

David G Barber

List of Publications by Year in descending order

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184
papers

4,656
citations

109321

35
h-index

138484

58
g-index

188
all docs

188
docs citations

188
times ranked

4085
citing authors

#	ARTICLE	IF	CITATIONS
1	Year-Round Dive Characteristics of Male Beluga Whales From the Eastern Beaufort Sea Population Indicate Seasonal Shifts in Foraging Strategies. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	13
2	Detection and tracking of belugas, kayaks and motorized boats in drone video using deep learning. <i>Journal of Unmanned Vehicle Systems</i> , 2022, 10, 77-96.	1.2	6
3	Methods for Interpreting the Partitioning and Fate of Petroleum Hydrocarbons in a Sea Ice Environment. <i>Journal of Physical Chemistry A</i> , 2022, 126, 772-786.	2.5	3
4	Increasing Multiyear Sea Ice Loss in the Beaufort Sea: A New Export Pathway for the Diminishing Multiyear Ice Cover of the Arctic Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
5	Landfast sea ice in Hudson Bay and James Bay. <i>Elementa</i> , 2022, 10, .	3.2	6
6	Photooxidation and biodegradation potential of a light crude oil in first-year sea ice. <i>Marine Pollution Bulletin</i> , 2021, 165, 112154.	5.0	10
7	A framework for coupling thermodynamic and backscatter models toward the estimation of Arctic sea ice, snow on sea ice, and snow brine volume. , 2021, , .		0
8	C-band Backscatter of Oil-polluted New Sea Ice in a Mesocosm. , 2021, , .		3
9	Hudson Strait Inflow: Structure and Variability. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017089.	2.6	8
10	Storm-driven hydrography of western Hudson Bay. <i>Continental Shelf Research</i> , 2021, 227, 104525.	1.8	4
11	The ice factory of Hudson Bay. <i>Elementa</i> , 2021, 9, .	3.2	8
12	Atmospherically forced sea-level variability in western Hudson Bay, Canada. <i>Ocean Science</i> , 2021, 17, 1367-1384.	3.4	1
13	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. <i>Marine Pollution Bulletin</i> , 2021, 173, 112996.	5.0	5
14	Coastal Polynya Disrupts the Acoustic Backscatter Diurnal Signal Over the Eastern Laptev Sea Shelf. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	0
15	Effect of dissolution, evaporation, and photooxidation on crude oil chemical composition, dielectric properties and its radar signature in the Arctic environment.. <i>Marine Pollution Bulletin</i> , 2020, 151, 110629.	5.0	17
16	Impact of tidal dynamics on diel vertical migration of zooplankton in Hudson Bay. <i>Ocean Science</i> , 2020, 16, 337-353.	3.4	11
17	Atmospheric vorticity sets the basin-scale circulation in Hudson Bay. <i>Elementa</i> , 2020, 8, .	3.2	7
18	Multi-scale observations of the co-evolution of sea ice thermophysical properties and microwave brightness temperatures during the summer melt period in Hudson Bay. <i>Elementa</i> , 2020, 8, .	3.2	5

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19	Higher-order statistical moments to analyse Arctic sea-ice drift patterns. <i>Annals of Glaciology</i> , 2020, 61, 464-471.	1.4	1
20	Sea-ice and water dynamics and moonlight impact the acoustic backscatter diurnal signal over the eastern Beaufort Sea continental slope. <i>Ocean Science</i> , 2020, 16, 1261-1283.	3.4	5
21	Comparison of Ascet Estimated Snow Thickness on First-Year Sea Ice in the Canadian Arctic with Modeled and Passive Microwave Data. , 2020, , .		0
22	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
23	Modelling Sea Surface Temperature (SST) in the Hudson Bay Complex Using Bulk Heat Flux Parameterization: Sensitivity to Atmospheric Forcing, and Model Resolution. <i>Atmosphere - Ocean</i> , 2019, 57, 120-133.	1.6	5
24	The Influence of Surface Sediment Presence on Observed Passive Microwave Brightness Temperatures of First-Year Sea Ice during the Summer Melt Period. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 333-349.	2.4	5
25	Sensitivity of freshwater dynamics to ocean model resolution and river discharge forcing in the Hudson Bay Complex. <i>Journal of Marine Systems</i> , 2019, 196, 48-64.	2.1	23
26	Essential gaps and uncertainties in the understanding of the roles and functions of Arctic sea ice. <i>Environmental Research Letters</i> , 2019, 14, 043002.	5.2	24
27	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. <i>Marine Pollution Bulletin</i> , 2019, 142, 484-493.	5.0	3
28	Revisiting the Circulation of Hudson Bay: Evidence for a Seasonal Pattern. <i>Geophysical Research Letters</i> , 2019, 46, 3891-3899.	4.0	24
29	Oil behavior in sea ice: Changes in chemical composition and resultant effect on sea ice dielectrics. <i>Marine Pollution Bulletin</i> , 2019, 142, 216-233.	5.0	16
30	Variability of the Pacificâ€Derived Arctic Water Over the Southeastern Wandel Sea Shelf (Northeast) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	2.6	9
31	Enhanced bottom-ice algal biomass across a tidal strait in the Kitikmeot Sea of the Canadian Arctic. <i>Elementa</i> , 2019, 7, .	3.2	23
32	Record low sea-ice concentration in the central Arctic during summer 2010. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 106-115.	4.3	19
33	Assessment and improvement of the sea ice processing for dissolved inorganic carbon analysis. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 83-91.	2.0	8
34	Projecting present and future habitat suitability of ship-mediated aquatic invasive species in the Canadian Arctic. <i>Biological Invasions</i> , 2018, 20, 501-517.	2.4	66
35	Examining the Impact of a Crude Oil Spill on the Permittivity Profile and Normalized Radar Cross Section of Young Sea Ice. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 921-936.	6.3	14
36	Pan-arctic winter drift speeds and changing patterns of sea ice motion: 1979â€2015. <i>Polar Record</i> , 2018, 54, 303-311.	0.8	8

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37	Analysis of Scattering on Arctic Sea Ice in C-Band with Layered Medium Formulation of Surface Volume Surface Electric Field Integral Equation. , 2018, , .		0
38	In Situ Passive Microwave and UAV Observations of Early Summer Sea Ice. , 2018, , .		1
39	Remote Sensing of Oil Spills in Freezing Environments at the University of Manitoba Sea-ice Environmental Research Facility. , 2018, , .		0
40	Baffin Bay narwhal (<i>Monodon monoceros</i>) select bathymetry over sea ice during winter. <i>Polar Biology</i> , 2018, 41, 2053-2063.	1.2	11
41	A Controlled Experiment on Oil Release Beneath Thin Sea Ice and Its Electromagnetic Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 4406-4419.	6.3	18
42	Investigations into Frost Flower Physical Characteristics and the C-Band Scattering Response. <i>Remote Sensing</i> , 2018, 10, 991.	4.0	7
43	Tidally-generated internal waves in Southeast Hudson Bay. <i>Continental Shelf Research</i> , 2018, 167, 65-76.	1.8	9
44	Climate change and sea ice: Shipping in Hudson Bay, Hudson Strait, and Foxe Basin (1980â€“2016). <i>Elementa</i> , 2018, 6, .	3.2	29
45	Wind-forced depth-dependent currents over the eastern Beaufort Sea continental slope: Implications for Pacific water transport. <i>Elementa</i> , 2018, 6, .	3.2	8
46	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
47	An Electromagnetic Detection Case Study on Crude Oil Injection in a Young Sea Ice Environment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4465-4475.	6.3	17
48	Sea ice thickness in the Eastern Canadian Arctic: Hudson Bay Complex & Baffin Bay. <i>Remote Sensing of Environment</i> , 2017, 200, 281-294.	11.0	45
49	Sea ice breakup and marine melt of a retreating tidewater outlet glacier in northeast Greenland (81Â°N). <i>Scientific Reports</i> , 2017, 7, 4941.	3.3	27
50	Young sea ice electric properties estimation under non-optimal conditions. , 2017, , .		1
51	Evaluating Scattering Contributions to C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice at the Winterâ€“Spring Transition Through Measurement and Modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5702-5718.	6.3	8
52	An experimental study of microwave remote sensing of oil-contaminated young sea ice. , 2017, , .		1
53	Climate change and sea ice: Shipping accessibility on the marine transportation corridor through Hudson Bay and Hudson Strait (1980â€“2014). <i>Elementa</i> , 2017, 5, .	3.2	15
54	Quantifying C-band scattering mechanisms from snow-covered first-year sea ice at the winter-spring transition. , 2017, , .		0

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55	Method to characterize directional changes in Arctic sea ice drift and associated deformation due to synoptic atmospheric variations using Lagrangian dispersion statistics. <i>Cryosphere</i> , 2017, 11, 1707-1731.	3.9	5
56	Arctic Ocean outflow and glacier-ocean interactions modify water over the Wandel Sea shelf (northeastern Greenland). <i>Ocean Science</i> , 2017, 13, 1045-1060.	3.4	14
57	Storm-induced water dynamics and thermohaline structure at the tidewater Flade Isblink Glacier outlet to the Wandel Sea (NE Greenland). <i>Ocean Science</i> , 2017, 13, 947-959.	3.4	12
58	The influence of winter and summer atmospheric circulation on the variability of temperature and sea ice around Greenland. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2016, 68, 31971.	1.7	8
59	Importance of combined winter and summer Arctic Oscillation (AO) on September sea ice extent. <i>Environmental Research Letters</i> , 2016, 11, 034019.	5.2	32
60	Shelfbreak current over the Canadian Beaufort Sea continental slope: Wind-driven events in January 2005. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2447-2468.	2.6	21
61	Wintertime water dynamics and moonlight disruption of the acoustic backscatter diurnal signal in an ice-covered Northeast Greenland fjord. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4804-4818.	2.6	9
62	Normalized radar cross section analysis of oil-contaminated young Sea ice. , 2016, , .		1
63	Electromagnetic inversion for biomedical imaging, antenna characterization, and sea ice remote sensing applications. , 2016, , .		5
64	Lagrangian analysis of sea-ice dynamics in the Arctic Ocean. <i>Polar Research</i> , 2016, 35, 30778.	1.6	5
65	The relationship between summer sea ice extent in Hudson Bay and the Arctic Ocean via the atmospheric circulation. <i>Atmospheric Science Letters</i> , 2016, 17, 603-609.	1.9	3
66	Upwelling of Atlantic Water along the Canadian Beaufort Sea Continental Slope: Favorable Atmospheric Conditions and Seasonal and Interannual Variations. <i>Journal of Climate</i> , 2016, 29, 4509-4523.	3.2	16
67	Open-Ended Coaxial Probe Technique for Dielectric Spectroscopy of Artificially Grown Sea Ice. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 4941-4951.	6.3	40
68	Retrieval of Young Snow-Covered Sea-Ice Temperature and Salinity Evolution Through Radar Cross-Section Inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 326-338.	3.8	7
69	Spring conditions and habitat use of beluga whales (<i>Delphinapterus leucas</i>) during arrival to the Mackenzie River Estuary. <i>Polar Biology</i> , 2016, 39, 2319-2334.	1.2	21
70	Landfast First-Year Snow-Covered Sea Ice Reconstruction via Electromagnetic Inversion. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 2414-2428.	4.9	10
71	Selected physical, biological and biogeochemical implications of a rapidly changing Arctic Marginal Ice Zone. <i>Progress in Oceanography</i> , 2015, 139, 122-150.	3.2	140
72	Albedo feedback enhanced by smoother Arctic sea ice. <i>Geophysical Research Letters</i> , 2015, 42, 10,714.	4.0	29

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73	Synoptic Climatology of the Southern Beaufort Sea Troposphere with Comparisons to Surface Winds. <i>Atmosphere - Ocean</i> , 2015, 53, 264-281.	1.6	6
74	The effect of ocean heat flux on seasonal ice growth in Young Sound (Northeast Greenland). <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4803-4824.	2.6	12
75	Arctic Ocean outflow shelves in the changing Arctic: A review and perspectives. <i>Progress in Oceanography</i> , 2015, 139, 66-88.	3.2	65
76	Atlantic water flow into the Arctic Ocean through the St. Anna Trough in the northern Kara Sea. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5158-5178.	2.6	42
77	Formation of winter water on the Canadian Beaufort shelf: New insight from observations during 2009-2011. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4090-4107.	2.6	16
78	Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 4063-4078.	6.3	20
79	First-year snow-covered sea ice polarimetric NRCS inversion in Cambridge Bay, Nunavut. , 2015, , .		1
80	Summer-to-Winter Sea-Ice Linkage between the Arctic Ocean and the Okhotsk Sea through Atmospheric Circulation. <i>Journal of Climate</i> , 2015, 28, 4971-4979.	3.2	8
81	Balanced inversion of simulated bistatic radar cross-section data for remote sensing of snow-covered sea ice. <i>Remote Sensing Letters</i> , 2015, 6, 399-408.	1.4	0
82	An analytical validation for the attenuation of lateral propagating light in sea ice. <i>Acta Oceanologica Sinica</i> , 2015, 34, 1-8.	1.0	0
83	Inversion-Based Sensitivity Analysis of Snow-Covered Sea Ice Electromagnetic Profiles. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 3643-3655.	4.9	8
84	Sub-pixel evaluation of sea ice roughness using AMSR-E data. <i>International Journal of Remote Sensing</i> , 2015, 36, 749-763.	2.9	2
85	Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 4887-4898.	6.3	19
86	The delivery of organic contaminants to the Arctic food web: Why sea ice matters. <i>Science of the Total Environment</i> , 2015, 506-507, 444-452.	8.0	31
87	Polynya impacts on water properties in a Northeast Greenland fjord. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 153, 10-17.	2.1	24
88	Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1271-1286.	6.3	32
89	Nonlinear Inversion of Microwave Scattering Data for Snow-Covered Sea-Ice Dielectric Profile Reconstruction. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 209-213.	3.1	10
90	Micrometeorological and Thermal Control of Frost Flower Growth and Decay on Young Sea Ice. <i>Arctic</i> , 2015, 68, 79.	0.4	11

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91	Implications of fractured Arctic perennial ice cover on thermodynamic and dynamic sea ice processes. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2327-2343.	2.6	29
92	Surface and melt pond evolution on landfast first-year sea ice in the Canadian Arctic Archipelago. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3054-3075.	2.6	53
93	Microwave Emission and Scattering from Ocean Surface Waves in the Southern Beaufort Sea. <i>International Journal of Oceanography</i> , 2014, 2014, 1-12.	0.2	2
94	ELECTROMAGNETIC WAVE SCATTERING FROM ROUGH BOUNDARIES INTERFACING INHOMOGENEOUS MEDIA AND APPLICATION TO SNOW-COVERED SEA ICE. <i>Progress in Electromagnetics Research</i> , 2014, 144, 201-219.	4.4	16
95	Balanced inversion of radar cross section data for snow-covered sea ice dielectric profile reconstruction. , 2014, , .		2
96	Microwave remote sensing of multi-layered rough-surface snow-covered sea ice dielectric profile: Sensitivity analysis and inversion. , 2014, , .		2
97	Ocean Surface Wind Speed Retrieval From C-Band SAR Images Without Wind Direction Input. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 980-990.	6.3	42
98	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.	1.8	31
99	Sea Ice Motion Tracking From Sequential Dual-Polarization RADARSAT-2 Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 121-136.	6.3	97
100	An Update on the Ice Climatology of the Hudson Bay System. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 66-83.	1.1	73
101	A Study on the C-Band Polarimetric Scattering and Physical Characteristics of Frost Flowers on Experimental Sea Ice. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1787-1798.	6.3	31
102	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
103	Remote Estimates of Ice Algae Biomass and Their Response to Environmental Conditions during Spring Melt. <i>Arctic</i> , 2014, 67, 375.	0.4	29
104	A Validation of CloudSat and CALIPSO's Temperature, Humidity, Cloud Detection, and Cloud Base Height over the Arctic Marine Cryosphere. <i>Atmosphere - Ocean</i> , 2013, 51, 249-264.	1.6	7
105	Polarimetric scatterometer measurements at the Sea-ice Environmental Research Facility. , 2013, , .		0
106	When will $\hat{\pm}$ -HCH disappear from the western Arctic Ocean?. <i>Journal of Marine Systems</i> , 2013, 127, 88-100.	2.1	22
107	Change at the margin of the North Water Polynya, Baffin Bay, inferred from organic matter records in dated sediment cores. <i>Marine Geology</i> , 2013, 341, 1-13.	2.1	11
108	On the classification of melt season first-year and multi-year sea ice in the Beaufort Sea using Radarsat-2 data. <i>International Journal of Remote Sensing</i> , 2013, 34, 3760-3774.	2.9	10

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109	C-Band Polarimetric Coherences and Ratios for Discriminating Sea Ice Roughness. International Journal of Oceanography, 2013, 2013, 1-13.	0.2	10
110	Wind speed and sea ice motion retrieval in the marginal ice zone from RADARSAT-2 HH-HV images. , 2013, , .		1
111	Multiyear sea ice export through the Bering Strait during winter 2011-2012. Journal of Geophysical Research: Oceans, 2013, 118, 5489-5503.	2.6	23
112	STSE SAR Ice Constellation - a backscatter simulation tool for evaluating constellations of satellites involving Sentinel-1 for ice charting. , 2012, , .		0
113	Detection of sea ice motion from co- and cross-polarization RADARSAT-2 images. , 2012, , .		6
114	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
115	<i>Î±</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
116	An observational study of ice effects on Nelson River estuarine variability, Hudson Bay, Canada. Continental Shelf Research, 2012, 47, 68-77.	1.8	7
117	Numerical rough surface scattering simulations using the FVTD method. , 2012, , .		0
118	Change and variability in sea ice during the 2007â€”2008 Canadian International Polar Year program. Climatic Change, 2012, 115, 115-133.	3.6	21
119	Consequences of change and variability in sea ice on marine ecosystem and biogeochemical processes during the 2007â€”2008 Canadian International Polar Year program. Climatic Change, 2012, 115, 135-159.	3.6	24
120	Hydrological forcing of a recent trophic surge in Lake Winnipeg. Journal of Great Lakes Research, 2012, 38, 95-105.	1.9	86
121	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
122	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
123	Fracture of summer perennial sea ice by ocean swell as a result of Arctic storms. Journal of Geophysical Research, 2012, 117, .	3.3	90
124	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
125	Landfast Sea Ice Conditions in the Canadian Arctic: 1983 â€” 2009. Arctic, 2012, 65, .	0.4	43
126	Mercury Distribution and Transport Across the Oceanâ€”Sea-Iceâ€”Atmosphere Interface in the Arctic Ocean. Environmental Science & Technology, 2011, 45, 1866-1872.	10.0	52

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127	Impact of horizontal spreading on light propagation in melt pond covered seasonal sea ice in the Canadian Arctic. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	75
128	Beluga (<i>Delphinapterus leucas</i>) habitat selection in the eastern Beaufort Sea in spring, 1975–1979. <i>Polar Biology</i> , 2011, 34, 1973-1988.	1.2	21
129	Zooplankton boom and ice amphipod bust below melting sea ice in the Amundsen Gulf, Arctic Canada. <i>Polar Biology</i> , 2011, 34, 1947-1958.	1.2	28
130	Characteristics of two distinct high-light acclimated algal communities during advanced stages of sea ice melt. <i>Polar Biology</i> , 2011, 34, 1869-1886.	1.2	101
131	Spatial and temporal variation of photosynthetic parameters in natural phytoplankton assemblages in the Beaufort Sea, Canadian Arctic. <i>Polar Biology</i> , 2011, 34, 1915-1928.	1.2	41
132	Numerical scattering from 3D randomly rough surfaces using FVTD. , 2011, , .		3
133	Dual-Polarization C-Band Radar Observations of Sea Ice in the Amundsen Gulf. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 2685-2691.	6.3	29
134	C-Band Polarimetric Backscattering Signatures of Newly Formed Sea Ice During Fall Freeze-Up. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 3256-3267.	6.3	49
135	Physical, dielectric, and C band microwave scattering properties of first-year sea ice during advanced melt. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
136	Storm Studies in the Arctic (STAR). <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 47-68.	3.3	21
137	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. <i>Continental Shelf Research</i> , 2009, 29, 2157-2165.	1.8	66
138	Contribution of under-ice primary production to an ice-edge upwelling phytoplankton bloom in the Canadian Beaufort Sea. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	209
139	Perennial pack ice in the southern Beaufort Sea was not as it appeared in the summer of 2009. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	66
140	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
141	Atmospheric forcing of the Beaufort Sea ice gyre: Surface pressure climatology and sea ice motion. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
142	Preface to special section on Beaufort Gyre Climate System Exploration Studies: Documenting key parameters to understand environmental variability. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
143	The annual cycle of particulate organic carbon export in Franklin Bay (Canadian Arctic): Environmental control and food web implications. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
144	Sea ice and the onshore–offshore gradient in pre-winter zooplankton assemblages in southeastern Beaufort Sea. <i>Journal of Marine Systems</i> , 2008, 74, 994-1011.	2.1	82

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145	Impact of ice temperature on microwave emissivity of thin newly formed sea ice. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
146	Bio-optical and structural properties inferred from irradiance measurements within the bottommost layers in an Arctic landfast sea ice cover. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	29
147	Vertical stability and the annual dynamics of nutrients and chlorophyll fluorescence in the coastal, southeast Beaufort Sea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	205
148	On the Impact of Ice Emissivity on Sea Ice Temperature Retrieval Using Passive Microwave Radiance Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 448-452.	3.1	12
149	Passive microwave signatures of autumnal sea ice types from ship-based observation. , 2007, , .		1
150	Time Series of Daily Averaged Cloud Fractions over Landfast First-Year Sea Ice from Multiple Data Sources. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 1818-1827.	1.5	5
151	Passive microwave remote sensing of seasonal snow-covered sea ice. <i>Progress in Physical Geography</i> , 2007, 31, 539-573.	3.2	19
152	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
153	The Vertical Distribution of Runoff and its Suspended Load in Lake Malawi. <i>Journal of Great Lakes Research</i> , 2007, 33, 449-465.	1.9	12
154	The Effect of Suspended Solids Loading from the Linthipe River on Light in Lake Malawi. <i>Journal of Great Lakes Research</i> , 2007, 33, 466-482.	1.9	5
155	Investigations of newly formed sea ice in the Cape Bathurst polynya: 1. Structural, physical, and optical properties. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	29
156	Investigations of newly formed sea ice in the Cape Bathurst polynya: 2. Microwave emission. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	38
157	On the winter evolution of snow thermophysical properties over land-fast first-year sea ice. <i>Hydrological Processes</i> , 2007, 21, 705-716.	2.6	29
158	Observations of Snow Water Equivalent Change on Landfast First-Year Sea Ice in Winter Using Synthetic Aperture Radar Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1005-1015.	6.3	28
159	On detection of the thermophysical state of landfast first-year sea ice using in-situ microwave emission during spring melt. <i>Remote Sensing of Environment</i> , 2007, 111, 148-159.	11.0	7
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