidal benthos of the Strait of Georgia, British Columbia, Canada to ambient sediment conditions and natural and anthropogenic depositions. <i>Marine Environmental Research</i> , 2008 , 66 Suppl, S62-79	3.3	27
109	The vulnerability of Arctic shelf sediments to climate change. <i>Environmental Reviews</i> , 2015 , 23, 461-479	4.5	26
108	The delivery of organic contaminants to the Arctic food web: why sea ice matters. <i>Science of the Total Environment</i> , 2015 , 506-507, 444-52	10.2	26
107	Characterization of sedimentary organic matter in recent marine sediments from Hudson Bay, Canada, by Rock-Eval pyrolysis. <i>Organic Geochemistry</i> , 2014 , 68, 52-60	3.1	26

106	PBDE and PCB accumulation in benthos near marine wastewater outfalls: the role of sediment organic carbon. <i>Environmental Pollution</i> , 2012 , 171, 241-8	9.3	26
105	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	2.5	26
104	Accelerated delivery of polychlorinated biphenyls (PCBs) in recent sediments near a large seabird colony in Arctic Canada. <i>Environmental Pollution</i> , 2009 , 157, 2769-75	9.3	26
103	Sediment redox tracers in Strait of Georgia sediments--can they inform us of the loadings of organic carbon from municipal wastewater?. <i>Marine Environmental Research</i> , 2008 , 66 Suppl, S87-100	3.3	26
102	Vulnerability of a semienclosed estuarine sea to ocean acidification in contrast with hypoxia. <i>Geophysical Research Letters</i> , 2016 , 43, 5793-5801	4.9	26
101	Subsurface seawater methylmercury maximum explains biotic mercury concentrations in the Canadian Arctic. <i>Scientific Reports</i> , 2018 , 8, 14465	4.9	26
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