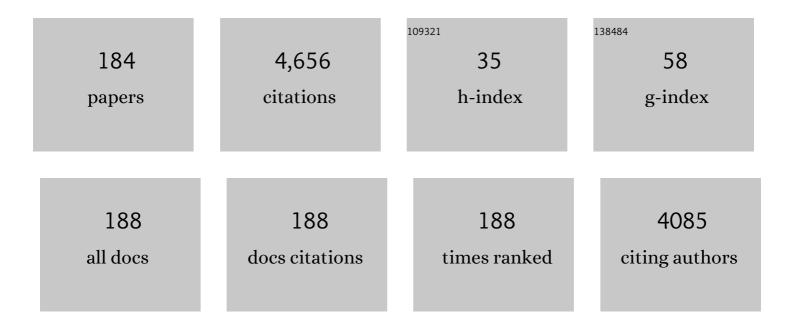
David G Barber

List of Publications by Year in descending order

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DAVID C. RADRED

#	Article	IF	CITATIONS
1	Climate variability and physical forcing of the food webs and the carbon budget on panarctic shelves. Progress in Oceanography, 2006, 71, 145-181.	3.2	220
2	Contribution of underâ€ice primary production to an iceâ€edge upwelling phytoplankton bloom in the Canadian Beaufort Sea. Geophysical Research Letters, 2009, 36, .	4.0	209
3	Vertical stability and the annual dynamics of nutrients and chlorophyll fluorescence in the coastal, southeast Beaufort Sea. Journal of Geophysical Research, 2008, 113, .	3.3	205
4	Selected physical, biological and biogeochemical implications of a rapidly changing Arctic Marginal Ice Zone. Progress in Oceanography, 2015, 139, 122-150.	3.2	140
5	Distribution, characteristics and potential impacts of chromophoric dissolved organic matter (CDOM) in Hudson Strait and Hudson Bay, Canada. Continental Shelf Research, 2007, 27, 2032-2050.	1.8	113
6	Meteorological forcing of sea ice concentrations in the southern Beaufort Sea over the period 1979 to 2000. Journal of Geophysical Research, 2004, 109, .	3.3	112
7	Characteristics of two distinct high-light acclimated algal communities during advanced stages of sea ice melt. Polar Biology, 2011, 34, 1869-1886.	1.2	101
8	Sea Ice Motion Tracking From Sequential Dual-Polarization RADARSAT-2 Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 121-136.	6.3	97
9	An overview of physical processes in the North Water. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4893-4906.	1.4	90
10	Fracture of summer perennial sea ice by ocean swell as a result of Arctic storms. Journal of Geophysical Research, 2012, 117, .	3.3	90
11	Hydrological forcing of a recent trophic surge in Lake Winnipeg. Journal of Great Lakes Research, 2012, 38, 95-105.	1.9	86
12	The role of snow on the thermal dependence of microwave backscatter over sea ice. Journal of Geophysical Research, 1999, 104, 25789-25803.	3.3	83
13	Sea ice and the onshore–offshore gradient in pre-winter zooplankton assemblages in southeastern Beaufort Sea. Journal of Marine Systems, 2008, 74, 994-1011.	2.1	82
14	Impact of horizontal spreading on light propagation in melt pond covered seasonal sea ice in the Canadian Arctic. Journal of Geophysical Research, 2011, 116, .	3.3	75
15	An Update on the Ice Climatology of the Hudson Bay System. Arctic, Antarctic, and Alpine Research, 2014, 46, 66-83.	1.1	73
16	Variability in the annual cycle of vertical particulate organic carbon export on Arctic shelves: Contrasting the Laptev Sea, Northern Baffin Bay and the Beaufort Sea. Continental Shelf Research, 2009, 29, 2157-2165.	1.8	66
17	Perennial pack ice in the southern Beaufort Sea was not as it appeared in the summer of 2009. Geophysical Research Letters, 2009, 36, .	4.0	66
18	Projecting present and future habitat suitability of ship-mediated aquatic invasive species in the Canadian Arctic. Biological Invasions, 2018, 20, 501-517.	2.4	66

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19	Arctic Ocean outflow shelves in the changing Arctic: A review and perspectives. Progress in Oceanography, 2015, 139, 66-88.	3.2	65
20	Surface sediment dinoflagellate cysts from the Hudson Bay system and their relation to freshwater and nutrient cycling. Marine Micropaleontology, 2014, 106, 79-109.	1.2	63
21	Survival of Arctic cod larvae (Boreogadus saida) in relation to sea ice and temperature in the Northeast Water Polynya (Greenland Sea). Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1608-1616.	1.4	58
22	The annual cycle of particulate organic carbon export in Franklin Bay (Canadian Arctic): Environmental control and food web implications. Journal of Geophysical Research, 2008, 113, .	3.3	58
23	An examination of the distribution of snow on seaâ€ice. Atmosphere - Ocean, 1999, 37, 21-51.	1.6	55
24	Surface and melt pond evolution on landfast first-year sea ice in the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2014, 119, 3054-3075.	2.6	53
25	Mercury Distribution and Transport Across the Oceanâ^'Sea-Iceâ^'Atmosphere Interface in the Arctic Ocean. Environmental Science & amp; Technology, 2011, 45, 1866-1872.	10.0	52
26	C-Band Polarimetric Backscattering Signatures of Newly Formed Sea Ice During Fall Freeze-Up. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3256-3267.	6.3	49
27	Sea ice thickness in the Eastern Canadian Arctic: Hudson Bay Complex & Baffin Bay. Remote Sensing of Environment, 2017, 200, 281-294.	11.0	45
28	Field and satellite observations of the formation and distribution of Arctic atmospheric bromine above a rejuvenated sea ice cover. Journal of Geophysical Research, 2012, 117, .	3.3	43
29	Landfast Sea Ice Conditions in the Canadian Arctic: 1983 – 2009. Arctic, 2012, 65, .	0.4	43
30	Ocean Surface Wind Speed Retrieval From C-Band SAR Images Without Wind Direction Input. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 980-990.	6.3	42
31	Atlantic water flow into the Arctic Ocean through the St. Anna Trough in the northern Kara Sea. Journal of Geophysical Research: Oceans, 2015, 120, 5158-5178.	2.6	42
32	Spatial and temporal variation of photosynthetic parameters in natural phytoplankton assemblages in the Beaufort Sea, Canadian Arctic. Polar Biology, 2011, 34, 1915-1928.	1.2	41
33	Open-Ended Coaxial Probe Technique for Dielectric Spectroscopy of Artificially Grown Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4941-4951.	6.3	40
34	Coastal conduit in southwestern Hudson Bay (Canada) in summer: Rapid transit of freshwater and significant loss of colored dissolved organic matter. Journal of Geophysical Research, 2009, 114, .	3.3	39
35	Investigations of newly formed sea ice in the Cape Bathurst polynya: 2. Microwave emission. Journal of Geophysical Research, 2007, 112, .	3.3	38
36	Current use pesticide and legacy organochlorine pesticide dynamics at the ocean-sea ice-atmosphere interface in resolute passage, Canadian Arctic, during winter-summer transition. Science of the Total Environment, 2017, 580, 1460-1469.	8.0	38

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37	Atmospheric forcing of the Beaufort Sea ice gyre: Surface pressure climatology and sea ice motion. Journal of Geophysical Research, 2009, 114, .	3.3	36
38	Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1271-1286.	6.3	32
39	Importance of combined winter and summer Arctic Oscillation (AO) on September sea ice extent. Environmental Research Letters, 2016, 11, 034019.	5.2	32
40	Characterization of sedimentary organic matter in recent marine sediments from Hudson Bay, Canada, by Rock-Eval pyrolysis. Organic Geochemistry, 2014, 68, 52-60.	1.8	31
41	A Study on the C-Band Polarimetric Scattering and Physical Characteristics of Frost Flowers on Experimental Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1787-1798.	6.3	31
42	The delivery of organic contaminants to the Arctic food web: Why sea ice matters. Science of the Total Environment, 2015, 506-507, 444-452.	8.0	31
43	On the Links between Microwave and Solar Wavelength Interactions with Snow-Covered First-Year Sea Ice. Arctic, 1994, 47, .	0.4	31
44	The SIMMS Program: A Study of Change and Variability within the Marine Cryosphere. Arctic, 1994, 47, .	0.4	30
45	Investigations of newly formed sea ice in the Cape Bathurst polynya: 1. Structural, physical, and optical properties. Journal of Geophysical Research, 2007, 112, .	3.3	29
46	On the winter evolution of snow thermophysical properties over land-fast first-year sea ice. Hydrological Processes, 2007, 21, 705-716.	2.6	29
47	Bioâ€optical and structural properties inferred from irradiance measurements within the bottommost layers in an Arctic landfast sea ice cover. Journal of Geophysical Research, 2008, 113, .	3.3	29
48	Dual-Polarization C-Band Radar Observations of Sea Ice in the Amundsen Gulf. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2685-2691.	6.3	29
49	Implications of fractured Arctic perennial ice cover on thermodynamic and dynamic sea ice processes. Journal of Geophysical Research: Oceans, 2014, 119, 2327-2343.	2.6	29
50	Albedo feedback enhanced by smoother Arctic sea ice. Geophysical Research Letters, 2015, 42, 10,714.	4.0	29
51	Remote Estimates of Ice Algae Biomass and Their Response to Environmental Conditions during Spring Melt. Arctic, 2014, 67, 375.	0.4	29
52	Climate change and sea ice: Shipping in Hudson Bay, Hudson Strait, and Foxe Basin (1980–2016). Elementa, 2018, 6, .	3.2	29
53	Role of diurnal processes in the seasonal evolution of sea ice and its snow cover. Journal of Geophysical Research, 1999, 104, 13593-13603.	3.3	28
54	Observations of Snow Water Equivalent Change on Landfast First-Year Sea Ice in Winter Using Synthetic Aperture Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1005-1015.	6.3	28

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55	Zooplankton boom and ice amphipod bust below melting sea ice in the Amundsen Gulf, Arctic Canada. Polar Biology, 2011, 34, 1947-1958.	1.2	28
56	Sea ice breakup and marine melt of a retreating tidewater outlet glacier in northeast Greenland (81°N). Scientific Reports, 2017, 7, 4941.	3.3	27
57	Examination of Beluga-habitat Relationships through the Use of Telemetry and a Geographic Information System. Arctic, 2001, 54, .	0.4	27
58	Physical, dielectric, and C band microwave scattering properties of firstâ€year sea ice during advanced melt. Journal of Geophysical Research, 2010, 115, .	3.3	26
59	Consequences of change and variability in sea ice on marine ecosystem and biogeochemical processes during the 2007–2008 Canadian International Polar Year program. Climatic Change, 2012, 115, 135-159.	3.6	24
60	Polynya impacts on water properties in a Northeast Greenland fjord. Estuarine, Coastal and Shelf Science, 2015, 153, 10-17.	2.1	24
61	Essential gaps and uncertainties in the understanding of the roles and functions of Arctic sea ice. Environmental Research Letters, 2019, 14, 043002.	5.2	24
62	Revisiting the Circulation of Hudson Bay: Evidence for a Seasonal Pattern. Geophysical Research Letters, 2019, 46, 3891-3899.	4.0	24
63	Atmospheric Temperature and Absolute Humidity Profiles over the Beaufort Sea and Amundsen Gulf from a Microwave Radiometer. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1182-1201.	1.3	23
64	Multiyear sea ice export through the Bering Strait during winter 2011-2012. Journal of Geophysical Research: Oceans, 2013, 118, 5489-5503.	2.6	23
65	Sensitivity of freshwater dynamics to ocean model resolution and river discharge forcing in the Hudson Bay Complex. Journal of Marine Systems, 2019, 196, 48-64.	2.1	23
66	Enhanced bottom-ice algal biomass across a tidal strait in the Kitikmeot Sea of the Canadian Arctic. Elementa, 2019, 7, .	3.2	23
67	The Role of Earth Observation Technologies in Flood Mapping: A Manitoba Case Study. Canadian Journal of Remote Sensing, 1996, 22, 137-143.	2.4	22
68	When will α-HCH disappear from the western Arctic Ocean?. Journal of Marine Systems, 2013, 127, 88-100.	2.1	22
69	Beluga (Delphinapterus leucas) habitat selection in the eastern Beaufort Sea in spring, 1975–1979. Polar Biology, 2011, 34, 1973-1988.	1.2	21
70	Change and variability in sea ice during the 2007–2008 Canadian International Polar Year program. Climatic Change, 2012, 115, 115-133.	3.6	21
71	Shelfbreak current over the Canadian Beaufort Sea continental slope: Windâ€driven events in January 2005. Journal of Geophysical Research: Oceans, 2016, 121, 2447-2468.	2.6	21
72	Spring conditions and habitat use of beluga whales (Delphinapterus leucas) during arrival to the Mackenzie River Estuary. Polar Biology, 2016, 39, 2319-2334.	1.2	21

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73	Storm Studies in the Arctic (STAR). Bulletin of the American Meteorological Society, 2010, 91, 47-68.	3.3	21
74	Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4063-4078.	6.3	20
75	A new clear-sky downward longwave radiative flux parameterization for Arctic areas based on rawinsonde data. Journal of Geophysical Research, 2006, 111, .	3.3	19
76	Passive microwave remote sensing of seasonal snow-covered sea ice. Progress in Physical Geography, 2007, 31, 539-573.	3.2	19
77	Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4887-4898.	6.3	19
78	Record low sea-ice concentration in the central Arctic during summer 2010. Advances in Atmospheric Sciences, 2018, 35, 106-115.	4.3	19
79	Spectral albedo of snow-covered first-year and multi-year sea ice during spring melt. Annals of Glaciology, 1995, 21, 337-342.	1.4	18
80	A Controlled Experiment on Oil Release Beneath Thin Sea Ice and Its Electromagnetic Detection. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4406-4419.	6.3	18
81	Preface to special section on Beaufort Gyre Climate System Exploration Studies: Documenting key parameters to understand environmental variability. Journal of Geophysical Research, 2009, 114, .	3.3	17
82	An Electromagnetic Detection Case Study on Crude Oil Injection in a Young Sea Ice Environment. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4465-4475.	6.3	17
83	Effect of dissolution, evaporation, and photooxidation on crude oil chemical composition, dielectric properties and its radar signature in the Arctic environment Marine Pollution Bulletin, 2020, 151, 110629.	5.0	17
84	ELECTROMAGNETIC WAVE SCATTERING FROM ROUGH BOUNDARIES INTERFACING INHOMOGENEOUS MEDIA AND APPLICATION TO SNOW-COVERED SEA ICE. Progress in Electromagnetics Research, 2014, 144, 201-219.	4.4	16
85	Formation of winter water on the Canadian Beaufort shelf: New insight from observations during 2009–2011. Journal of Geophysical Research: Oceans, 2015, 120, 4090-4107.	2.6	16
86	Upwelling of Atlantic Water along the Canadian Beaufort Sea Continental Slope: Favorable Atmospheric Conditions and Seasonal and Interannual Variations. Journal of Climate, 2016, 29, 4509-4523.	3.2	16
87	Oil behavior in sea ice: Changes in chemical composition and resultant effect on sea ice dielectrics. Marine Pollution Bulletin, 2019, 142, 216-233.	5.0	16
88	Climate change and sea ice: Shipping accessibility on the marine transportation corridor through Hudson Bay and Hudson Strait (1980–2014). Elementa, 2017, 5, .	3.2	15
89	A Monte Carlo Method for Simulating Scattering From Sea Ice Using FVTD. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2658-2668.	6.3	14
90	Arctic Ocean outflow and glacier–ocean interactions modify water over the Wandel Sea shelf (northeastern Greenland). Ocean Science, 2017, 13, 1045-1060.	3.4	14

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91	Examining the Impact of a Crude Oil Spill on the Permittivity Profile and Normalized Radar Cross Section of Young Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 921-936.	6.3	14
92	Year-Round Dive Characteristics of Male Beluga Whales From the Eastern Beaufort Sea Population Indicate Seasonal Shifts in Foraging Strategies. Frontiers in Marine Science, 2022, 8, .	2.5	13
93	The Vertical Distribution of Runoff and its Suspended Load in Lake Malawi. Journal of Great Lakes Research, 2007, 33, 449-465.	1.9	12
94	On the Impact of Ice Emissivity on Sea Ice Temperature Retrieval Using Passive Microwave Radiance Data. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 448-452.	3.1	12
95	The effect of ocean heat flux on seasonal ice growth in Young Sound (Northeast Greenland). Journal of Geophysical Research: Oceans, 2015, 120, 4803-4824.	2.6	12
96	Storm-induced water dynamics and thermohaline structure at the tidewater Flade Isblink Glacier outlet to the Wandel Sea (NE Greenland). Ocean Science, 2017, 13, 947-959.	3.4	12
97	Change at the margin of the North Water Polynya, Baffin Bay, inferred from organic matter records in dated sediment cores. Marine Geology, 2013, 341, 1-13.	2.1	11
98	Baffin Bay narwhal (Monodon monoceros) select bathymetry over sea ice during winter. Polar Biology, 2018, 41, 2053-2063.	1.2	11
99	Impact of tidal dynamics on diel vertical migration of zooplankton in Hudson Bay. Ocean Science, 2020, 16, 337-353.	3.4	11
100	Micrometeorological and Thermal Control of Frost Flower Growth and Decay on Young Sea Ice. Arctic, 2015, 68, 79.	0.4	11
101	Science Issues Relating to Marine Aspects of the Cryosphere: Implications for Remote Sensing. Canadian Journal of Remote Sensing, 1992, 18, 46-54.	2.4	10
102	Temporal evolution of physical and dielectric properties of sea ice and snow during the early melt season: observations from SIMS '90 experiment. Journal of Glaciology, 1994, 40, 16-30.	2.2	10
103	On the classification of melt season first-year and multi-year sea ice in the Beaufort Sea using Radarsat-2 data. International Journal of Remote Sensing, 2013, 34, 3760-3774.	2.9	10
104	C-Band Polarimetric Coherences and Ratios for Discriminating Sea Ice Roughness. International Journal of Oceanography, 2013, 2013, 1-13.	0.2	10
105	Nonlinear Inversion of Microwave Scattering Data for Snow-Covered Sea-Ice Dielectric Profile Reconstruction. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 209-213.	3.1	10
106	Landfast First-Year Snow-Covered Sea Ice Reconstruction via Electromagnetic Inversion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2414-2428.	4.9	10
107	Photooxidation and biodegradation potential of a light crude oil in first-year sea ice. Marine Pollution Bulletin, 2021, 165, 112154.	5.0	10
108	Calibration of Aerial Thermal Infrared Imagery for Walrus Population Assessment. Arctic, 1991, 44, .	0.4	10

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109	Increasing Multiyear Sea Ice Loss in the Beaufort Sea: A New Export Pathway for the Diminishing Multiyear Ice Cover of the Arctic Ocean. Geophysical Research Letters, 2022, 49, .	4.0	10
110	Wintertime water dynamics and moonlight disruption of the acoustic backscatter diurnal signal in an iceâ€covered Northeast Greenland fjord. Journal of Geophysical Research: Oceans, 2016, 121, 4804-4818.	2.6	9
111	Tidally-generated internal waves in Southeast Hudson Bay. Continental Shelf Research, 2018, 167, 65-76.	1.8	9
112	Variability of the Pacificâ€Derived Arctic Water Over the Southeastern Wandel Sea Shelf (Northeast) Tj ETQq0 (0 0 rgBT /O	verlock 10 Tf
113	Occurrence, Distribution and Behaviour of Beluga (<i>Delphinapterus leucas</i>) and Bowhead (<i>Balaena mysticetus</i>) Whales at the Franklin Bay Ice Edge in June 2008. Arctic, 2012, 65, .	0.4	9
114	On sea ice concentration anomaly coherence in the southern Beaufort Sea. Geophysical Research Letters, 2005, 32, .	4.0	8
115	Pixel-scale evaluation of SSM/I sea-ice algorithms in the marginal ice zone during early fall freeze-up. Hydrological Processes, 2006, 20, 1909-1927.	2.6	8
116	Summer-to-Winter Sea-Ice Linkage between the Arctic Ocean and the Okhotsk Sea through Atmospheric Circulation. Journal of Climate, 2015, 28, 4971-4979.	3.2	8
117	Inversion-Based Sensitivity Analysis of Snow-Covered Sea Ice Electromagnetic Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3643-3655.	4.9	8
118	The influence of winter and summer atmospheric circulation on the variability of temperature and sea ice around Greenland. Tellus, Series A: Dynamic Meteorology and Oceanography, 2016, 68, 31971.	1.7	8
119	Evaluating Scattering Contributions to C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice at the Winter–Spring Transition Through Measurement and Modeling. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5702-5718.	6.3	8
120	Assessment and improvement of the sea ice processing for dissolved inorganic carbon analysis. Limnology and Oceanography: Methods, 2018, 16, 83-91.	2.0	8
121	Pan-arctic winter drift speeds and changing patterns of sea ice motion: 1979–2015. Polar Record, 2018, 54, 303-311.	0.8	8
122	Hudson Strait Inflow: Structure and Variability. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017089.	2.6	8
123	The ice factory of Hudson Bay. Elementa, 2021, 9, .	3.2	8
124	Wind-forced depth-dependent currents over the eastern Beaufort Sea continental slope: Implications for Pacific water transport. Elementa, 2018, 6, .	3.2	8
125	Modeling synthetic aperture radar (SAR) scattering from a seasonally varying snow-covered sea ice volume at 5.3 and 9.25 GHz. Polar Research, 1994, 13, 35-54.	1.6	7
126	On detection of the thermophysical state of landfast first-year sea ice using in-situ microwave emission during spring melt. Remote Sensing of Environment, 2007, 111, 148-159.	11.0	7

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127	Impact of ice temperature on microwave emissivity of thin newly formed sea ice. Journal of Geophysical Research, 2008, 113, .	3.3	7
128	An observational study of ice effects on Nelson River estuarine variability, Hudson Bay, Canada. Continental Shelf Research, 2012, 47, 68-77.	1.8	7
129	A Validation of CloudSat and CALIPSO's Temperature, Humidity, Cloud Detection, and Cloud Base Height over the Arctic Marine Cryosphere. Atmosphere - Ocean, 2013, 51, 249-264.	1.6	7
130	Retrieval of Young Snow-Covered Sea-Ice Temperature and Salinity Evolution Through Radar Cross-Section Inversion. IEEE Journal of Oceanic Engineering, 2016, 41, 326-338.	3.8	7
131	Investigations into Frost Flower Physical Characteristics and the C-Band Scattering Response. Remote Sensing, 2018, 10, 991.	4.0	7
132	Atmospheric vorticity sets the basin-scale circulation in Hudson Bay. Elementa, 2020, 8, .	3.2	7
133	Preface: The international North Water (NOW) polynya study. Atmosphere - Ocean, 2001, 39, i-i.	1.6	6
134	Detection of sea ice motion from co- and cross-polarization RADARSAT-2 images. , 2012, , .		6
135	<i>α</i> â€HCH enantiomer fraction (EF): A novel approach to calculate the ventilation age of water in the Arctic Ocean?. Journal of Geophysical Research, 2012, 117, .	3.3	6
136	Synoptic Climatology of the Southern Beaufort Sea Troposphere with Comparisons to Surface Winds. Atmosphere - Ocean, 2015, 53, 264-281.	1.6	6
137	Detection and tracking of belugas, kayaks and motorized boats in drone video using deep learning. Journal of Unmanned Vehicle Systems, 2022, 10, 77-96.	1.2	6
138	Landfast sea ice in Hudson Bay and James Bay. Elementa, 2022, 10, .	3.2	6
139	Seasonal characterization of microwave emissions from snow-covered first-year sea ice. Hydrological Processes, 2001, 15, 3571-3583.	2.6	5
140	Remote Sensing of the Coastal Zone of Tropical Lakes Using Synthetic Aperture Radar and Optical Data. Journal of Great Lakes Research, 2003, 29, 62-75.	1.9	5
141	Time Series of Daily Averaged Cloud Fractions over Landfast First-Year Sea Ice from Multiple Data Sources. Journal of Applied Meteorology and Climatology, 2007, 46, 1818-1827.	1.5	5
142	The Effect of Suspended Solids Loading from the Linthipe River on Light in Lake Malawi. Journal of Great Lakes Research, 2007, 33, 466-482.	1.9	5
143	Electromagnetic inversion for biomedical imaging, antenna characterization, and sea ice remote sensing applications. , 2016, , .		5
144	Lagrangian analysis of sea-ice dynamics in the Arctic Ocean. Polar Research, 2016, 35, 30778.	1.6	5

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145	Method to characterize directional changes in Arctic sea ice drift and associated deformation due to synoptic atmospheric variations using Lagrangian dispersion statistics. Cryosphere, 2017, 11, 1707-1731.	3.9	5
146	Modelling Sea Surface Temperature (SST) in the Hudson Bay Complex Using Bulk Heat Flux Parameterization: Sensitivity to Atmospheric Forcing, and Model Resolution. Atmosphere - Ocean, 2019, 57, 120-133.	1.6	5
147	The Influence of Surface Sediment Presence on Observed Passive Microwave Brightness Temperatures of First-Year Sea Ice during the Summer Melt Period. Canadian Journal of Remote Sensing, 2019, 45, 333-349.	2.4	5
148	Multi-scale observations of the co-evolution of sea ice thermophysical properties and microwave brightness temperatures during the summer melt period in Hudson Bay. Elementa, 2020, 8, .	3.2	5
149	Investigation into the geometry and distribution of oil inclusions in sea ice using non-destructive X-ray microtomography and its implications for remote sensing and mitigation potential. Marine Pollution Bulletin, 2021, 173, 112996.	5.0	5
150	Sea-ice and water dynamics and moonlight impact the acoustic backscatter diurnal signal over the eastern Beaufort Sea continental slope. Ocean Science, 2020, 16, 1261-1283.	3.4	5
151	Storm-driven hydrography of western Hudson Bay. Continental Shelf Research, 2021, 227, 104525.	1.8	4
152	Spectral albedo of snow-covered first-year and multi-year sea ice during spring melt. Annals of Glaciology, 1995, 21, 337-342.	1.4	4
153	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
154	Numerical scattering from 3D randomly rough surfaces using FVTD. , 2011, , .		3
155	The relationship between summer sea ice extent in Hudson Bay and the Arctic Ocean via the atmospheric circulation. Atmospheric Science Letters, 2016, 17, 603-609.	1.9	3
156	Examining the physical processes of corn oil (medium crude oil surrogate) in sea ice and its resultant effect on complex permittivity and normalized radar cross-section. Marine Pollution Bulletin, 2019, 142, 484-493.	5.0	3
157	C-band Backscatter of Oil-polluted New Sea Ice in a Mesocosm. , 2021, , .		3
158	Methods for Interpreting the Partitioning and Fate of Petroleum Hydrocarbons in a Sea Ice Environment. Journal of Physical Chemistry A, 2022, 126, 772-786.	2.5	3
159	Relationships between albedo and microwave emissions over thin newly formed sea ice during fall freeze-up. Geophysical Research Letters, 2006, 33, .	4.0	2
160	Microwave Emission and Scattering from Ocean Surface Waves in the Southern Beaufort Sea. International Journal of Oceanography, 2014, 2014, 1-12.	0.2	2
161	Balanced inversion of radar cross section data for snow-covered sea ice dielectric profile reconstruction. , 2014, , .		2
162	Microwave remote sensing of multi-layered rough-surface snow-covered sea ice dielectric profile: Sensitivity analysis and inversion. , 2014, , .		2

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163	Sub-pixel evaluation of sea ice roughness using AMSR-E data. International Journal of Remote Sensing, 2015, 36, 749-763.	2.9	2
164	Measuring Climatic State Variables from SAR Images of Sea Ice: The SIMS SAR Validation Site in Lancaster Sound. Arctic, 1991, 44, .	0.4	2
165	Passive microwave signatures of autumnal sea ice types from ship-based observation. , 2007, , .		1
166	Wind speed and sea ice motion retrieval in the marginal ice zone from RADARSAT-2 HH-HV images. , 2013, , .		1
167	First-year snow-covered sea ice polarimetric NRCS inversion in Cambridge Bay, Nunavut. , 2015, , .		1
168	Normalized radar cross section analysis of oil-contaminated young Sea ice. , 2016, , .		1
169	Young sea ice electric properties estimation under non-optimal conditions. , 2017, , .		1
170	An experimental study of microwave remote sensing of oil-contaminated young sea ice. , 2017, , .		1
171	In Situ Passive Microwave and UAV Observations of Early Summer Sea Ice. , 2018, , .		1
172	Atmospherically forced sea-level variability in western Hudson Bay, Canada. Ocean Science, 2021, 17, 1367-1384.	3.4	1
173	Higher-order statistical moments to analyse Arctic sea-ice drift patterns. Annals of Glaciology, 2020, 61, 464-471.	1.4	1
174	STSE SAR Ice Constellation - a backscatter simulation tool for evaluating constellations of satellites involving Sentinel-1 for ice charting. , 2012, , .		0
175	Numerical rough surface scattering simulations using the FVTD method. , 2012, , .		0
176	Polarimetric scatterometer measurements at the Sea-ice Environmental Research Facility. , 2013, , .		0
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