

Arctic sea ice decline: Faster than forecast

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Biodiversity, Global Warming, and the United States Endangered Species Act: The Role of Domestic Wildlife Law in Addressing Greenhouse Gas Emissions. , 2009, , 145-172.		3
2	Sea ice change in Arctic Canada: are there limits to Inuit adaptation?. , 2001, , 114-128.		2
3	Passive microwave remote sensing of seasonal snow-covered sea ice. Progress in Physical Geography, 2007, 31, 539-573.	3.2	19
4	Toward Prediction of Environmental Arctic Change. Computing in Science and Engineering, 2007, 9, 29-34.	1.2	11
5	Future regional Arctic sea ice declines. Geophysical Research Letters, 2007, 34, .	4.0	108
6	Recent extreme near-surface permafrost temperatures on Svalbard in relation to future climate scenarios. Geophysical Research Letters, 2007, 34, .	4.0	71
7	Rapid reduction of Arctic perennial sea ice. Geophysical Research Letters, 2007, 34, .	4.0	349
8	Increasing solar heating of the Arctic Ocean and adjacent seas, 1979â€“2005: Attribution and role in the iceâ€“albedo feedback. Geophysical Research Letters, 2007, 34, .	4.0	377
9	A younger, thinner Arctic ice cover: Increased potential for rapid, extensive seaâ€“ice loss. Geophysical Research Letters, 2007, 34, .	4.0	593
10	Information on the early Holocene climate constrains the summer sea ice projections for the 21st century. Climate of the Past, 2007, 3, 683-692.	3.4	35
11	Toward understanding the human dimensions of the rapidly changing arctic system: insights and approaches from five HARC projects. Regional Environmental Change, 2007, 7, 173-186.	2.9	35
12	Effects of sea ice extent and food availability on spatial and temporal distribution of polar bears during the fall open-water period in the Southern Beaufort Sea. Polar Biology, 2008, 31, 999-1010.	1.2	121
13	Sea-level rise and coastal vulnerability: an assessment of Andhra Pradesh coast, India through remote sensing and GIS. Journal of Coastal Conservation, 2008, 12, 195-207.	1.6	179
14	High Latitude Changes in Ice Dynamics and Their Impact on Polar Marine Ecosystems. Annals of the New York Academy of Sciences, 2008, 1134, 267-319.	3.8	177
15	A numerical study of ice-drift divergence by cyclonic wind with a Lagrangian ice model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 789-802.	1.7	6
16	Counterintuitive carbon-to-nutrient coupling in an Arctic pelagic ecosystem. Nature, 2008, 455, 387-390.	27.8	172
17	Attribution of polar warming to humanâ€“influence. Nature Geoscience, 2008, 1, 750-754.	12.9	222
18	Current Practices and Future Opportunities for Policy on Climate Change and Invasive Species. Conservation Biology, 2008, 22, 585-592.	4.7	116

#	ARTICLE	IF	CITATIONS
19	Predicting habitat use by ringed seals (<i>Phoca hispida</i>) in a warming Arctic. <i>Ecological Modelling</i> , 2008, 217, 19-32.	2.5	23
20	Changes in the Antarctic sea ice ecosystem: potential effects on krill and baleen whales. <i>Marine and Freshwater Research</i> , 2008, 59, 361.	1.3	84
21	Mechanisms of abrupt climate change of the last glacial period. <i>Reviews of Geophysics</i> , 2008, 46, .	23.0	288
22	Evolution of Arctic sea ice concentration trends and the role of atmospheric circulation forcing, 1979â€“2007. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	164
23	Reply to comment by E. T. DeWeaver et al. on â€œOn the reliability of simulated Arctic sea ice in global climate modelsâ€•. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	6
24	Decrease of sea ice thickness at Hopen, Barents Sea, during 1966â€“2007. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	26
25	Introduction to special section on Largeâ€“Scale Characteristics of the Sea Ice Cover from AMSRâ€“E and Other Satellite Sensors. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
26	Estimating sea ice area flux across the Canadian Arctic Archipelago using enhanced AMSRâ€“E. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
27	Response of the Denmark Strait overflow to Nordic Seas heat loss. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
28	Assessment of surface air temperature over the Arctic Ocean in reanalysis and IPCC AR4 model simulations with IABP/POLES observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
29	Evaluation of ERAâ€“40, NCEPâ€“1, and NCEPâ€“2 reanalysis air temperatures with groundâ€“based measurements in China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
30	Arctic Sea Ice Extent Plumets in 2007. <i>Eos</i> , 2008, 89, 13-14.	0.1	409
31	Toward Reducing Uncertainties in Arctic Climate Simulations. <i>Eos</i> , 2008, 89, 150-152.	0.1	4
32	Tipping elements in the Earth's climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1786-1793.	7.1	2,599
33	The derivation of an Arctic sea ice normal through temporal mixture analysis of satellite imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 92-108.	2.8	8
34	Carbon flux and ecosystem feedback in the northern Barents Sea in an era of climate change: An introduction. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2143-2153.	1.4	56
35	Light absorbing carbon emissions from commercial shipping. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	71
36	Circumpolar thinning of Arctic sea ice following the 2007 record ice extent minimum. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	210

#	ARTICLE	IF	CITATIONS
37	Changing sea ice melt parameters in the Canadian Arctic Archipelago: Implications for the future presence of multiyear ice. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
38	Regional climate responses to geoengineering with tropical and Arctic SO ₂ injections. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	339
39	Sea ice drift in the Arctic since the 1950s. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	88
40	Accelerated decline in the Arctic sea ice cover. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	1,368
41	Reduced ice thickness in Arctic Transpolar Drift favors rapid ice retreat. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	170
42	Human influence on Arctic sea ice detectable from early 1990s onwards. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	77
43	Clarifying Climate Confusion: Addressing Systemic Holes, Cognitive Gaps, and Misconceptions Through Climate Literacy. <i>Physical Geography</i> , 2008, 29, 512-528.	1.4	85
45	Southern Hemisphere Synoptic Behavior in Extreme Phases of SAM, ENSO, Sea Ice Extent, and Southern Australia Rainfall. <i>Journal of Climate</i> , 2008, 21, 5566-5584.	3.2	89
46	Global Warming and effects on the Arctic Fox. <i>Science Progress</i> , 2008, 91, 175-191.	1.9	44
47	Decreasing Arctic Sea Ice Mirrors Increasing CO ₂ on Decadal Time Scale. <i>Atmospheric and Oceanic Science Letters</i> , 2008, 1, 51-56.	1.3	44
49	Climate Modeling. <i>Annual Review of Environment and Resources</i> , 2008, 33, 1-17.	13.4	16
50	Arctic Climate Change as Manifest in Cyclone Behavior. <i>Journal of Climate</i> , 2008, 21, 5777-5796.	3.2	177
51	The Consequences of Not Knowing Low- and High-Latitude Climate Sensitivity. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 855-864.	3.3	27
52	The Coming Arctic Invasion. <i>Science</i> , 2008, 321, 780-781.	12.6	96
53	Polar bear <i>Ursus maritimus</i> conservation in Canada: an ecological basis for identifying designatable units. <i>Oryx</i> , 2008, 42, 504.	1.0	32
54	Chapter One Introduction to the Arctic: Significance and History. <i>Developments in Marine Geology</i> , 2008, , 3-34.	0.4	1
55	Chapter Two Modern Physiography, Hydrology, Climate, and Sediment Input. <i>Developments in Marine Geology</i> , 2008, , 35-84.	0.4	3
56	Arctic sea-ice variability revisited. <i>Annals of Glaciology</i> , 2008, 48, 71-81.	1.4	30

#	ARTICLE	IF	CITATIONS
57	Climate Variations from the Viewpoint of the Arctic. Journal of Geography (Chigaku Zasshi), 2008, 117, 1051-1062.	0.3	4
58	Effects of polynyas on the hatching season, early growth and survival of polar cod <i>Boreogadus saida</i> in the Laptev Sea. Marine Ecology - Progress Series, 2008, 355, 247-256.	1.9	57
59	Standing on the brink. Nature Climate Change, 2008, 1, 142-143.	18.8	3
60	Supplement to The Consequences of not Knowing Low- High-Latitude Climate Sensitivity. Bulletin of the American Meteorological Society, 2008, 89, ES24-ES35.	3.3	0
61	Observations of turbulence beneath sea ice in southern McMurdo Sound, Antarctica. Ocean Science, 2009, 5, 435-445.	3.4	25
63	Sources of Holocene variability of oxygen isotopes in paleoclimate archives. Climate of the Past, 2009, 5, 441-455.	3.4	214
64	The emergence of surface-based Arctic amplification. Cryosphere, 2009, 3, 11-19.	3.9	923
65	The Arctic Ocean marine carbon cycle: evaluation of air-sea CO ₂ exchanges, ocean acidification impacts and potential feedbacks. Biogeosciences, 2009, 6, 2433-2459.	3.3	294
66	Bowhead whale (<i>Balaena mysticetus</i>) songs in the Chukchi Sea between October 2007 and May 2008. Journal of the Acoustical Society of America, 2009, 126, 3319-3328.	1.1	38
67	Repeated short-term bioproductivity changes in a coastal lake on Store Koldewey, northeast Greenland: an indicator of varying sea-ice coverage?. Holocene, 2009, 19, 653-663.	1.7	16
68	Elevated CO ₂ stimulates marsh elevation gain, counterbalancing sea-level rise. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6182-6186.	7.1	251
69	Climate Change in the U.S. Atlantic Affecting Recreational Fisheries. Reviews in Fisheries Science, 2009, 17, 267-289.	2.1	16
70	Dangerous climate change and the importance of adaptation for the Arctic's Inuit population. Environmental Research Letters, 2009, 4, 024006.	5.2	65
71	Diagnosis of the record discharge of Arctic-draining Eurasian rivers in 2007. Environmental Research Letters, 2009, 4, 045011.	5.2	35
72	Can a Convective Cloud Feedback Help to Eliminate Winter Sea Ice at High CO ₂ Concentrations?. Journal of Climate, 2009, 22, 5719-5731.	3.2	35
73	Current GCMs' Unrealistic Negative Feedback in the Arctic. Journal of Climate, 2009, 22, 4682-4695.	3.2	96
74	Predicting 21st-century polar bear habitat distribution from global climate models. Ecological Monographs, 2009, 79, 25-58.	5.4	299
75	Primary productivity and export fluxes on the Canadian shelf of the Beaufort Sea: A modelling study. Journal of Marine Systems, 2009, 75, 17-32.	2.1	64

#	ARTICLE	IF	CITATIONS
76	A New Generation of Satellite Snow Observations for Large Scale Earth System Studies. Geography Compass, 2009, 3, 879-902.	2.7	4
77	Interannual variations in the opening date of the Prudhoe Bay shipping season: links to atmospheric and surface conditions. International Journal of Climatology, 2009, 29, 197-203.	3.5	4
78	Sensitivity of sea ice to wind-stress and radiative forcing since 1500: a model study of the Little Ice Age and beyond. Climate Dynamics, 2009, 32, 817-831.	3.8	16
79	Impact of a projected future Arctic Sea Ice reduction on extratropical storminess and the NAO. Climate Dynamics, 2009, 33, 937-943.	3.8	120
80	Addressing human security in the Arctic in the context of climate change through science and technology. Mitigation and Adaptation Strategies for Global Change, 2009, 14, 697-710.	2.1	9
81	The impact of sea level rise on developing countries: a comparative analysis. Climatic Change, 2009, 93, 379-388.	3.6	382
82	An updated assessment of the risks from climate change based on research published since the IPCC Fourth Assessment Report. Climatic Change, 2009, 97, 469-482.	3.6	122
83	The early bear gets the goose: climate change, polar bears and lesser snow geese in western Hudson Bay. Polar Biology, 2009, 32, 539-547.	1.2	57
84	September sea-ice cover in the Arctic Ocean projected to vanish by 2100. Nature Geoscience, 2009, 2, 341-343.	12.9	286
85	Insight despite imperfection. Nature Geoscience, 2009, 2, 315-316.	12.9	1
86	Changes in the climate and sea ice of the Northern Hemisphere in the 20th and 21st centuries from data of observations and modeling. Izvestiya - Atmospheric and Oceanic Physics, 2009, 45, 675-686.	0.9	24
87	Pacific walrus (<i>Odobenus rosmarus divergens</i>): Differential prey digestion and diet. Marine Mammal Science, 2009, 25, 761-777.	1.8	80
88	Foreword to the special issue: climate change impacts, adaptation and vulnerability in the Arctic. Polar Research, 2009, 28, 1-9.	1.6	55
89	Contrasting climate change in the two polar regions. Polar Research, 2009, 28, 146-164.	1.6	120
90	Container shipping on the Northern Sea Route. International Journal of Production Economics, 2009, 122, 107-117.	8.9	185
91	Sustainability: An integral engineering design approach. Renewable and Sustainable Energy Reviews, 2009, 13, 1133-1137.	16.4	20
92	Fusing AMSR-E and QuikSCAT Imagery for Improved Sea Ice Recognition. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1980-1989.	6.3	29
93	Sea-ice algae: Major contributors to primary production and algal biomass in the Chukchi and Beaufort Seas during May/June 2002. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1201-1212.	1.4	249

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94	Seasonal and spatial patterns of sedimentary denitrification rates in the Chukchi sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1339-1350.	1.4	80
95	Sea ice thickness measurements by ultrawideband penetrating radar: First results. Cold Regions Science and Technology, 2009, 55, 33-46.	3.5	28
96	The increase in the length of the ice-free season in the Arctic. Cold Regions Science and Technology, 2009, 59, 78-101.	3.5	33
97	Role of Arctic sea ice in global atmospheric circulation: A review. Global and Planetary Change, 2009, 68, 149-163.	3.5	223
98	Simulating the mass balance and salinity of Arctic and Antarctic sea ice. 1. Model description and validation. Ocean Modelling, 2009, 27, 33-53.	2.4	230
99	Latest Pleistocene and Holocene glaciation of Baffin Island, Arctic Canada: key patterns and chronologies. Quaternary Science Reviews, 2009, 28, 2075-2087.	3.0	55
100	Sea ice variations in the central Canadian Arctic Archipelago during the Holocene. Quaternary Science Reviews, 2009, 28, 1354-1366.	3.0	138
101	Aragonite Undersaturation in the Arctic Ocean: Effects of Ocean Acidification and Sea Ice Melt. Science, 2009, 326, 1098-1100.	12.6	290
102	Scientific advice on species at risk: a comparative analysis of status assessments of polar bear, <i>Ursus maritimus</i> . Environmental Reviews, 2009, 17, 45-51.	4.5	16
103	Loss of Sea Ice in the Arctic. Annual Review of Marine Science, 2009, 1, 417-441.	11.6	197
104	Winter Northern Hemisphere weather patterns remember summer Arctic sea ice extent. Geophysical Research Letters, 2009, 36, .	4.0	320
105	Extraordinary September Arctic sea ice reductions and their relationships with storm behavior over 1979-2008. Geophysical Research Letters, 2009, 36, .	4.0	189
106	Impact of a decreasing sea ice cover on the vertical export of particulate organic carbon in the northern Laptev Sea, Siberian Arctic Ocean. Geophysical Research Letters, 2009, 36, .	4.0	51
107	Impact of sudden Arctic sea ice loss on stratospheric polar ozone recovery. Geophysical Research Letters, 2009, 36, .	4.0	35
108	Simulation of melt pond evolution on level ice. Journal of Geophysical Research, 2009, 114, .	3.3	39
109	Impacts of reduced sea ice on winter Arctic atmospheric circulation, precipitation, and temperature. Journal of Geophysical Research, 2009, 114, .	3.3	74
111	Rebuttal of "Polar Bear Population Forecasts: A Public-Policy Forecasting Audit". Interfaces, 2009, 39, 353-369.	1.5	12
112	Sensitivity of the carbon cycle in the Arctic to climate change. Ecological Monographs, 2009, 79, 523-555.	5.4	814

#	ARTICLE	IF	CITATIONS
113	Smallest Algae Thrive As the Arctic Ocean Freshens. Science, 2009, 326, 539-539.	12.6	624
114	Transpolar observations of the morphological properties of Arctic sea ice. Journal of Geophysical Research, 2009, 114, .	3.3	95
115	Five years of Arctic sea ice freeboard measurements from the Ice, Cloud and land Elevation Satellite. Journal of Geophysical Research, 2009, 114, .	3.3	71
116	Beaufort Gyre freshwater reservoir: State and variability from observations. Journal of Geophysical Research, 2009, 114, .	3.3	364
117	Development and testing of Polar Weather Research and Forecasting model: 2. Arctic Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	125
118	A new sea ice albedo scheme including melt ponds for ECHAM5 general circulation model. Journal of Geophysical Research, 2009, 114, .	3.3	63
119	Improving simulated soil temperatures and soil freeze/thaw at high-latitude regions in the Simple Biosphere/Carnegie-Ames-Stanford Approach model. Journal of Geophysical Research, 2009, 114, .	3.3	59
120	An arctic hydrologic system in transition: Feedbacks and impacts on terrestrial, marine, and human life. Journal of Geophysical Research, 2009, 114, .	3.3	69
121	Glacial to postglacial transformation of organic input pathways in Arctic Ocean basins. Global Biogeochemical Cycles, 2009, 23, .	4.9	7
122	Tracking ancient sea ice. Nature Geoscience, 2009, 2, 743-744.	12.9	2
123	Adjoint analysis of the 2007 all time Arctic sea-ice minimum. Geophysical Research Letters, 2009, 36, .	4.0	96
124	Chapter 1 Impacts of the Oceans on Climate Change. Advances in Marine Biology, 2009, 56, 1-150.	1.4	110
125	Ocean acidification and biologically induced seasonality of carbonate mineral saturation states in the western Arctic Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	127
126	Positive trend in the mean speed and deformation rate of Arctic sea ice, 1979â€“2007. Journal of Geophysical Research, 2009, 114, .	3.3	273
127	Surface freshening of the Canada Basin, 2003â€“2007: River runoff versus sea ice meltwater. Journal of Geophysical Research, 2009, 114, .	3.3	174
128	Tracer-derived freshwater composition of the Siberian continental shelf and slope following the extreme Arctic summer of 2007. Geophysical Research Letters, 2009, 36, .	4.0	42
129	Increased variability of the Arctic summer ice extent in a warmer climate. Geophysical Research Letters, 2009, 36, .	4.0	80
130	A sea ice free summer Arctic within 30 years?. Geophysical Research Letters, 2009, 36, .	4.0	524

#	ARTICLE	IF	CITATIONS
131	Sea Ice in the Canadian Arctic Archipelago: Modeling the Past (1950â€“2004) and the Future (2041â€“60). Journal of Climate, 2009, 22, 2181-2198.	3.2	56
132	Arctic Cloud Fraction and Radiative Fluxes in Atmospheric Reanalyses. Journal of Climate, 2009, 22, 2316-2334.	3.2	113
133	Arctic sea ice and the potential for abrupt loss. Geophysical Monograph Series, 2010, , 181-191.	0.1	3
134	Plankton metabolism in the Greenland Sea during the polar summer of 2007. Polar Biology, 2010, 33, 1651-1660.	1.2	23
135	Two mechanisms of aquatic and terrestrial habitat change along an Alaskan Arctic coastline. Polar Biology, 2010, 33, 1629-1640.	1.2	42
136	The impact of ice melting on bacterioplankton in the Arctic Ocean. Polar Biology, 2010, 33, 1683-1694.	1.2	85
137	Primary production and climatic variability in the European sector of the Arctic Ocean prior to 2007: preliminary results. Polar Biology, 2010, 33, 1641-1650.	1.2	90
138	The sea ice mass budget of the Arctic and its future change as simulated by coupled climate models. Climate Dynamics, 2010, 34, 185-200.	3.8	136
139	Modeled winter sea ice variability and the North Atlantic Oscillation: a multi-century perspective. Climate Dynamics, 2010, 34, 515-525.	3.8	15
140	Unprecedented low twentieth century winter sea ice extent in the Western Nordic Seas since A.D. 1200. Climate Dynamics, 2010, 34, 781-795.	3.8	67
141	Quaternary oceans and climate change: lessons for the future?. International Journal of Earth Sciences, 2010, 99, 171-189.	1.8	7
142	Perspectives of Northern Sea Route and Northwest Passage in the twenty-first century. Climatic Change, 2010, 100, 757-768.	3.6	142
143	Sources of spread in simulations of Arctic sea ice loss over the twenty-first century. Climatic Change, 2010, 99, 637-645.	3.6	19
144	The ICESat-2 Laser Altimetry Mission. Proceedings of the IEEE, 2010, 98, 735-751.	21.3	327
145	Sedimentation and particle dynamics in the seasonal ice zone of the Barents Sea. Journal of Marine Systems, 2010, 79, 185-198.	2.1	32
146	Biological pump processes in the cryopelagic and hemipelagic Arctic Ocean: Canada Basin and Chukchi Rise. Progress in Oceanography, 2010, 85, 137-170.	3.2	92
147	Effects of the North Atlantic Oscillation on sea ice breeding habitats of harp seals (Pagophilus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 102	3.2	19
148	Environmental energetics of an exceptional highâ€atitude storm. Atmospheric Science Letters, 2010, 11, 39-45.	1.9	7

#	ARTICLE	IF	CITATIONS
149	Sea ice surface features in Arctic summer 2008: Aerial observations. Remote Sensing of Environment, 2010, 114, 693-699.	11.0	49
150	A comparison of optical-band based snow extent products during spring over North America. Remote Sensing of Environment, 2010, 114, 1940-1948.	11.0	34
151	Uptake of CO ₂ by the Arctic Ocean in a changing climate. Marine Chemistry, 2010, 122, 96-104.	2.3	40
152	The implications of Arctic sea ice decline on shipping. Marine Policy, 2010, 34, 713-715.	3.2	96
153	Detection and attribution of climate change: a regional perspective. Wiley Interdisciplinary Reviews: Climate Change, 2010, 1, 192-211.	8.1	259
154	Understanding Recent Climate Change. Conservation Biology, 2010, 24, 10-17.	4.7	31
155	Sensitivity of arctic summer sea ice coverage to global warming forcing: towards reducing uncertainty in arctic climate change projections. Tellus, Series A: Dynamic Meteorology and Oceanography, 2010, 62, 220-227.	1.7	36
156	Observational quantification of a total aerosol indirect effect in the Arctic. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 181.	1.6	15
157	An analysis of the carbon balance of the Arctic Basin from 1997 to 2006. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 455.	1.6	116
158	Timing of blooms, algal food quality and <i>Calanus glacialis</i> reproduction and growth in a changing Arctic. Global Change Biology, 2010, 16, 3154-3163.	9.5	292
159	The central role of diminishing sea ice in recent Arctic temperature amplification. Nature, 2010, 464, 1334-1337.	27.8	1,733
160	Greenhouse gas mitigation can reduce sea-ice loss and increase polar bear persistence. Nature, 2010, 468, 955-958.	27.8	151
161	Large-scale atmospheric circulation changes are associated with the recent loss of Arctic sea ice. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 1.	1.7	458
162	Arctic climate changes and possible conditions of Arctic navigation in the 21st century. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 14-20.	0.9	17
163	Fram Strait sea-ice sediment provinces based on silt and clay compositions identify Siberian Kara and Laptev seas as main source regions. Polar Research, 2010, 29, 265-282.	1.6	30
164	An Overview of Marine Biodiversity in United States Waters. PLoS ONE, 2010, 5, e11914.	2.5	115
165	Inuit vulnerability and adaptive capacity to climate change in Ulukhaktok, Northwest Territories, Canada. Polar Record, 2010, 46, 157-177.	0.8	109
166	Climate change threatens polar bear populations: a stochastic demographic analysis. Ecology, 2010, 91, 2883-2897.	3.2	203

#	ARTICLE	IF	CITATIONS
167	Cross-validation of polynya monitoring methods from multisensor satellite and airborne data: a case study for the Laptev Sea. Canadian Journal of Remote Sensing, 2010, 36, S196-S210.	2.4	37
168	The future of the oceans past. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3765-3778.	4.0	75
169	The ecosystem-service chain and the biological diversity crisis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 31-39.	4.0	59
170	Paleophysical Oceanography with an Emphasis on Transport Rates. Annual Review of Marine Science, 2010, 2, 1-34.	11.6	38
171	Estimation of sea ice thickness in the Arctic Sea using polarimetric parameters of C- and X-band space-borne SAR data. , 2010, , .		1
172	Another "Great Transformation"? Social and cultural consequences of climate change. Journal of Renewable and Sustainable Energy, 2010, 2, 031009.	2.0	9
173	The Seasonal Atmospheric Response to Projected Arctic Sea Ice Loss in the Late Twenty-First Century. Journal of Climate, 2010, 23, 333-351.	3.2	447
174	The Impact of North Atlantic "Arctic Multidecadal Variability on Northern Hemisphere Surface Air Temperature. Journal of Climate, 2010, 23, 5668-5677.	3.2	127
175	Internal Modes of Multidecadal Variability in the Arctic Ocean. Journal of Physical Oceanography, 2010, 40, 2496-2510.	1.7	9
176	Multimodel Combination by a Bayesian Hierarchical Model: Assessment of Ice Accumulation over the Oceanic Arctic Region. Journal of Climate, 2010, 23, 5421-5436.	3.2	3
177	Present-Day Arctic Sea Ice Variability in the Coupled ECHAM5/MPI-OM Model. Journal of Climate, 2010, 23, 2520-2543.	3.2	20
178	Long-Term Sea Surface Temperature Variability along the U.S. East Coast. Journal of Physical Oceanography, 2010, 40, 1004-1017.	1.7	113
179	Diagnosis of Extended Cold-Season Temperature Anomalies in Alaska. Monthly Weather Review, 2010, 138, 453-462.	1.4	17
180	Chapter 10 Climate change adaptation and coastal zone management. Community, Environment and Disaster Risk Management, 2010, , 217-242.	0.2	2
181	Arctic sea-ice change: a grand challenge of climate science. Journal of Glaciology, 2010, 56, 1115-1121.	2.2	76
182	Antarctic sea ice change and variability " Physical and ecological implications. Polar Science, 2010, 4, 149-186.	1.2	254
183	Increased greenhouse gases enhance regional climate response to a Maunder Minimum. Geophysical Research Letters, 2010, 37, .	4.0	11
184	Influence of winter and summer surface wind anomalies on summer Arctic sea ice extent. Geophysical Research Letters, 2010, 37, .	4.0	91

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185	Atmospheric forcing of sea ice in Hudson Bay during the fall period, 1980â€“2005. Journal of Geophysical Research, 2010, 115, .	3.3	66
186	Incorporation of a physically based melt pond scheme into the sea ice component of a climate model. Journal of Geophysical Research, 2010, 115, .	3.3	85
187	Thickness and surface-properties of different sea-ice regimes within the Arctic Trans Polar Drift: Data from summers 2001, 2004 and 2007. Journal of Geophysical Research, 2010, 115, .	3.3	31
188	Seasonality of spectral albedo and transmittance as observed in the Arctic Transpolar Drift in 2007. Journal of Geophysical Research, 2010, 115, .	3.3	92
189	Changes in synoptic weather patterns and Greenland precipitation in the 20th and 21st centuries: 2. Analysis of 21st century atmospheric changes using self-organizing maps. Journal of Geophysical Research, 2010, 115, .	3.3	63
190	New estimates of the large-scale Arctic atmospheric energy budget. Journal of Geophysical Research, 2010, 115, .	3.3	33
191	Integrated assessment of changes in freshwater inflow to the Arctic Ocean. Journal of Geophysical Research, 2010, 115, .	3.3	35
192	A link between reduced Barentsâ€“Kara sea ice and cold winter extremes over northern continents. Journal of Geophysical Research, 2010, 115, .	3.3	507
193	A three-dimensional characterization of Arctic aerosols from airborne Sun photometer observations: PAMâ€“ARCMIP, April 2009. Journal of Geophysical Research, 2010, 115, .	3.3	57
194	New Unified Sea Ice Thickness Climate Data Record. Eos, 2010, 91, 405-406.	0.1	31
195	Increasing fallâ€“winter energy loss from the Arctic Ocean and its role in Arctic temperature amplification. Geophysical Research Letters, 2010, 37, .	4.0	279
196	Contribution of sea ice loss to Arctic amplification. Geophysical Research Letters, 2010, 37, .	4.0	120
197	Interannual variability of Arctic sea ice export into the East Greenland Current. Journal of Geophysical Research, 2010, 115, .	3.3	20
198	Physical, dielectric, and C band microwave scattering properties of first-year sea ice during advanced melt. Journal of Geophysical Research, 2010, 115, .	3.3	26
199	Influence of Arctic sea ice extent on polar cloud fraction and vertical structure and implications for regional climate. Journal of Geophysical Research, 2010, 115, .	3.3	98
200	A multi-data set analysis of variability and change in Arctic spring snow cover extent, 1967â€“2008. Journal of Geophysical Research, 2010, 115, .	3.3	207
201	On the emergence of an Arctic amplification signal in terrestrial Arctic snow extent. Journal of Geophysical Research, 2010, 115, .	3.3	44
202	Terrestrial water budget of the Eurasian pan-Arctic from GRACE satellite measurements during 2003â€“2009. Journal of Geophysical Research, 2010, 115, .	3.3	94

#	ARTICLE	IF	CITATIONS
203	Tracking the Movement and Changing Surface Characteristics of Arctic Sea Ice. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 536-540.	4.9	61
204	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. Journal of Climate, 2010, 23, 5715-5737.	3.2	303
205	Full Issue in PDF / Numéro complet en PDF. Canadian Journal of Remote Sensing, 2010, 36, ii-S210.	2.4	0
206	Twenty-first century discharge and sediment yield predictions in a small high Arctic watershed. Global and Planetary Change, 2010, 71, 27-41.	3.5	33
207	Predicting survival, reproduction and abundance of polar bears under climate change. Biological Conservation, 2010, 143, 1612-1622.	4.1	180
208	Observations and exploration of the Arctic's Canada Basin and the Chukchi Sea: The Hidden Ocean and RUSALCA expeditions. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1-4.	1.4	14
209	Arctic sea-ice ridges "Safe heavens for sea-ice fauna during periods of extreme ice melt?". Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 86-95.	1.4	60
210	Benthic macrofauna and megafauna assemblages in the Arctic deep-sea Canada Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 136-152.	1.4	69
211	History of sea ice in the Arctic. Quaternary Science Reviews, 2010, 29, 1757-1778.	3.0	343
212	Arctic sea-ice cover from the early Holocene: the role of atmospheric circulation patterns. Quaternary Science Reviews, 2010, 29, 3457-3467.	3.0	11
213	Quaternary Sea-ice history in the Arctic Ocean based on a new Ostracode sea-ice proxy. Quaternary Science Reviews, 2010, 29, 3415-3429.	3.0	78
214	Now more than ever: The need for more societally relevant research on vulnerability and adaptation to climate change. Applied Geography, 2010, 30, 464-474.	3.7	122
215	Arctic sea ice response to atmospheric forcings with varying levels of anthropogenic warming and climate variability. Geophysical Research Letters, 2010, 37, .	4.0	12
216	Deepening of the nutricline and chlorophyll maximum in the Canada Basin interior, 2003-2009. Geophysical Research Letters, 2010, 37, .	4.0	193
217	Effects of future climate change on primary productivity and export fluxes in the Beaufort Sea. Journal of Geophysical Research, 2010, 115, .	3.3	50
218	CO ₂ fluxes across the air-sea interface in the southeastern Beaufort Sea: Ice-free period. Journal of Geophysical Research, 2010, 115, .	3.3	50
219	Using the MicroASAR on the NASA SIERRA UAS in the Characterization of Arctic Sea Ice Experiment. , 2010, , .		14
220	Methane and nitrous oxide in surface water along the North-West Passage, Arctic Ocean. Marine Chemistry, 2010, 121, 80-86.	2.3	62

#	ARTICLE	IF	CITATIONS
221	Polar Oceans from Space. Atmospheric and Oceanographic Sciences Library, 2010, , .	0.1	54
222	Implementing Civic Engagement Ideals in Analytical Chemistry. ACS Symposium Series, 2010, , 85-108.	0.5	0
223	Reduced body size and cub recruitment in polar bears associated with sea ice decline. Ecological Applications, 2010, 20, 768-782.	3.8	236
224	Free Database Availability, Metadata and the Internet: An Example of Two High Latitude Components of the Census of Marine Life. , 2010, , 233-243.		13
225	Un demi-si�cle de recherche au Centre d'�tudes nordiques: un d�fi de tous les instants. Ecoscience, 2011, 18, 171-181.	1.4	2
226	The role of interactions in a world implementing adaptation and mitigation solutions to climate change. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 217-241.	3.4	73
227	Applications of Geostatistics in Optimal Design of Satellite Altimetry Orbits and Measurement Configurations. Journal of the Astronautical Sciences, 2011, 58, 495-511.	1.5	4
228	Air��Water Exchange of Anthropogenic and Natural Organohalogens on International Polar Year (IPY) Expeditions in the Canadian Arctic. Environmental Science & Technology, 2011, 45, 876-881.	10.0	72
229	Revolatilization of persistent organic pollutants in the Arctic induced by climate change. Nature Climate Change, 2011, 1, 255-260.	18.8	267
230	Effects of solar UV radiation and climate change on biogeochemical cycling: interactions and feedbacks. Photochemical and Photobiological Sciences, 2011, 10, 261-279.	2.9	87
231	Trends and variability in summer sea ice cover in the Canadian Arctic based on the Canadian Ice Service Digital Archive, 1960��2008 and 1968��2008. Journal of Geophysical Research, 2011, 116, .	3.3	116
232	Origin of Arctic water vapor during the ice-growth season. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	98
233	Wintertime CO ₂ fluxes in an Arctic polynya using eddy covariance: Evidence for enhanced air-sea gas transfer during ice formation. Journal of Geophysical Research, 2011, 116, .	3.3	76
234	Pollution transport efficiency toward the Arctic: Sensitivity to aerosol scavenging and source regions. Journal of Geophysical Research, 2011, 116, .	3.3	118
235	Physically based snow albedo model for calculating broadband albedos and the solar heating profile in snowpack for general circulation models. Journal of Geophysical Research, 2011, 116, .	3.3	148
236	Sensitivity of seawater oxygen isotopes to climatic and tectonic boundary conditions in an early Paleogene simulation with GISS ModelE��R. Paleoceanography, 2011, 26, .	3.0	27
237	Climate model genealogy. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	276
238	Sudden increase in Antarctic sea ice: Fact or artifact?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	15

#	ARTICLE	IF	CITATIONS
239	Temperature signature of high latitude Atlantic boundary currents revealed by marine mammal-borne sensor and Argo data. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	20
240	The reversibility of sea ice loss in a state-of-the-art climate model. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	75
241	Multiregime states of Arctic atmospheric circulation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	1
242	Dramatic interannual changes of perennial Arctic sea ice linked to abnormal summer storm activity. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	121
243	Analysis of the Arctic atmospheric energy budget in WRF: A comparison with reanalyses and satellite observations. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	26
244	Intercomparison of cloud model simulations of Arctic mixed-phase boundary layer clouds observed during SHEBA/FIRE-ACE. <i>Journal of Advances in Modeling Earth Systems</i> , 2011, 3, n/a-n/a.	3.8	90
245	Development and Testing of Polar WRF. Part III: Arctic Land*. <i>Journal of Climate</i> , 2011, 24, 26-48.	3.2	121
246	The Changing Cryosphere: Pan-Arctic Snow Trends (1979-2009). <i>Journal of Climate</i> , 2011, 24, 5691-5712.	3.2	225
247	Near-Surface Eddy Heat and Momentum Fluxes in the Antarctic Circumpolar Current in Drake Passage. <i>Journal of Physical Oceanography</i> , 2011, 41, 1385-1407.	1.7	20
248	A review on Northern Hemisphere sea-ice, storminess and the North Atlantic Oscillation: Observations and projected changes. <i>Atmospheric Research</i> , 2011, 101, 809-834.	4.1	185
249	Powering sea-ice instrumentation via the Seebeck Effect. <i>Cold Regions Science and Technology</i> , 2011, 68, 60-67.	3.5	1
250	Uncertainty in climate change projections. <i>Journal of Geochemical Exploration</i> , 2011, 110, 1-7.	3.2	43
251	Processes and impacts of Arctic amplification: A research synthesis. <i>Global and Planetary Change</i> , 2011, 77, 85-96.	3.5	1,611
252	Antarctic sympagic meiofauna in winter: Comparing diversity, abundance and biomass between perennially and seasonally ice-covered regions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1062-1074.	1.4	25
253	Sea-ice thickness distribution of the Bellingshausen Sea from surface measurements and ICESat altimetry. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1039-1051.	1.4	46
254	A perspective on decadal climate variability and predictability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1880-1894.	1.4	89
255	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
256	The spatial distribution of solar radiation under a melting Arctic sea ice cover. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	116

#	ARTICLE	IF	CITATIONS
257	Changing seasonal sea ice predictor relationships in a changing Arctic climate. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	68
258	Interannual to multi-decadal Arctic sea ice extent trends in a warming world. Geophysical Research Letters, 2011, 38, .	4.0	227
259	Numerical study of winter water formation in the Chukchi Sea: Roles and impacts of coastal polynyas. Journal of Geophysical Research, 2011, 116, .	3.3	12
260	Large-scale modeling of primary production and ice algal biomass within arctic sea ice in 1992. Journal of Geophysical Research, 2011, 116, .	3.3	59
261	Primary productivity in the Arctic Ocean: Impacts of complex optical properties and subsurface chlorophyll maxima on large-scale estimates. Journal of Geophysical Research, 2011, 116, .	3.3	106
262	Secular trends in Arctic Ocean net primary production. Journal of Geophysical Research, 2011, 116, .	3.3	339
263	Modeling the formation and fate of the near-surface temperature maximum in the Canadian Basin of the Arctic Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	51
264	Roles of marginal seas in absorbing and storing fossil fuel CO ₂ . Energy and Environmental Science, 2011, 4, 1133.	30.8	65
265	Defining "dangerous climate change". , 2011, , 99-100.		1
266	Tipping elements: jokers in the pack. , 0, , 163-201.		2
267	Future Arctic Ocean Seasonal Ice Zones and Implications for Pelagic-Benthic Coupling. Oceanography, 2011, 24, 220-231.	1.0	269
268	Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453.	4.9	259
269	The effect of sea ice loss on sea salt aerosol concentrations and the radiative balance in the Arctic. Atmospheric Chemistry and Physics, 2011, 11, 3459-3477.	4.9	94
270	Future emissions from shipping and petroleum activities in the Arctic. Atmospheric Chemistry and Physics, 2011, 11, 5305-5320.	4.9	129
271	IPCC climate models do not capture Arctic sea ice drift acceleration: Consequences in terms of projected sea ice thinning and decline. Journal of Geophysical Research, 2011, 116, .	3.3	121
272	Snow-depth observations by adventurers traveling on Arctic sea ice. Annals of Glaciology, 2011, 52, 369-376.	1.4	15
273	Late Cenozoic Paleoceanography of the Central Arctic Ocean. IOP Conference Series: Earth and Environmental Science, 2011, 14, 012002.	0.3	10
274	Seasonal ice mass-balance buoys: adapting tools to the changing Arctic. Annals of Glaciology, 2011, 52, 18-26.	1.4	42

#	ARTICLE	IF	CITATIONS
275	Planktonic foraminifera in the Arctic: potentials and issues regarding modern and quaternary populations. IOP Conference Series: Earth and Environmental Science, 2011, 14, 012005.	0.3	19
276	Comparison of seasonal sea-ice thickness change in the Transpolar Drift observed by local ice mass-balance observations and floe-scale EM surveys. Annals of Glaciology, 2011, 52, 97-102.	1.4	19
277	Uncertainty in modeled Arctic sea ice volume. Journal of Geophysical Research, 2011, 116, .	3.3	421
278	Integrated pan-Arctic melt onset detection from satellite active and passive microwave measurements, 2000-2009. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	31
279	Environmental Security in Arctic Ice-Covered Seas: From Strategy to Tactics of Hazard Identification and Emergency Response. Marine Technology Society Journal, 2011, 45, 37-48.	0.4	25
280	Environmental forcing of phytoplankton community structure and function in the Canadian High Arctic: contrasting oligotrophic and eutrophic regions. Marine Ecology - Progress Series, 2011, 442, 37-57.	1.9	156
281	Observational assessment of Arctic Ocean sea ice motion, export, and thickness in CMIP3 climate simulations. Journal of Geophysical Research, 2011, 116, .	3.3	39
282	The thinning of Arctic sea ice. Physics Today, 2011, 64, 36-41.	0.3	167
283	Trans-Pacific and trans-Arctic pathways of the intertidal macroalga <i>Fucus distichus</i> L. reveal multiple glacial refugia and colonizations from the North Pacific to the North Atlantic. Journal of Biogeography, 2011, 38, 756-771.	3.0	58
284	Footprints of climate change in the Arctic marine ecosystem. Global Change Biology, 2011, 17, 1235-1249.	9.5	612
285	Arctic future scenario experiments with a coupled regional climate model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2011, 63, 69-86.	1.7	29
286	Radiative forcing and albedo feedback from the Northern Hemisphere cryosphere between 1979 and 2008. Nature Geoscience, 2011, 4, 151-155.	12.9	330
287	Marine mercury breakdown. Nature Geoscience, 2011, 4, 139-140.	12.9	11
288	Impacts of climate change on European marine ecosystems: Observations, expectations and indicators. Journal of Experimental Marine Biology and Ecology, 2011, 400, 52-69.	1.5	249
289	Environmental control of summer primary production in the Hudson Bay system: The role of stratification. Journal of Marine Systems, 2011, 88, 385-400.	2.1	79
291	Consequences of changing sea-ice cover for primary and secondary producers in the European Arctic shelf seas: Timing, quantity, and quality. Progress in Oceanography, 2011, 90, 18-32.	3.2	370
292	Intra-regional comparison of productivity, carbon flux and ecosystem composition within the northern Barents Sea. Progress in Oceanography, 2011, 90, 33-46.	3.2	74
293	Circum-arctic comparison of the hatching season of polar cod <i>Boreogadus saida</i> : A test of the freshwater winter refuge hypothesis. Progress in Oceanography, 2011, 90, 105-116.	3.2	89

#	ARTICLE	IF	CITATIONS
294	Evaluating primary and secondary production in an Arctic Ocean void of summer sea ice: An experimental simulation approach. <i>Progress in Oceanography</i> , 2011, 90, 117-131.	3.2	195
295	Closing the loop “ Approaches to monitoring the state of the Arctic Mediterranean during the International Polar Year 2007–2008. <i>Progress in Oceanography</i> , 2011, 90, 62-89.	3.2	47
296	A 2000-yr-long multi-proxy lacustrine record from eastern Baffin Island, Arctic Canada reveals first millennium AD cold period. <i>Quaternary Research</i> , 2011, 75, 491-500.	1.7	15
297	Export of Pacific carbon through the Arctic Archipelago to the North Atlantic. <i>Continental Shelf Research</i> , 2011, 31, 806-816.	1.8	30
298	Canary in a coal mine: perceptions of climate change risks and response options among Canadian mine operations. <i>Climatic Change</i> , 2011, 109, 399-415.	3.6	32
299	Pulses of movement across the sea ice: population connectivity and temporal genetic structure in the arctic fox. <i>Oecologia</i> , 2011, 166, 973-984.	2.0	44
300	Sensitivity of Hudson Bay Sea ice and ocean climate to atmospheric temperature forcing. <i>Climate Dynamics</i> , 2011, 36, 1835-1849.	3.8	43
301	The 1958–2009 Greenland ice sheet surface melt and the mid-tropospheric atmospheric circulation. <i>Climate Dynamics</i> , 2011, 36, 139-159.	3.8	67
302	Inherent sea ice predictability in the rapidly changing Arctic environment of the Community Climate System Model, version 3. <i>Climate Dynamics</i> , 2011, 36, 1239-1253.	3.8	116
303	Warm winds from the Pacific caused extensive Arctic sea-ice melt in summer 2007. <i>Climate Dynamics</i> , 2011, 36, 2103-2112.	3.8	121
304	Changes in Arctic clouds during intervals of rapid sea ice loss. <i>Climate Dynamics</i> , 2011, 36, 1475-1489.	3.8	68
305	Critical vulnerabilities of marine and sea ice–based ecosystems in the high Arctic. <i>Regional Environmental Change</i> , 2011, 11, 239-248.	2.9	35
306	Interpreting “dangerous”™ in the United Nations framework convention on climate change and the human rights of Inuit. <i>Regional Environmental Change</i> , 2011, 11, 265-274.	2.9	7
307	Climate hotspots: key vulnerable regions, climate change and limits to warming. <i>Regional Environmental Change</i> , 2011, 11, 1-13.	2.9	112
308	The first demersal trawl survey of benthic fish and invertebrates in the Beaufort Sea since the late 1970s. <i>Polar Biology</i> , 2011, 34, 475-488.	1.2	92
309	Projected status of the Pacific walrus (<i>Odobenus rosmarus divergens</i>) in the twenty-first century. <i>Polar Biology</i> , 2011, 34, 1065-1084.	1.2	77
310	Distribution of polar cod and age-0 fish in the U.S. Beaufort Sea. <i>Polar Biology</i> , 2011, 34, 1543-1557.	1.2	40
311	Oceanographic characteristics of the habitat of benthic fish and invertebrates in the Beaufort Sea. <i>Polar Biology</i> , 2011, 34, 1783-1796.	1.2	40

#	ARTICLE	IF	CITATIONS
312	Impacts of changing sea-ice conditions on Arctic marine mammals. <i>Marine Biodiversity</i> , 2011, 41, 181-194.	1.0	303
314	Arctic climate change and oil spill risk analysis. <i>Frontiers of Earth Science</i> , 2011, 5, 350-362.	2.1	2
315	Adapting to climate change to sustain health. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011, 2, 271-282.	8.1	13
316	Analyzing abrupt and nonlinear climate changes and their impacts. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011, 2, 663-686.	8.1	36
317	Insights on global warming. <i>AIChE Journal</i> , 2011, 57, 3259-3284.	3.6	16
318	Sweeping scientific data under a polar bear skin rug: The IUCN and the proposed listing of polar bears under CITES Appendix I. <i>Marine Policy</i> , 2011, 35, 729-731.	3.2	8
319	Diurnal variability in sea surface temperature in the Arctic. <i>Remote Sensing of Environment</i> , 2011, 115, 2594-2602.	11.0	45
320	Can humans force a return to a "Cretaceous" climate?. <i>Sedimentary Geology</i> , 2011, 235, 5-26.	2.1	99
321	The potential seasonal alternative of Asia-Europe container service via Northern sea route under the Arctic sea ice retreat. <i>Maritime Policy and Management</i> , 2011, 38, 541-560.	3.8	61
323	On the influence of model physics on simulations of Arctic and Antarctic sea ice. <i>Cryosphere</i> , 2011, 5, 687-699.	3.9	62
324	Modeling the temperature evolution of Svalbard permafrost during the 20th and 21st century. <i>Cryosphere</i> , 2011, 5, 67-79.	3.9	81
325	The relationships between Arctic sea ice and cloud-related variables in the ERA-Interim reanalysis and CCSM3. <i>Environmental Research Letters</i> , 2011, 6, 014016.	5.2	28
326	Anthropogenic modification of the oceans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 887-908.	3.4	72
327	An observational 71-year history of seasonally frozen ground changes in the Eurasian high latitudes. <i>Environmental Research Letters</i> , 2011, 6, 044024.	5.2	62
328	Persistence and Inherent Predictability of Arctic Sea Ice in a GCM Ensemble and Observations. <i>Journal of Climate</i> , 2011, 24, 231-250.	3.2	218
329	Exopolymer alteration of physical properties of sea ice and implications for ice habitability and biogeochemistry in a warmer Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3653-3658.	7.1	213
330	Indirect and Semi-direct Aerosol Campaign. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 183-201.	3.3	228
331	Retrieval of sea ice thickness of Ross Sea with ICESat/GLAS measurements. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
332	Impact of the Atlantic Meridional Overturning Circulation (AMOC) on Arctic Surface Air Temperature and Sea Ice Variability. Journal of Climate, 2011, 24, 6573-6581.	3.2	138
333	Wind Regimes along the Beaufort Sea Coast Favorable for Strong Wind Events at Tuktoyaktuk. Journal of Applied Meteorology and Climatology, 2011, 50, 1291-1306.	1.5	15
334	Synoptically Driven Arctic Winter States. Journal of Climate, 2011, 24, 1747-1762.	3.2	132
335	Consistent Changes in the Sea Ice Seasonal Cycle in Response to Global Warming. Journal of Climate, 2011, 24, 5325-5335.	3.2	38
336	On North American Decadal Climate for 2011–20. Journal of Climate, 2011, 24, 4519-4528.	3.2	34
337	Motion Tracking of Discontinuous Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 5064-5079.	6.3	43
338	Polar Coasts. , 2011, , 245-283.		11
339	Characteristics of the Beaufort Sea High. Journal of Climate, 2011, 24, 159-182.	3.2	105
340	Recent wind driven high sea ice area export in the Fram Strait contributes to Arctic sea ice decline. Cryosphere, 2011, 5, 821-829.	3.9	80
341	Ocean Heat Transport as a Cause for Model Uncertainty in Projected Arctic Warming. Journal of Climate, 2011, 24, 1451-1460.	3.2	76
342	Do Climate Models Underestimate the Sensitivity of Northern Hemisphere Sea Ice Cover?. Journal of Climate, 2011, 24, 3924-3934.	3.2	97
343	The Boundary Layer Response to Recent Arctic Sea Ice Loss and Implications for High-Latitude Climate Feedbacks. Journal of Climate, 2011, 24, 428-447.	3.2	60
344	Factors Influencing Simulated Changes in Future Arctic Cloudiness. Journal of Climate, 2011, 24, 4817-4830.	3.2	29
345	Seasonal Relationships between Large-Scale Climate Variability and Antarctic Sea Ice Concentration. Journal of Climate, 2012, 25, 5451-5469.	3.2	127
346	Impact of sea ice cover changes on the Northern Hemisphere atmospheric winter circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 11595.	1.7	224
347	Tracking of Pacific walruses in the Chukchi Sea using a single hydrophone. Journal of the Acoustical Society of America, 2012, 131, 1349-1358.	1.1	24
348	Projected Changes in the Seasonal Cycle of Surface Temperature. Journal of Climate, 2012, 25, 6359-6374.	3.2	109
349	Impact of a Reduced Arctic Sea Ice Cover on Ocean and Atmospheric Properties. Journal of Climate, 2012, 25, 307-319.	3.2	15

#	ARTICLE	IF	CITATIONS
350	Contrasting trends in sea ice and primary production in the Bering Sea and Arctic Ocean. ICES Journal of Marine Science, 2012, 69, 1180-1193.	2.5	81
351	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. Journal of Climate, 2012, 25, 1431-1452.	3.2	99
352	A simple approach to providing a more consistent Arctic sea ice extent time series from the 1950s to present. Cryosphere, 2012, 6, 1359-1368.	3.9	36
353	The Initiation of Modern “Soft Snowball” and “Hard Snowball” Climates in CCSM3. Part I: The Influences of Solar Luminosity, CO2 Concentration, and the Sea Ice/Snow Albedo Parameterization. Journal of Climate, 2012, 25, 2711-2736.	3.2	61
354	The impact of a seasonally ice free Arctic Ocean on the temperature, precipitation and surface mass balance of Svalbard. Cryosphere, 2012, 6, 35-50.	3.9	25
355	Climatology of Total Cloudiness in the Arctic: An Intercomparison of Observations and Reanalyses. Advances in Meteorology, 2012, 2012, 1-15.	1.6	56
356	Transition in the fractal geometry of Arctic melt ponds. Cryosphere, 2012, 6, 1157-1162.	3.9	30
357	Limitations of a coupled regional climate model in the reproduction of the observed Arctic sea-ice retreat. Cryosphere, 2012, 6, 985-998.	3.9	18
358	On the Robustness of Emergent Constraints Used in Multimodel Climate Change Projections of Arctic Warming. Journal of Climate, 2012, 26, 669-678.	3.2	68
359	Long-distance swimming by polar bears (<i>Ursus maritimus</i>) of the southern Beaufort Sea during years of extensive open water. Canadian Journal of Zoology, 2012, 90, 663-676.	1.0	84
360	Climate change and ice dependent communities: perspectives from Siberia and Labrador. Polar Journal, 2012, 2, 61-75.	0.8	10
361	Loss of Multiyear Landfast Sea Ice from Yelverton Bay, Ellesmere Island, Nunavut, Canada. Arctic, Antarctic, and Alpine Research, 2012, 44, 210-221.	1.1	17
362	Underwater ambient noise on the Chukchi Sea continental slope from 2006–2009. Journal of the Acoustical Society of America, 2012, 131, 104-110.	1.1	82
363	Deep Arctic Ocean warming during the last glacial cycle. Nature Geoscience, 2012, 5, 631-634.	12.9	63
364	Large Decadal Decline of the Arctic Multiyear Ice Cover. Journal of Climate, 2012, 25, 1176-1193.	3.2	658
365	Impact of declining Arctic sea ice on winter snowfall. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4074-4079.	7.1	718
367	Constraining projections of summer Arctic sea ice. Cryosphere, 2012, 6, 1383-1394.	3.9	239
368	Sources of multi-decadal variability in Arctic sea ice extent. Environmental Research Letters, 2012, 7, 034011.	5.2	133

#	ARTICLE	IF	CITATIONS
369	Associations between the Autumn Arctic Sea Ice and North American Winter Precipitation. Atmospheric and Oceanic Science Letters, 2012, 5, 212-218.	1.3	6
370	Spring snow cover extent reductions in the 2008–2012 period exceeding climate model projections. Geophysical Research Letters, 2012, 39, .	4.0	316
371	Oceanographers' contribution to climate modelling and prediction: progress to date and a future perspective. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5656-5681.	3.4	5
372	Hotspots in the Arctic: Natural archives as an early warning system for global warming. Geology, 2012, 40, 1055-1056.	4.4	2
373	The Arctic Species Trend Index: using vertebrate population trends to monitor the health of a rapidly changing ecosystem. Biodiversity, 2012, 13, 144-156.	1.1	14
374	Exploratory Observations of Winter Oceanographic Conditions in the Saguenay Fjord. Atmosphere - Ocean, 2012, 50, 17-30.	1.6	10
375	Comment on "Tropospheric temperature response to stratospheric ozone recovery in the 21st century" by Hu et al. (2011). Atmospheric Chemistry and Physics, 2012, 12, 2533-2540.	4.9	8
376	Implications of all season Arctic sea-ice anomalies on the stratosphere. Atmospheric Chemistry and Physics, 2012, 12, 11819-11831.	4.9	22
377	Arctic Clouds and Surface Radiation – a critical comparison of satellite retrievals and the ERA-Interim reanalysis. Atmospheric Chemistry and Physics, 2012, 12, 6667-6677.	4.9	96
378	Aerosol optical depth over the Arctic: a comparison of ECHAM-HAM and TM5 with ground-based, satellite and reanalysis data. Atmospheric Chemistry and Physics, 2012, 12, 6953-6967.	4.9	25
379	Artificial primary marine aerosol production: a laboratory study with varying water temperature, salinity, and succinic acid concentration. Atmospheric Chemistry and Physics, 2012, 12, 10709-10724.	4.9	51
380	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
381	Annual cycles of CO_2 in the southeastern Beaufort Sea: New understandings of air-sea CO_2 exchange in arctic polynya regions. Journal of Geophysical Research, 2012, 117, .	3.3	39
382	Oceanographic regime shift during 1997 in Disko Bay, Western Greenland. Limnology and Oceanography, 2012, 57, 634-644.	3.1	64
383	An artificial pool experiment in Antarctic sea ice: effects of sea ice melting on physical and biogeochemical components of pool water. Antarctic Science, 2012, 24, 536-544.	0.9	4
384	Role of ice dynamics in anomalous ice conditions in the Beaufort Sea during 2006 and 2007. Journal of Geophysical Research, 2012, 117, .	3.3	54
385	Solar forcing on the ice winter severity index in the western Baltic region. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 89, 98-109.	1.6	12
387	Tide gauge-based sea level variations since 1950 along the Norwegian and Russian coasts of the Arctic Ocean: Contribution of the steric and mass components. Journal of Geophysical Research, 2012, 117, .	3.3	36

#	ARTICLE	IF	CITATIONS
388	Autumn atmospheric response to the 2007 low Arctic sea ice extent in coupled ocean-atmosphere hindcasts. <i>Climate Dynamics</i> , 2012, 38, 2437-2448.	3.8	101
389	Boundary layer stability and Arctic climate change: a feedback study using EC-Earth. <i>Climate Dynamics</i> , 2012, 39, 2659-2673.	3.8	47
390	On the Arctic Ocean ice thickness response to changes in the external forcing. <i>Climate Dynamics</i> , 2012, 39, 3007-3018.	3.8	12
391	Effect of surface albedo, water vapour, and atmospheric aerosols on the cloud-free shortwave radiative budget in the Arctic. <i>Climate Dynamics</i> , 2012, 39, 953-969.	3.8	20
392	Higher precision estimates of regional polar warming by ensemble regression of climate model projections. <i>Climate Dynamics</i> , 2012, 39, 2805-2821.	3.8	75
393	The impact of Arctic sea ice on the Arctic energy budget and on the climate of the Northern mid-latitudes. <i>Climate Dynamics</i> , 2012, 39, 2675-2694.	3.8	25
394	Atmospheric influence on Arctic marginal ice zone position and width in the Atlantic sector, February-April 1979-2010. <i>Climate Dynamics</i> , 2012, 39, 3091-3102.	3.8	30
395	Multiproxy reconstructions of climate for three sites in the Canadian High Arctic using <i>Cassiope tetragona</i> . <i>Climatic Change</i> , 2012, 114, 593-619.	3.6	16
396	A circumpolar monitoring framework for polar bears. <i>Ursus</i> , 2012, 23, 1-66.	0.5	55
397	Bounding the Southern Hudson Bay polar bear subpopulation. <i>Ursus</i> , 2012, 23, 134-144.	0.5	11
398	Climate change, fisheries, and aquaculture: trends and consequences for Canadian marine biodiversity ¹This manuscript is a companion paper to Vander Zwaag et al. (doi:10.1139/a2012-013) and Hutchings et al. (doi:10.1139/er-2012-0049) also appearing in this issue. These three papers comprise an edited version of a February 2012 Royal Society of Canada Expert Panel Report.. <i>Environmental Reviews</i> , 2012, 20, 220-311.	4.5	20
399	Microbial community structure of Arctic multiyear sea ice and surface seawater by 454 sequencing of the 16S RNA gene. <i>ISME Journal</i> , 2012, 6, 11-20.	9.8	175
400	Eurasian permafrost instability constrained by reduced sea-ice cover. <i>Quaternary Science Reviews</i> , 2012, 34, 16-23.	3.0	52
401	Intra-annual variations of biases in remote sensing primary ocean color products at a coastal site. <i>Remote Sensing of Environment</i> , 2012, 124, 627-636.	11.0	18
402	A sea-ice sensitivity study with a global ocean-ice model. <i>Ocean Modelling</i> , 2012, 51, 1-18.	2.4	40
403	The Future of Arctic Sea Ice. <i>Annual Review of Earth and Planetary Sciences</i> , 2012, 40, 625-654.	11.0	114
404	Frost flowers growing in the Arctic ocean-atmosphere-sea ice-snow interface: 1. Chemical composition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53
405	Shifting Patterns of Life in the Pacific Arctic and Sub-Arctic Seas. <i>Annual Review of Marine Science</i> , 2012, 4, 63-78.	11.6	356

#	ARTICLE	IF	CITATIONS
406	Effects of environmental conditions on the biomass of <i>Calanus</i> spp. in the Nordic Seas. <i>Journal of Plankton Research</i> , 2012, 34, 951-966.	1.8	52
407	Climate Change Impacts on Marine Ecosystems. <i>Annual Review of Marine Science</i> , 2012, 4, 11-37.	11.6	2,117
408	Deformation of the Arctic Ocean ice cover after the 2007 record minimum in summer ice extent. <i>Cold Regions Science and Technology</i> , 2012, 76-77, 17-23.	3.5	19
409	Short term extreme statistics of local ice loads on ship hulls. <i>Cold Regions Science and Technology</i> , 2012, 82, 130-143.	3.5	26
410	A comparison of the physics of the northern and southern shelves of the eastern Bering Sea and some implications for the ecosystem. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012, 65-70, 14-30.	1.4	170
411	Influence of the ocean surface temperature and sea ice concentration on regional climate changes in Eurasia in recent decades. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2012, 48, 355-372.	0.9	33
412	High-arctic seabird trophic variation revealed through long-term isotopic monitoring. <i>Journal of Ornithology</i> , 2012, 153, 1067-1078.	1.1	26
413	Assessment of the sensitivity of the southern coast of the Gulf of Corinth (Peloponnese, Greece) to sea-level rise. <i>Open Geosciences</i> , 2012, 4, 561-577.	1.7	28
414	Impact of Climate Change on Fishes in Complex Antarctic Ecosystems. <i>Advances in Ecological Research</i> , 2012, 46, 351-426.	2.7	59
415	Twenty-First-Century Arctic Climate Change in CCSM4. <i>Journal of Climate</i> , 2012, 25, 2696-2710.	3.2	112
417	Biodiversity of Arctic marine ecosystems and responses to climate change. <i>Biodiversity</i> , 2012, 13, 200-214.	1.1	37
418	September Arctic sea ice predicted to disappear near 2°C global warming above present. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	113
419	Air-sea interactions during an Arctic storm. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
420	Arctic low cloud changes as observed by MISR and CALIOP: Implication for the enhanced autumnal warming and sea ice loss. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
421	A cloudier Arctic expected with diminishing sea ice. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	78
422	Albedo evolution of seasonal Arctic sea ice. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	277
423	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	817
424	A sea ice free summer Arctic within 30 years: An update from CMIP5 models. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	324

#	ARTICLE	IF	CITATIONS
425	The freshwater composition of the Fram Strait outflow derived from a decade of tracer measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	62
426	Satellite observations of Antarctic sea ice thickness and volume. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	154
427	Impact of melt ponds on Arctic sea ice simulations from 1990 to 2007. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	80
428	Simulated Siberian snow cover response to observed Arctic sea ice loss, 1979â€“2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
429	Tuning the climate of a global model. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	334
430	Impact of melt ponds on Arctic sea ice in past and future climates as simulated by MPIâ€™ESM. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	28
431	Seafloor control on sea ice. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012, 77-80, 52-61.	1.4	21
432	Bacterioplankton and picophytoplankton abundance, biomass, and distribution in the Western Canada Basin during summer 2008. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012, 81-84, 36-45.	1.4	26
433	Horizontal distribution of calanoid copepods in the western Arctic Ocean during the summer of 2008. <i>Polar Science</i> , 2012, 6, 105-119.	1.2	14
434	Estimating the near-surface permafrost-carbon feedback on global warming. <i>Biogeosciences</i> , 2012, 9, 649-665.	3.3	160
435	Effect of ocean acidification and temperature increase on the planktonic foraminifer <i>Neogloboquadrina pachyderma</i> (sinistral). <i>Polar Biology</i> , 2012, 35, 1311-1319.	1.2	56
436	Resilience of persistent Arctic mixed-phase clouds. <i>Nature Geoscience</i> , 2012, 5, 11-17.	12.9	498
437	How Many Seals Were There? The Global Shelf Loss during the Last Glacial Maximum and Its Effect on the Size and Distribution of Grey Seal Populations. <i>PLoS ONE</i> , 2012, 7, e53000.	2.5	14
438	In situ determination of the remote sensing reflectance: an inter-comparison. <i>Ocean Science</i> , 2012, 8, 567-586.	3.4	77
439	Impact of rapid sea-ice reduction in the Arctic Ocean on the rate of ocean acidification. <i>Biogeosciences</i> , 2012, 9, 2365-2375.	3.3	48
440	Sea-Ice in Twentieth-Century Simulations by New MIROC Coupled Models: A Comparison between Models with High Resolution and with Ice Thickness Distribution. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90A, 213-232.	1.8	26
441	Pacific <scp>W</scp>alrus and climate change: observations and predictions. <i>Ecology and Evolution</i> , 2012, 2, 2072-2090.	1.9	34
442	Ice structures, patterns, and processes: A view across the icefields. <i>Reviews of Modern Physics</i> , 2012, 84, 885-944.	45.6	277

#	ARTICLE	IF	CITATIONS
443	Comparison of micrometeorological and two-film estimates of air-water gas exchange for alpha-hexachlorocyclohexane in the Canadian archipelago. Environmental Science and Pollution Research, 2012, 19, 1908-1914.	5.3	3
444	Evidence for a pan-Arctic sea-ice diatom diet in Strongylocentrotus spp. Polar Biology, 2012, 35, 1281-1287.	1.2	20
445	Declining summer snowfall in the Arctic: causes, impacts and feedbacks. Climate Dynamics, 2012, 38, 2243-2256.	3.8	128
446	Process studies on the ecological coupling between sea ice algae and phytoplankton. Ecological Modelling, 2012, 226, 120-138.	2.5	57
447	Springtime Arctic aerosol: Smoke versus haze, a case study for March 2008. Atmospheric Environment, 2012, 52, 48-55.	4.1	26
448	Effects of climate warming on polar bears: a review of the evidence. Global Change Biology, 2012, 18, 2694-2706.	9.5	234
449	Central Arctic paleoceanography for the last 50kyr based on ostracode faunal assemblages. Marine Micropaleontology, 2012, 88-89, 65-76.	1.2	39
450	How does climate change influence arctic mercury?. Science of the Total Environment, 2012, 414, 22-42.	8.0	198
451	Life history and biogeography of Calanus copepods in the Arctic Ocean: An individual-based modeling study. Progress in Oceanography, 2012, 96, 40-56.	3.2	81
452	An Individual Based Model of Arctic cod (Boreogadus saida) early life in Arctic polynyas: I. Simulated growth in relation to hatch date in the Northeast Water (Greenland Sea) and the North Water (Baffin) Tj ETQq1 1 0.284314 19 BT /Over	2.7	43
453	Sea ice properties in the Bohai Sea measured by MODIS-Aqua: 1. Satellite algorithm development. Journal of Marine Systems, 2012, 95, 32-40.	2.1	35
454	Characterization of Arctic Sea Ice Thickness Using High-Resolution Spaceborne Polarimetric SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 13-22.	6.3	44
455	Certain results of numerical simulation of processes in the Arctic Ocean. Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 102-119.	0.9	9
456	Spring Arctic sea ice as an indicator of North American summer rainfall. International Journal of Climatology, 2012, 32, 1354-1361.	3.5	3
457	Arctic Climate Tipping Points. Ambio, 2012, 41, 10-22.	5.5	125
458	Arctic Ice Cover, Ice Thickness and Tipping Points. Ambio, 2012, 41, 23-33.	5.5	64
459	Tipping Points in the Arctic: Eyeballing or Statistical Significance?. Ambio, 2012, 41, 34-43.	5.5	41
460	Tipping Elements in the Arctic Marine Ecosystem. Ambio, 2012, 41, 44-55.	5.5	91

#	ARTICLE	IF	CITATIONS
461	Polar bear (<i>Ursus maritimus</i>) maternity den distribution in Svalbard, Norway. <i>Polar Biology</i> , 2012, 35, 499-508.	1.2	61
462	The Arctic's rapidly shrinking sea ice cover: a research synthesis. <i>Climatic Change</i> , 2012, 110, 1005-1027.	3.6	1,277
463	Potential climatic transitions with profound impact on Europe. <i>Climatic Change</i> , 2012, 110, 845-878.	3.6	67
464	A link between Arctic sea ice and recent cooling trends over Eurasia. <i>Climatic Change</i> , 2012, 110, 1069-1075.	3.6	111
465	Climate links and recent extremes in antarctic sea ice, high-latitude cyclones, Southern Annular Mode and ENSO. <i>Climate Dynamics</i> , 2012, 38, 57-73.	3.8	105
466	Climate change and the oceans – What does the future hold?. <i>Marine Pollution Bulletin</i> , 2013, 74, 495-505.	5.0	191
467	Effects of hunting, fishing and climate change on the Hudson Bay marine ecosystem: II. Ecosystem model future projections. <i>Ecological Modelling</i> , 2013, 264, 143-156.	2.5	19
468	Interannual Variability of Young Ice in the Arctic Estimated Between 2002 and 2009. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 3354-3370.	6.3	9
469	Marine mammal acoustic detections in the northeastern Chukchi Sea, September 2007–July 2011. <i>Continental Shelf Research</i> , 2013, 67, 127-146.	1.8	78
470	Changing Discharge Patterns of High-Latitude Rivers. , 2013, , 161-175.		12
471	Validating ICESat Over Thick Sea Ice in the Northern Canada Basin. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 2188-2200.	6.3	15
472	The diets of polar cod (<i>Boreogadus saida</i>) from August 2008 in the US Beaufort Sea. <i>Polar Biology</i> , 2013, 36, 907-912.	1.2	30
473	Habitat use by harbour seals (<i>Phoca vitulina</i>) in a seasonally ice-covered region, the western Hudson Bay. <i>Polar Biology</i> , 2013, 36, 477-491.	1.2	22
474	Simulation of sea ice in FGOALS-g2: Climatology and late 20th century changes. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 658-673.	4.3	10
475	A case study of a modelled episode of low Arctic sea ice. <i>Climate Dynamics</i> , 2013, 41, 1229-1244.	3.8	10
476	Arctic climate change in 21st century CMIP5 simulations with EC-Earth. <i>Climate Dynamics</i> , 2013, 40, 2719-2743.	3.8	146
477	A box model of the Arctic natural variability. <i>Climate Dynamics</i> , 2013, 40, 1687-1706.	3.8	1
478	Observed changes in the albedo of the Arctic sea-ice zone for the period 1982–2009. <i>Nature Climate Change</i> , 2013, 3, 895-898.	18.8	68

#	ARTICLE	IF	CITATIONS
479	Polar Bears: The Fate of an Icon. Topics in Companion Animal Medicine, 2013, 28, 135-142.	0.9	1
480	Using pelagic ciliated microzooplankton communities as an indicator for monitoring environmental condition under impact of summer sea-ice reduction in western Arctic Ocean. Ecological Indicators, 2013, 34, 380-390.	6.3	71
481	Vulnerability of Polar Oceans to Anthropogenic Acidification: Comparison of Arctic and Antarctic Seasonal Cycles. Scientific Reports, 2013, 3, 2339.	3.3	74
482	Impacts of climate change on fresh water content and sea surface height in the Beaufort Sea. Ocean Modelling, 2013, 71, 127-139.	2.4	10
483	Severe winter weather as a response to the lowest Arctic sea-ice anomalies. Acta Oceanologica Sinica, 2013, 32, 11-15.	1.0	2
484	Future sea ice conditions in Western Hudson Bay and consequences for polar bears in the 21st century. Global Change Biology, 2013, 19, 2675-2687.	9.5	81
485	Diminishing Sea-Ice Extent and Thickness in the Arctic Ocean. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 15-30.	0.2	5
486	Satellite-based modeling of permafrost temperatures in a tundra lowland landscape. Remote Sensing of Environment, 2013, 135, 12-24.	11.0	91
487	Arctic Sea Ice Reduction and Extreme Climate Events over the Mediterranean Region. Journal of Climate, 2013, 26, 10101-10110.	3.2	36
488	First evidence of reproductive success in a southern invader indicates possible community shifts among Arctic zooplankton. Marine Ecology - Progress Series, 2013, 493, 291-296.	1.9	57
489	Climate change prediction: Erring on the side of least drama?. Global Environmental Change, 2013, 23, 327-337.	7.8	252
490	Identifying human influences on atmospheric temperature. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 26-33.	7.1	117
491	Biomarker proxy shows potential for studying the entire Quaternary Arctic sea ice history. Organic Geochemistry, 2013, 55, 98-102.	1.8	60
492	Warm climate isotopic simulations: what do we learn about interglacial signals in Greenland ice cores?. Quaternary Science Reviews, 2013, 67, 59-80.	3.0	43
493	Evaluation of the sea ice proxy IP25 against observational and diatom proxy data in the SW Labrador Sea. Quaternary Science Reviews, 2013, 79, 53-62.	3.0	41
494	Reconstructing past sea ice cover of the Northern Hemisphere from dinocyst assemblages: status of the approach. Quaternary Science Reviews, 2013, 79, 122-134.	3.0	88
495	Dinocyst-based reconstructions of sea ice cover concentration during the Holocene in the Arctic Ocean, the northern North Atlantic Ocean and its adjacent seas. Quaternary Science Reviews, 2013, 79, 111-121.	3.0	128
496	A review of sea ice proxy information from polar ice cores. Quaternary Science Reviews, 2013, 79, 168-183.	3.0	110

#	ARTICLE	IF	CITATIONS
497	The Atmospheric Response to Three Decades of Observed Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2013, 26, 1230-1248.	3.2	314
498	Topological properties of polar food webs. <i>Marine Ecology - Progress Series</i> , 2013, 474, 15-26.	1.9	34
499	Arctic climate over the past millennium: Annual and seasonal responses to external forcings. <i>Holocene</i> , 2013, 23, 321-329.	1.7	27
500	Future projections of the Greenland ice sheet energy balance driving the surface melt. <i>Cryosphere</i> , 2013, 7, 1-18.	3.9	74
501	High biolability of ancient permafrost carbon upon thaw. <i>Geophysical Research Letters</i> , 2013, 40, 2689-2693.	4.0	230
502	Cross-shelf transport of warm and saline water in response to sea ice drift on the Laptev Sea shelf. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 563-576.	2.6	25
503	Drivers of projected change in arctic moist static energy transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2748-2761.	3.3	31
504	Case Study: Novel Socio-Ecological Systems in the North: Potential Pathways Toward Ecological and Societal Resilience. , 2013, , 334-344.		6
505	Historical Antarctic mean sea ice area, sea ice trends, and winds in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5105-5110.	3.3	91
506	Climate Disruption: Are We Beyond the Worst Case Scenario?. <i>Global Policy</i> , 2013, 4, 32-42.	1.7	8
507	Shoaling of the nutricline with an increase in near-freezing temperature water in the Makarov Basin. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 635-649.	2.6	37
508	Biomarker distributions in surface sediments from the Kara and Laptev seas (Arctic Ocean): indicators for organic-carbon sources and sea-ice coverage. <i>Quaternary Science Reviews</i> , 2013, 79, 40-52.	3.0	75
509	Can natural variability explain observed Antarctic sea ice trends? New modeling evidence from CMIP5. <i>Geophysical Research Letters</i> , 2013, 40, 3195-3199.	4.0	143
510	The impact of lower sea-ice extent on Arctic greenhouse-gas exchange. <i>Nature Climate Change</i> , 2013, 3, 195-202.	18.8	119
511	Validation and potential applications of Environment Canada Ice Concentration Extractor (ECICE) algorithm to Arctic ice by combining AMSR-E and QuikSCAT observations. <i>Remote Sensing of Environment</i> , 2013, 128, 315-332.	11.0	23
512	Observed variations in multidecadal Antarctic sea ice trends during 1979–2012. <i>Geophysical Research Letters</i> , 2013, 40, 3643-3648.	4.0	46
513	Australian residents' attitudes toward pro-environmental behaviour and climate change impacts on the Great Barrier Reef. <i>Journal of Environmental Planning and Management</i> , 2013, 56, 494-511.	4.5	26
514	Adaptive strategies and life history characteristics in a warming climate: Salmon in the Arctic?. <i>Environmental Biology of Fishes</i> , 2013, 96, 1187-1226.	1.0	61

#	ARTICLE	IF	CITATIONS
515	Annual cycle of air-sea CO ₂ exchange in an Arctic Polynya Region. <i>Global Biogeochemical Cycles</i> , 2013, 27, 388-398.	4.9	24
516	Modelling snow and ice thickness in the coastal Kara Sea, Russian Arctic. <i>Annals of Glaciology</i> , 2013, 54, 105-113.	1.4	26
517	Impact of Greenhouse Gas Emissions and Climate Change. , 2013, , 92-108.		1
518	New estimates of Arctic and Antarctic sea ice extent during September 1964 from recovered Nimbus II satellite imagery. <i>Cryosphere</i> , 2013, 7, 699-705.	3.9	53
519	A long-term and reproducible passive microwave sea ice concentration data record for climate studies and monitoring. <i>Earth System Science Data</i> , 2013, 5, 311-318.	9.9	230
520	Future Arctic marine access: analysis and evaluation of observations, models, and projections of sea ice. <i>Cryosphere</i> , 2013, 7, 321-332.	3.9	34
521	Mechanisms causing reduced Arctic sea ice loss in a coupled climate model. <i>Cryosphere</i> , 2013, 7, 555-567.	3.9	4
522	North American Climate in CMIP5 Experiments. Part I: Evaluation of Historical Simulations of Continental and Regional Climatology. <i>Journal of Climate</i> , 2013, 26, 9209-9245.	3.2	242
523	High and Dry: New Observations of Tropospheric and Cloud Properties above the Greenland Ice Sheet. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 169-186.	3.3	99
524	Sea ice dynamics influence halogen deposition to Svalbard. <i>Cryosphere</i> , 2013, 7, 1645-1658.	3.9	27
525	Summer sea ice characteristics and morphology in the Pacific Arctic sector as observed during the CHINARE 2010 cruise. <i>Cryosphere</i> , 2013, 7, 1057-1072.	3.9	24
526	Causes and consequences of mid-21st-century rapid ice loss events simulated by the Rossby centre regional atmosphere-ocean model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2013, 65, 19110.	1.7	6
527	An Initial Assessment of Antarctic Sea Ice Extent in the CMIP5 Models. <i>Journal of Climate</i> , 2013, 26, 1473-1484.	3.2	261
528	Adaptive governance and institutional strategies for climate-induced community relocations in Alaska. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9320-9325.	7.1	179
529	Reducing spread in climate model projections of a September ice-free Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12571-12576.	7.1	138
530	An estimated cost of lost climate regulation services caused by thawing of the Arctic cryosphere. <i>Ecological Applications</i> , 2013, 23, 1869-1880.	3.8	27
531	Seasonal Prediction of Arctic Sea Ice Extent from a Coupled Dynamical Forecast System. <i>Monthly Weather Review</i> , 2013, 141, 1375-1394.	1.4	111
532	Biogeochemical evidence for hydrologic changes during the Holocene in a lake sediment record from southeast Greenland. <i>Holocene</i> , 2013, 23, 1428-1439.	1.7	35

#	ARTICLE	IF	CITATIONS
533	Examining Internal and External Contributors to Greenland Climate Variability Using CCSM3. <i>Journal of Climate</i> , 2013, 26, 9745-9773.	3.2	8
534	A recent tipping point in the Arctic sea-ice cover: abrupt and persistent increase in the seasonal cycle since 2007. <i>Cryosphere</i> , 2013, 7, 275-286.	3.9	38
536	Arctic sea-ice evolution as modeled by Max Planck Institute for Meteorology's Earth system model. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 173-194.	3.8	110
537	Arctic Ocean sea ice snow depth evaluation and bias sensitivity in CCSM. <i>Cryosphere</i> , 2013, 7, 1887-1900.	3.9	21
538	Characteristics of CryoSat-2 signals over multi-year and seasonal sea ice. , 2013, , .		0
539	Data-derived spatial-resolution errors of Antarctic sea-ice thickness. <i>Polar Geography</i> , 2013, 36, 202-220.	1.9	2
540	On the 2012 record low Arctic sea ice cover: Combined impact of preconditioning and an August storm. <i>Geophysical Research Letters</i> , 2013, 40, 1356-1361.	4.0	391
541	Revisiting internal waves and mixing in the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3966-3977.	2.6	81
542	Physical and sociocultural factors affecting walrus subsistence at three villages in the northern Bering Sea: 1952-2004. <i>Polar Geography</i> , 2013, 36, 65-85.	1.9	9
543	Recent Trends in Arctic Sea Ice and the Evolving Role of Atmospheric Circulation Forcing, 1979-2007. <i>Geophysical Monograph Series</i> , 0, , 7-26.	0.1	16
544	Reconstructing Sea Ice Conditions in the Arctic and Sub-Arctic Prior to Human Observations. <i>Geophysical Monograph Series</i> , 0, , 27-45.	0.1	18
545	What is the Trajectory of Arctic Sea Ice?. <i>Geophysical Monograph Series</i> , 2013, , 175-185.	0.1	2
546	Analysis of Arctic Sea Ice Anomalies in a Coupled Model Control Simulation. <i>Geophysical Monograph Series</i> , 0, , 187-211.	0.1	2
547	Some Aspects of Uncertainty in Predicting Sea Ice Thinning. <i>Geophysical Monograph Series</i> , 0, , 63-76.	0.1	19
548	Using Data from Climate Science to Teach Introductory Statistics. <i>Journal of Statistics Education</i> , 2013, 21, .	1.4	9
549	Low-level jet characteristics over the Arctic Ocean in spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11089-11099.	4.9	38
550	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
551	Cloud and boundary layer interactions over the Arctic sea ice in late summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9379-9399.	4.9	155

#	ARTICLE	IF	CITATIONS
552	Potential directions for the IWC to address the conservation and welfare challenges faced by cetacean species. <i>Animal Welfare</i> , 2013, 22, 143-145.	0.7	1
553	The Greenland Ice Sheet's surface mass balance in a seasonally sea ice-free Arctic. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1533-1544.	2.8	19
554	Changes in the Arctic Ocean CO ₂ sink (1996–2007): A regional model analysis. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1108-1118.	4.9	44
555	Thinning of Arctic sea ice observed in Fram Strait: 1990-2011. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5202-5221.	2.6	118
556	Pelagic primary productivity and upper ocean nutrient dynamics across Subarctic and Arctic Seas. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 7132-7152.	2.6	47
557	The melt-freeze cycle of the Arctic Ocean ice cover and its dependence on ocean stratification. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 5963-5976.	2.6	8
558	Surface albedo feedbacks from climate variability and change. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2827-2834.	3.3	30
559	Multiple Equilibria and Abrupt Transitions in Arctic Summer Sea Ice Extent. <i>Geophysical Monograph Series</i> , 0, , 151-174.	0.1	14
560	Arctic Sea Ice Decline: Introduction. <i>Geophysical Monograph Series</i> , 2013, , 1-5.	0.1	1
561	The Atmospheric Response to Realistic Reduced Summer Arctic Sea Ice Anomalies. <i>Geophysical Monograph Series</i> , 0, , 91-110.	0.1	26
562	The Role of Natural Versus Forced Change in Future Rapid Summer Arctic Ice Loss. <i>Geophysical Monograph Series</i> , 0, , 133-150.	0.1	34
563	Full-depth desalination of warm sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 435-447.	2.6	30
564	A Bayesian Network Modeling Approach to Forecasting the 21st Century Worldwide Status of Polar Bears. <i>Geophysical Monograph Series</i> , 0, , 213-268.	0.1	83
565	Long-term variations in Iceland–Scotland overflow strength during the Holocene. <i>Climate of the Past</i> , 2013, 9, 2073-2084.	3.4	73
566	Water content estimates of a first-year sea-ice pressure ridge keel from surface-nuclear magnetic resonance tomography. <i>Annals of Glaciology</i> , 2013, 54, 33-43.	1.4	5
567	Prominent bacterial heterotrophy and sources of ¹³ C-depleted fatty acids to the interior Canada Basin. <i>Biogeosciences</i> , 2013, 10, 7065-7080.	3.3	5
568	Warm Arctic, Cold Continents: A Common Pattern Related to Arctic Sea Ice Melt, Snow Advance, and Extreme Winter Weather. <i>Oceanography</i> , 2013, 26, .	1.0	95
569	Dynamically and Kinetically Consistent Global Ocean Circulation and Ice State Estimates. <i>International Geophysics</i> , 2013, 103, 553-579.	0.6	101

#	ARTICLE	IF	CITATIONS
570	Factors Affecting Harp Seal (<i>Pagophilus groenlandicus</i>) Strandings in the Northwest Atlantic. PLoS ONE, 2013, 8, e68779.	2.5	8
571	Simulating Polar Bear Energetics during a Seasonal Fast Using a Mechanistic Model. PLoS ONE, 2013, 8, e72863.	2.5	36
572	The Marine Cryosphere. International Geophysics, 2013, , 413-442.	0.6	2
573	Poleward ocean heat transports, sea ice processes, and Arctic sea ice variability in NorESM1-M simulations. Journal of Geophysical Research: Oceans, 2014, 119, 2095-2108.	2.6	44
574	Increasing carbon inventory of the intermediate layers of the Arctic Ocean. Journal of Geophysical Research: Oceans, 2014, 119, 2312-2326.	2.6	15
575	Surface energy budget of landfast sea ice during the transitions from winter to snowmelt and melt pond onset: The importance of net longwave radiation and cyclone forcings. Journal of Geophysical Research: Oceans, 2014, 119, 3679-3693.	2.6	19
576	Polar Bears from Space: Assessing Satellite Imagery as a Tool to Track Arctic Wildlife. PLoS ONE, 2014, 9, e101513.	2.5	44
577	Grand challenges in marine biogeochemistry. Frontiers in Marine Science, 2014, 1, .	2.5	17
578	Complete breeding failures in ivory gull following unusual rainy storms in North Greenland. Polar Research, 2014, 33, 22749.	1.6	10
579	Decline of Arctic sea ice: Evaluation and weighting of CMIP5 projections. Journal of Geophysical Research D: Atmospheres, 2014, 119, 546-554.	3.3	35
580	Path independence of climate and carbon cycle response over a broad range of cumulative carbon emissions. Earth System Dynamics, 2014, 5, 409-422.	7.1	46
581	Evaluation of the snow regime in dynamic vegetation land surface models using field measurements. Cryosphere, 2014, 8, 487-502.	3.9	1
582	Regional variability of acidification in the Arctic: a sea of contrasts. Biogeosciences, 2014, 11, 293-308.	3.3	41
583	The ocean's role in polar climate change: asymmetric Arctic and Antarctic responses to greenhouse gas and ozone forcing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130040.	3.4	114
584	Implications of Arctic Sea Ice Decline for the Earth System. Annual Review of Environment and Resources, 2014, 39, 57-89.	13.4	82
585	New view of Arctic cyclone activity from the Arctic system reanalysis. Geophysical Research Letters, 2014, 41, 1766-1772.	4.0	59
586	Contemporary (1960â€“2012) Evolution of the Climate and Surface Mass Balance of the Greenland Ice Sheet. Surveys in Geophysics, 2014, 35, 1155-1174.	4.6	89
587	Intensified Arctic warming under greenhouse warming by vegetationâ€“atmosphereâ€“sea ice interaction. Environmental Research Letters, 2014, 9, 094007.	5.2	27

#	ARTICLE	IF	CITATIONS
588	The MODIS ice surface temperature product as an indicator of sea ice minimum over the Arctic Ocean. Remote Sensing of Environment, 2014, 152, 99-108.	11.0	22
589	Synoptic activity associated with sea ice variability in the Arctic. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,117.	3.3	18
590	Chapter 16 The rock coasts of polar and sub-polar regions. Geological Society Memoir, 2014, 40, 263-281.	1.7	6
591	Simulation of global ocean acidification and chemical habitats of shallow- and cold-water coral reefs. Advances in Climate Change Research, 2014, 5, 189-196.	5.1	17
592	Toward Producing the Chukchiâ€Beaufort High-Resolution Atmospheric Reanalysis (CBHAR) via the WRFDA Data Assimilation System. Monthly Weather Review, 2014, 142, 788-805.	1.4	19
593	Polar Amplification in CCSM4: Contributions from the Lapse Rate and Surface Albedo Feedbacks. Journal of Climate, 2014, 27, 4433-4450.	3.2	113
594	The Early Winter Sea Ice Variability under the Recent Arctic Climate Shift. Journal of Climate, 2014, 27, 5092-5110.	3.2	19
595	The Role of the Mean State of Arctic Sea Ice on Near-Surface Temperature Trends. Journal of Climate, 2014, 27, 2819-2841.	3.2	10
596	The Impact of Surface Mixing on the Arctic River Water Distribution and Stratification in a Global Iceâ€Ocean Model. Journal of Climate, 2014, 27, 4359-4370.	3.2	28
597	Response of the Wintertime Northern Hemisphere Atmospheric Circulation to Current and Projected Arctic Sea Ice Decline: A Numerical Study with CAM5. Journal of Climate, 2014, 27, 244-264.	3.2	256
598	Sea-ice extent and its trend provide limited metrics of model performance. Cryosphere, 2014, 8, 229-243.	3.9	64
599	Using records from submarine, aircraft and satellites to evaluate climate model simulations of Arctic sea ice thickness. Cryosphere, 2014, 8, 1839-1854.	3.9	121
600	Effect of temperature on rates of ammonium uptake and nitrification in the western coastal Arctic during winter, spring, and summer. Global Biogeochemical Cycles, 2014, 28, 1455-1466.	4.9	44
601	Can regional climate engineering save the summer Arctic sea ice?. Geophysical Research Letters, 2014, 41, 880-885.	4.0	32
602	On the Strengthened Relationship between the East Asian Winter Monsoon and Arctic Oscillation: A Comparison of 1950â€70 and 1983â€2012. Journal of Climate, 2014, 27, 5075-5091.	3.2	57
603	Climate trends in the Arctic as observed from space. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 389-409.	8.1	236
604	Polar Bears Exhibit Genome-Wide Signatures of Bioenergetic Adaptation to Life in the Arctic Environment. Genome Biology and Evolution, 2014, 6, 433-450.	2.5	52
605	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. Journal of Advances in Modeling Earth Systems, 2014, 6, 141-184.	3.8	597

#	ARTICLE	IF	CITATIONS
606	On the Link between Arctic Sea Ice Decline and the Freshwater Content of the Beaufort Gyre: Insights from a Simple Process Model. <i>Journal of Climate</i> , 2014, 27, 8170-8184.	3.2	34
607	Influences of sea ice on the Eastern Bering Sea: NCAR CESM simulations and comparison with observations. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 109, 27-38.	1.4	20
608	Statistical analysis of temperature data sampled at Station-M in the Norwegian Sea. <i>Journal of Marine Systems</i> , 2014, 130, 31-45.	2.1	18
609	Comparison of spring-time phytoplankton community composition in two cold years from the western Gulf of Alaska into the southeastern Bering Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 109, 57-70.	1.4	14
610	Arctic Ocean perennial sea ice breakdown during the Early Holocene Insolation Maximum. <i>Quaternary Science Reviews</i> , 2014, 92, 123-132.	3.0	29
611	The Arctic freshwater cycle during a naturally and an anthropogenically induced warm climate. <i>Climate Dynamics</i> , 2014, 42, 2099-2112.	3.8	8
612	Recent climate variation in the Bering and Chukchi Seas and its linkages to large-scale circulation in the Pacific. <i>Climate Dynamics</i> , 2014, 42, 2423-2437.	3.8	24
613	Arctic Climate and Water Change: Model and Observation Relevance for Assessment and Adaptation. <i>Surveys in Geophysics</i> , 2014, 35, 853-877.	4.6	26
614	Spatial distribution of small phytoplankton composition in the Chukchi Sea. <i>Polar Biology</i> , 2014, 37, 99-109.	1.2	11
615	Comparison of surface albedo feedback in climate models and observations. <i>Geophysical Research Letters</i> , 2014, 41, 1717-1723.	4.0	26
616	Critical mechanisms for the formation of extreme arctic sea-ice extent in the summers of 2007 and 1996. <i>Climate Dynamics</i> , 2014, 43, 53-70.	3.8	15
617	Rapid development of arctic cyclone in June 2008 simulated by the cloud resolving global model NICAM. <i>Meteorology and Atmospheric Physics</i> , 2014, 126, 105-117.	2.0	14
618	The large marine ecosystem approach to assessment and management of polar bears during climate change. <i>Environmental Development</i> , 2014, 11, 67-83.	4.1	0
619	Holocene records of paleoclimatic and paleoceanographic changes in the western arctic. <i>Geosciences Journal</i> , 2014, 18, 247-260.	1.2	1
620	New tools for the reconstruction of Pleistocene Antarctic sea ice. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 399, 260-283.	2.3	53
621	North American Climate in CMIP5 Experiments: Part III: Assessment of Twenty-First-Century Projections*. <i>Journal of Climate</i> , 2014, 27, 2230-2270.	3.2	231
622	Thermal regimes in the Chukchi Sea from 1941 to 2008. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 109, 14-26.	1.4	19
623	Role of sea ice in formation of wintertime arctic temperature anomalies. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2014, 50, 343-349.	0.9	10

#	ARTICLE	IF	CITATIONS
624	Marine accessibility along Russia's Northern Sea Route. <i>Polar Geography</i> , 2014, 37, 111-133.	1.9	90
625	Seasonal changes in mesozooplankton swimmers collected by sediment trap moored at a single station on the Northwind Abyssal Plain in the western Arctic Ocean. <i>Journal of Plankton Research</i> , 2014, 36, 490-502.	1.8	29
626	The Met Office Hadley Centre sea ice and sea surface temperature data set, version 2: 1. Sea ice concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2864-2889.	3.3	331
627	Degradation of sterols and terrigenous organic matter in waters of the Mackenzie Shelf, Canadian Arctic. <i>Organic Geochemistry</i> , 2014, 75, 61-73.	1.8	58
628	Can uncertainties in sea ice albedo reconcile patterns of data-model discord for the Pliocene and 20th/21st centuries?. <i>Geophysical Research Letters</i> , 2014, 41, 2011-2018.	4.0	9
629	A trophic mass balance model of the eastern Chukchi Sea with comparisons to other high-latitude systems. <i>Polar Biology</i> , 2014, 37, 911-939.	1.2	58
630	A molecular survey of protist diversity through the central Arctic Ocean. <i>Polar Biology</i> , 2014, 37, 1271-1287.	1.2	40
631	Effects of Arctic Sea Ice Decline on Weather and Climate: A Review. <i>Surveys in Geophysics</i> , 2014, 35, 1175-1214.	4.6	595
632	Vertical heat transfer based on direct microstructure measurements in the ice-free Pacific-side Arctic Ocean: the role and impact of the Pacific water intrusion. <i>Journal of Oceanography</i> , 2014, 70, 343-353.	1.7	11
633	Storm-induced sea-ice breakup and the implications for ice extent. <i>Nature</i> , 2014, 509, 604-607.	27.8	228
634	Arctic Ocean Circulation Patterns Revealed by GRACE. <i>Journal of Climate</i> , 2014, 27, 1445-1468.	3.2	56
635	Sap flow changes in relation to permafrost degradation under increasing precipitation in an eastern Siberian larch forest. <i>Ecohydrology</i> , 2014, 7, 177-187.	2.4	68
636	Projected changes in solar UV radiation in the Arctic and sub-Arctic Oceans: Effects from changes in reflectivity, ice transmittance, clouds, and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8073-8090.	3.3	15
637	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
638	Arctic sea ice in transformation: A review of recent observed changes and impacts on biology and human activity. <i>Reviews of Geophysics</i> , 2014, 52, 185-217.	23.0	424
639	Biodiversity and Biogeography of the Lower Trophic Taxa of the Pacific Arctic Region: Sensitivities to Climate Change. , 2014, , 269-336.		32
640	Sea ice mass balance observations from the North Pole Environmental Observatory. <i>Geophysical Research Letters</i> , 2014, 41, 2019-2025.	4.0	45
641	Variability in under-ice export fluxes of biogenic matter in the Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2014, 28, 571-583.	4.9	75

#	ARTICLE	IF	CITATIONS
642	Modelling changes in Arctic Sea Ice Cover: an application of generalized and inflated beta and gamma densities. Journal of Statistical Distributions and Applications, 2014, 1, 3.	1.2	0
643	Annual distributions and sources of Arctic aerosol components, aerosol optical depth, and aerosol absorption. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4107-4124.	3.3	79
644	The thermodynamic structure of summer Arctic stratocumulus and the dynamic coupling to the surface. Atmospheric Chemistry and Physics, 2014, 14, 12573-12592.	4.9	55
645	Recent advances in understanding the Arctic climate system state and change from a sea ice perspective: a review. Atmospheric Chemistry and Physics, 2014, 14, 13571-13600.	4.9	71
646	Summer Arctic sea ice albedo in CMIP5 models. Atmospheric Chemistry and Physics, 2014, 14, 1987-1998.	4.9	37
647	Augmenting Inuit knowledge for safe sea-ice travel — The SmartICE information system. , 2014, , .		17
648	Measuring Ocean Bottom Pressure at the North Pole. Marine Technology Society Journal, 2014, 48, 52-68.	0.4	6
649	Remote sensing of aerosols in the Arctic for an evaluation of global climate model simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8169-8188.	3.3	31
650	Out of control: How we failed to adapt and suffered the consequences. Journal of Great Lakes Research, 2015, 41, 20-29.	1.9	12
651	A seamless approach to understanding and predicting Arctic sea ice in Met Office modelling systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140161.	3.4	3
652	Estimating the abundance of the Southern Hudson Bay polar bear subpopulation with aerial surveys. Polar Biology, 2015, 38, 1713-1725.	1.2	47
653	Nutrient supply and biological response to windâ€nduced mixing, inertial motion, internal waves, and currents in the northern <scp>C</scp>hukchi <scp>S</scp>ea. Journal of Geophysical Research: Oceans, 2015, 120, 1975-1992.	2.6	50
654	Influence of ice thickness and surface properties on light transmission through <scp>A</scp>rctic sea ice. Journal of Geophysical Research: Oceans, 2015, 120, 5932-5944.	2.6	70
655	Estimation of Sea Ice Freeboard from SARAL/AltiKa Data. Marine Geodesy, 2015, 38, 487-496.	2.0	6
656	A negative phase shift of the winter AO/NAO due to the recent Arctic seaâ€ice reduction in late autumn. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3209-3227.	3.3	180
658	Assessing the potential impacts of declining Arctic sea ice cover on the photochemical degradation of dissolved organic matter in the Chukchi and Beaufort Seas. Journal of Geophysical Research C: Biogeosciences, 2015, 120, 2326-2344.	3.0	17
659	Seasonal evolution of melt ponds on Arctic sea ice. Journal of Geophysical Research: Oceans, 2015, 120, 5968-5982.	2.6	83
660	Regional variability in sea ice melt in a changing Arctic. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140165.	3.4	46

#	ARTICLE	IF	CITATIONS
661	A Pliocene to recent history of the Bering Sea at Site U1340A, IODP Expedition 323. <i>Paleoceanography</i> , 2015, 30, 1641-1656.	3.0	15
662	Covariance between Arctic sea ice and clouds within atmospheric state regimes at the satellite footprint level. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12656-12678.	3.3	84
663	Arctic climate change in an ensemble of regional CORDEX simulations. <i>Polar Research</i> , 2015, 34, 24603.	1.6	43
664	Exploring the long-term Cenozoic Arctic Ocean climate history: a challenge within the International Ocean Discovery Program (IODP). <i>Arktos</i> , 2015, 1, 1.	1.0	12
665	Recent benthic foraminifera in the Arctic Ocean and Kara Sea continental margin. <i>Arktos</i> , 2015, 1, 1.	1.0	12
666	Causes for different spatial distributions of minimum Arctic sea-ice extent in 2007 and 2012. <i>Acta Oceanologica Sinica</i> , 2015, 34, 94-101.	1.0	6
667	Multi-temporal factors influence predation for polar bears in a changing climate. <i>Oikos</i> , 2015, 124, 1098-1107.	2.7	28
668	Simulation of the melt season using a resolved sea ice model with snow cover and melt ponds. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5194-5215.	2.6	7
669	Comparison of viscoelastic-type models for ocean wave attenuation in ice-covered seas. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6072-6090.	2.6	82
671	On local and zonal pulses of atmospheric heat transport in reanalysis data. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2376-2389.	2.7	6
672	The Impact of Arctic Winter Infrared Radiation on Early Summer Sea Ice. <i>Journal of Climate</i> , 2015, 28, 6281-6296.	3.2	43
674	Short-term changes in the mesozooplankton community and copepod gut pigment in the Chukchi Sea in autumn: reflections of a strong wind event. <i>Biogeosciences</i> , 2015, 12, 4005-4015.	3.3	14
675	Flux variations and vertical distributions of siliceous Rhizaria (Radiolaria and Phaeodaria) in the western Arctic Ocean: indices of environmental changes. <i>Biogeosciences</i> , 2015, 12, 2019-2046.	3.3	30
676	Innovative technology development for Arctic Exploration. , 2015, , .		10
677	Implications of the Circumpolar Genetic Structure of Polar Bears for Their Conservation in a Rapidly Warming Arctic. <i>PLoS ONE</i> , 2015, 10, e112021.	2.5	46
678	Conservation Issues: Polar Seas. , 2015, , .		0
679	A Synthesis of Year-Round Interdisciplinary Mooring Measurements in the Bering Strait (1990–2014) and the RUSALCA Years (2004–2011). <i>Oceanography</i> , 2015, 28, 46-67.	1.0	132
680	An ice-free Arctic Ocean: history, science, and scepticism. <i>Polar Record</i> , 2015, 51, 130-139.	0.8	3

#	ARTICLE	IF	CITATIONS
681	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. <i>Limnology and Oceanography</i> , 2015, 60, 817-830.	3.1	23
682	CLIMATE AND CLIMATE CHANGE Climate Feedbacks. , 2015, , 18-25.		4
683	Characterization of polar bear (<i>Ursus maritimus</i>) diets in the Canadian High Arctic. <i>Polar Biology</i> , 2015, 38, 1983-1992.	1.2	31
684	Arctic sea ice cover in connection with climate change. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2015, 51, 889-902.	0.9	9
685	Carbon Footprint of Transitional Shelters. <i>International Journal of Disaster Risk Science</i> , 2015, 6, 226-237.	2.9	10
686	Polar bear population dynamics in the southern Beaufort Sea during a period of sea ice decline. <i>Ecological Applications</i> , 2015, 25, 634-651.	3.8	177
687	Sea-ice distribution in the modern Arctic Ocean: Biomarker records from trans-Arctic Ocean surface sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 155, 16-29.	3.9	65
688	Fixed-Point Observation of Mixed Layer Evolution in the Seasonally Ice-Free Chukchi Sea: Turbulent Mixing due to Gale Winds and Internal Gravity Waves. <i>Journal of Physical Oceanography</i> , 2015, 45, 836-853.	1.7	23
689	The uniaxial compressive strength of the Arctic summer sea ice. <i>Acta Oceanologica Sinica</i> , 2015, 34, 129-136.	1.0	11
690	Nitrogen uptake dynamics in landfast sea ice of the Chukchi Sea. <i>Polar Biology</i> , 2015, 38, 781-797.	1.2	14
691	Home range distribution of polar bears in western Hudson Bay. <i>Polar Biology</i> , 2015, 38, 343-355.	1.2	24
692	Sea ice deformation in Fram Strait – Comparison of CICE simulations with analysis and classification of airborne remote-sensing data. <i>Cold Regions Science and Technology</i> , 2015, 117, 19-33.	3.5	8
693	Effects of recent decreases in arctic sea ice on an ice-associated marine bird. <i>Progress in Oceanography</i> , 2015, 136, 151-161.	3.2	75
694	Continued increases in Arctic Ocean primary production. <i>Progress in Oceanography</i> , 2015, 136, 60-70.	3.2	506
695	Divergent patterns of recent sea ice cover across the Bering, Chukchi, and Beaufort seas of the Pacific Arctic Region. <i>Progress in Oceanography</i> , 2015, 136, 32-49.	3.2	169
696	Seasonal and interannual variability of pan-Arctic surface mixed layer properties from 1979 to 2012 from hydrographic data, and the dominance of stratification for multiyear mixed layer depth shoaling. <i>Progress in Oceanography</i> , 2015, 134, 19-53.	3.2	183
697	Assessment of Sea Ice Albedo Radiative Forcing and Feedback over the Northern Hemisphere from 1982 to 2009 Using Satellite and Reanalysis Data. <i>Journal of Climate</i> , 2015, 28, 1248-1259.	3.2	29
698	Arctic cyclone water vapor isotopes support past sea ice retreat recorded in Greenland ice. <i>Scientific Reports</i> , 2015, 5, 10295.	3.3	41

#	ARTICLE	IF	CITATIONS
699	Sea Ice Enhancements to Polar WRF*. Monthly Weather Review, 2015, 143, 2363-2385.	1.4	69
700	Climate change and Arctic parasites. Trends in Parasitology, 2015, 31, 181-188.	3.3	35
701	The influence of Greenland ice sheet melting on the Atlantic meridional overturning circulation during past and future warm periods: a model study. Climate Dynamics, 2015, 44, 2137-2157.	3.8	8
702	Deconstructing the climate change response of the Northern Hemisphere wintertime storm tracks. Climate Dynamics, 2015, 45, 2847-2860.	3.8	58
703	Ice rafting history and paleoceanographic reconstructions of Core 08P23 from southern Chukchi Plateau, western Arctic Ocean since Marine Isotope Stage 3. Acta Oceanologica Sinica, 2015, 34, 68-75.	1.0	2
704	Large-scale numerical modeling of the dynamics of the area of the Arctic sea ice cover. Russian Meteorology and Hydrology, 2015, 40, 199-206.	1.3	0
705	Arctic Tropospheric Warming: Causes and Linkages to Lower Latitudes. Journal of Climate, 2015, 28, 2154-2167.	3.2	126
706	From sea ice to blubber: linking whale condition to krill abundance using historical whaling records. Polar Biology, 2015, 38, 1195-1202.	1.2	29
707	Potential changes in feeding behavior of Antarctic fish, Pseudotrematomus bernacchii (Boulenger,) Tj ETQq0 0 0 rgBT ₁ /Overlock 10 Tf 50	1.2	1
709	Climatic Changes Since 1700. Advances in Global Change Research, 2015, , 167-321.	1.6	10
710	Insights on past and future sea-ice evolution from combining observations and models. Global and Planetary Change, 2015, 135, 119-132.	3.5	97
711	Regional productivity of phytoplankton in the Western Arctic Ocean during summer in 2010. Deep-Sea Research Part II: Topical Studies in Oceanography, 2015, 120, 61-71.	1.4	22
712	Arctic Sea Ice Reemergence: The Role of Large-Scale Oceanic and Atmospheric Variability*. Journal of Climate, 2015, 28, 5477-5509.	3.2	46
713	A practical philosophy of complex climate modelling. European Journal for Philosophy of Science, 2015, 5, 149-169.	1.1	37
714	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
715	Arctic melt ponds and bifurcations in the climate system. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 70-81.	3.3	4
716	Oceanography north of 60°N from World Ocean Database. Progress in Oceanography, 2015, 132, 153-173.	3.2	37
717	Circulation and transformation of Atlantic water in the Eurasian Basin and the contribution of the Fram Strait inflow branch to the Arctic Ocean heat budget. Progress in Oceanography, 2015, 132, 128-152.	3.2	107

#	ARTICLE	IF	CITATIONS
718	Assessing the forecast skill of Arctic sea ice extent in the GloSea4 seasonal prediction system. <i>Climate Dynamics</i> , 2015, 44, 147-162.	3.8	53
719	Arctic Sea Ice Thickness Estimation from CryoSat-2 Satellite Data Using Machine Learning-Based Lead Detection. <i>Remote Sensing</i> , 2016, 8, 698.	4.0	53
720	Halogen-based reconstruction of Russian Arctic sea ice area from the Akademii Nauk ice core (Severnaya Zemlya). <i>Cryosphere</i> , 2016, 10, 245-256.	3.9	20
721	Mechanism of seasonal Arctic sea ice evolution and Arctic amplification. <i>Cryosphere</i> , 2016, 10, 2191-2202.	3.9	41
722	Assessment of Arctic and Antarctic sea ice predictability in CMIP5 decadal hindcasts. <i>Cryosphere</i> , 2016, 10, 2429-2452.	3.9	20
723	Arctic sea ice simulation in the PlioMIP ensemble. <i>Climate of the Past</i> , 2016, 12, 749-767.	3.4	15
724	Geostatistical and Statistical Classification of Sea-Ice Properties and Provinces from SAR Data. <i>Remote Sensing</i> , 2016, 8, 616.	4.0	5
725	Short-term changes in a microplankton community in the Chukchi Sea during autumn: consequences of a strong wind event. <i>Biogeosciences</i> , 2016, 13, 913-923.	3.3	10
726	GIS analysis of effects of future Baltic sea level rise on the island of Gotland, Sweden. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1571-1582.	3.6	8
727	Understanding Rapid Changes in Phase Partitioning between Cloud Liquid and Ice in Stratiform Mixed-Phase Clouds: An Arctic Case Study. <i>Monthly Weather Review</i> , 2016, 144, 4805-4826.	1.4	29
728	ESMValTool (v1.0) – a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2016, 9, 1747-1802.	3.6	127
729	Arctic Sea Ice. , 2016, , 37-48.		0
730	Atlantic Advection Driven Changes in Glacial Meltwater: Effects on Phytoplankton Chlorophyll-a and Taxonomic Composition in Kongsfjorden, Spitsbergen. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	27
731	Coupled Response of Bacterial Production to a Wind-Induced Fall Phytoplankton Bloom and Sediment Resuspension in the Chukchi Sea Shelf, Western Arctic Ocean. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	24
732	Comparing Near Coincident Space Borne C and X Band Fully Polarimetric SAR Data for Arctic Sea Ice Classification. <i>Remote Sensing</i> , 2016, 8, 198.	4.0	30
733	Improving Multiyear Sea Ice Concentration Estimates with Sea Ice Drift. <i>Remote Sensing</i> , 2016, 8, 397.	4.0	34
734	The ARM North Slope of Alaska (NSA) Sites. <i>Meteorological Monographs</i> , 2016, 57, 8.1-8.13.	5.0	45
735	Water mass characteristics and their temporal changes in a biological hotspot in the southern Chukchi Sea. <i>Biogeosciences</i> , 2016, 13, 2563-2578.	3.3	52

#	ARTICLE	IF	CITATIONS
736	Laboratory rearing of wild Arctic cod <i>Boreogadus saida</i> from egg to adulthood. Journal of Fish Biology, 2016, 88, 1241-1248.	1.6	13
737	Enhancement of Arctic storm activity in relation to permafrost degradation in eastern Siberia. International Journal of Climatology, 2016, 36, 4265-4275.	3.5	31
738	Climate change and projections for the Barents region: what is expected to change and what will stay the same?. Environmental Research Letters, 2016, 11, 054017.	5.2	28
739	The Climate of Early Mars. Annual Review of Earth and Planetary Sciences, 2016, 44, 381-408.	11.0	267
740	On assessment of the relationship between changes of sea ice extent and climate in the Arctic. International Journal of Climatology, 2016, 36, 3407-3412.	3.5	23
741	Stable boundary layer vertical scales in the Arctic: observations and analyses at Ny-Ålesund, Svalbard. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1250-1258.	2.7	13
742	An 11 000-year record of driftwood delivery to the western Queen Elizabeth Islands, Arctic Canada. Boreas, 2016, 45, 494-507.	2.4	12
743	Faster Arctic Sea Ice Retreat in CMIP5 than in CMIP3 due to Volcanoes. Journal of Climate, 2016, 29, 9179-9188.	3.2	30
744	Midlatitude atmospheric responses to Arctic sensible heat flux anomalies in Community Climate Model, Version 4. Geophysical Research Letters, 2016, 43, 12,270.	4.0	5
745	Arctic sea ice decline contributes to thinning lake ice trend in northern Alaska. Environmental Research Letters, 2016, 11, 074022.	5.2	22
746	Hydrographic responses to regional covariates across the Kara Sea. Journal of Geophysical Research: Oceans, 2016, 121, 8872-8887.	2.6	3
747	Large-scale numerical model of antarctic sea ice extent variations. Russian Meteorology and Hydrology, 2016, 41, 276-284.	1.3	0
748	Atmospheric observations at the Amundsen-Nobile Climate Change Tower in Ny-Ålesund, Svalbard. Rendiconti Lincei, 2016, 27, 7-18.	2.2	35
752	Distinct patterns of Arctic cod (<i>Boreogadus saida</i>) presence and absence in a shallow high Arctic embayment, revealed across open-water and ice-covered periods through acoustic telemetry. Polar Biology, 2016, 39, 1057-1068.	1.2	36
753	Post-glacial variability of sea ice cover, river run-off and biological production in the western Laptev Sea (Arctic Ocean) – A high-resolution biomarker study. Quaternary Science Reviews, 2016, 143, 133-149.	3.0	50
754	Microbes and the Arctic Ocean. Advances in Environmental Microbiology, 2016, , 341-381.	0.3	5
756	Effects of chronic dietary petroleum exposure on reproductive development in polar cod (<i>Boreogadus saida</i>). Aquatic Toxicology, 2016, 180, 196-208.	4.0	28
757	Mass Loss Rates of Fasting Polar Bears. Physiological and Biochemical Zoology, 2016, 89, 377-388.	1.5	69

#	ARTICLE	IF	CITATIONS
758	Aerial surveys suggest long-term stability in the seasonally ice-free Foxe Basin (Nunavut) polar bear population. <i>Marine Mammal Science</i> , 2016, 32, 181-201.	1.8	70
759	Estimating Arctic sea-ice shortwave albedo from MODIS data. <i>Remote Sensing of Environment</i> , 2016, 186, 32-46.	11.0	43
760	Detecting climate adaptation with mobile network data in Bangladesh: anomalies in communication, mobility and consumption patterns during cyclone Mahasen. <i>Climatic Change</i> , 2016, 138, 505-519.	3.6	49
761	On the Origin of the Dansgaard-Oeschger Events and Its Time Variability. <i>Springer Earth System Sciences</i> , 2016, , 23-47.	0.2	1
762	Demography of an apex predator at the edge of its range: impacts of changing sea ice on polar bears in Hudson Bay. <i>Ecological Applications</i> , 2016, 26, 1302-1320.	3.8	149
763	Evaluating suitability of Pol-SAR (TerraSAR-X, Radarsat-2) for automated sea ice classification. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
764	Linkages between Arctic summer circulation regimes and regional sea ice anomalies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7868-7880.	3.3	29
765	Evidence for ice-free summers in the late Miocene central Arctic Ocean. <i>Nature Communications</i> , 2016, 7, 11148.	12.8	96
766	Disparate acidification and calcium carbonate desaturation of deep and shallow waters of the Arctic Ocean. <i>Nature Communications</i> , 2016, 7, 12821.	12.8	16
767	Patterns of Sea Ice Retreat in the Transition to a Seasonally Ice-Free Arctic. <i>Journal of Climate</i> , 2016, 29, 6993-7008.	3.2	30
768	Persistent shift of the Arctic polar vortex towards the Eurasian continent in recent decades. <i>Nature Climate Change</i> , 2016, 6, 1094-1099.	18.8	207
769	Beyond bifurcation: using complex models to understand and predict abrupt climate change. <i>Dynamics and Statistics of the Climate System</i> , 0, , dzw004.	0.8	30
770	Cloud filtering with MERIS and AATSR for melt pond detection on Arctic sea ice. , 2016, , .		0
771	Sensitivity of Arctic warming to sea ice concentration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6927-6942.	3.3	13
772	Changes in Winter Warming Events in the Nordic Arctic Region. <i>Journal of Climate</i> , 2016, 29, 6223-6244.	3.2	109
773	Mesoscale Climatology and Variation of Surface Winds over the Chukchi-Beaufort Coastal Areas. <i>Journal of Climate</i> , 2016, 29, 2721-2739.	3.2	16
774	Numerical simulation of the motion of an ice keel in a stratified flow. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2016, 52, 108-115.	0.9	16
775	Detecting failure of climate predictions. <i>Nature Climate Change</i> , 2016, 6, 861-864.	18.8	21

#	ARTICLE	IF	CITATIONS
776	Highly cited Antarctic articles using Science Citation Index Expanded: a bibliometric analysis. <i>Scientometrics</i> , 2016, 109, 337-357.	3.0	30
777	The potential role of sea ice melt in the distribution of chromophoric dissolved organic matter in the Chukchi and Beaufort Seas. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 130, 28-42.	1.4	27
778	High-resolution IP25-based reconstruction of sea-ice variability in the western North Pacific and Bering Sea during the past 18,000 years. <i>Geo-Marine Letters</i> , 2016, 36, 101-111.	1.1	39
779	Improving Multiyear Ice Concentration Estimates With Reanalysis Air Temperatures. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 2602-2614.	6.3	27
780	Network modeling of Arctic melt ponds. <i>Cold Regions Science and Technology</i> , 2016, 124, 40-53.	3.5	4
781	Potential Influence of Arctic Sea Ice to the Interannual Variations of East Asian Spring Precipitation*. <i>Journal of Climate</i> , 2016, 29, 2797-2813.	3.2	58
782	Erosion and Flooding—Threats to Coastal Infrastructure in the Arctic: A Case Study from Herschel Island, Yukon Territory, Canada. <i>Estuaries and Coasts</i> , 2016, 39, 900-915.	2.2	83
783	Snow albedo feedback. <i>Progress in Physical Geography</i> , 2016, 40, 392-408.	3.2	66
784	Intercomparison of the temperature contrast between the arctic and equator in the pre- and post periods of the 1976/1977 regime shift. <i>Theoretical and Applied Climatology</i> , 2017, 127, 761-767.	2.8	2
785	Global coupled sea ice-ocean state estimation. <i>Climate Dynamics</i> , 2017, 49, 931-956.	3.8	26
786	Sources and distribution of sedimentary organic matter along the northern Bering and Chukchi Seas. <i>Journal of Environmental Sciences</i> , 2017, 52, 66-75.	6.1	2
787	Mitigation implications of an ice-free summer in the Arctic Ocean. <i>Earth's Future</i> , 2017, 5, 59-66.	6.3	8
788	Aerial application of herding agents to advance in-situ burning for oil spill response in the Arctic: A pilot study. <i>Cold Regions Science and Technology</i> , 2017, 135, 97-104.	3.5	22
789	Multifrequency Microwave Backscatter From a Highly Saline Snow Cover on Smooth First-Year Sea Ice: First-Order Theoretical Modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2177-2190.	6.3	8
790	Movements of a deep-water fish: establishing marine fisheries management boundaries in coastal Arctic waters. <i>Ecological Applications</i> , 2017, 27, 687-704.	3.8	50
791	Sustained disruption of narwhal habitat use and behavior in the presence of Arctic killer whales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2628-2633.	7.1	80
792	Holocene variability in sea ice cover, primary production, and Pacific Water inflow and climate change in the Chukchi and East Siberian Seas (Arctic Ocean). <i>Journal of Quaternary Science</i> , 2017, 32, 362-379.	2.1	86
793	Habitat degradation affects the summer activity of polar bears. <i>Oecologia</i> , 2017, 184, 87-99.	2.0	61

#	ARTICLE	IF	CITATIONS
794	The euphotic zone under Arctic Ocean sea ice: Vertical extents and seasonal trends. <i>Limnology and Oceanography</i> , 2017, 62, 1910-1934.	3.1	21
795	An intercomparison and validation of satellite-based surface radiative energy flux estimates over the Arctic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4829-4848.	3.3	39
796	Sea Ice Trends in Climate Models Only Accurate in Runs with Biased Global Warming. <i>Journal of Climate</i> , 2017, 30, 6265-6278.	3.2	114
797	Drivers of Arctic Ocean warming in CMIP5 models. <i>Geophysical Research Letters</i> , 2017, 44, 4263-4271.	4.0	26
798	Evidence for Holocene centennial variability in sea ice cover based on IP25 biomarker reconstruction in the southern Kara Sea (Arctic Ocean). <i>Geo-Marine Letters</i> , 2017, 37, 515-526.	1.1	7
799	Sea Ice Drift Tracking From Sequential SAR Images Using Accelerated-KAZE Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5174-5184.	6.3	39
800	Sea ice thickness and recent Arctic warming. <i>Geophysical Research Letters</i> , 2017, 44, 409-418.	4.0	72
801	Alice-Bob Physics: Coherent Solutions of Nonlocal KdV Systems. <i>Scientific Reports</i> , 2017, 7, 869.	3.3	169
802	Attributing Causes of 2015 Record Minimum Sea-Ice Extent in the Sea of Okhotsk. <i>Journal of Climate</i> , 2017, 30, 4693-4703.	3.2	13
803	The impacts of El Niño on the observed sea ice budget of West Antarctica. <i>Geophysical Research Letters</i> , 2017, 44, 6200-6208.	4.0	27
804	Climate change policy under polar amplification. <i>European Economic Review</i> , 2017, 94, 263-282.	2.3	23
805	Identification of di- and triterpenoid lipid tracers confirms the significant role of autoxidation in the degradation of terrestrial vascular plant material in the Canadian Arctic. <i>Organic Geochemistry</i> , 2017, 108, 43-50.	1.8	15
806	Characterizing the seasonal cycle of upper-ocean flows under multi-year sea ice. <i>Ocean Modelling</i> , 2017, 113, 115-130.	2.4	8
807	Influence of high-latitude atmospheric circulation changes on summertime Arctic sea ice. <i>Nature Climate Change</i> , 2017, 7, 289-295.	18.8	290
808	The missing Northern European winter cooling response to Arctic sea ice loss. <i>Nature Communications</i> , 2017, 8, 14603.	12.8	75
809	Climate change damages to Alaska public infrastructure and the economics of proactive adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E122-E131.	7.1	174
810	Colonization of newly forming Arctic sea ice by meiofauna: a case study for the future Arctic?. <i>Polar Biology</i> , 2017, 40, 1277-1288.	1.2	18
811	The Arctic Cryosphere in the Twenty-First Century. <i>Geographical Review</i> , 2017, 107, 69-88.	1.8	12

#	ARTICLE	IF	CITATIONS
812	Reducing the Impact of Thin Clouds on Arctic Ocean Sea Ice Concentration From FengYun-3 MERSI Data Single Cavity. IEEE Access, 2017, 5, 16341-16348.	4.2	4
813	Seasonal and inter-annual variations of Arctic cyclones and their linkage with Arctic sea ice and atmospheric teleconnections. Acta Oceanologica Sinica, 2017, 36, 1-7.	1.0	16
814	The response of the Bering Sea Gateway during the Mid-Pleistocene Transition. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 485, 974-985.	2.3	12
815	Antarctica, 1979â€“2016 sea ice extent: total versus regional trends, anomalies, and correlation with climatological variables. International Journal of Remote Sensing, 2017, 38, 7566-7584.	2.9	18
816	Arctic Ocean sea ice cover during the penultimate glacial and the last interglacial. Nature Communications, 2017, 8, 373.	12.8	95
817	Climate change policy under polar amplification. European Economic Review, 2017, 99, 93-112.	2.3	17
818	Semi-quantitative reconstruction of early to late Holocene spring and summer sea ice conditions in the northern Barents Sea. Journal of Quaternary Science, 2017, 32, 587-603.	2.1	36
819	Arctic sea ice in CMIP5 climate model projections and their seasonal variability. Acta Oceanologica Sinica, 2017, 36, 1-8.	1.0	10
820	Toward an ice-free Barents Sea. Geophysical Research Letters, 2017, 44, 8387-8395.	4.0	117
821	Sensitivity and nonlinearity of Eurasian winter temperature response to recent Arctic sea ice loss. Acta Oceanologica Sinica, 2017, 36, 52-58.	1.0	6
822	Monitoring ice thickness and elastic properties from the measurement of leaky guided waves: A laboratory experiment. Journal of the Acoustical Society of America, 2017, 142, 2873-2880.	1.1	13
823	Phase Changes and Seasonal Warming in Early Instrumental Temperature Records. Journal of Climate, 2017, 30, 6795-6821.	3.2	10
824	Short-term variability in late Holocene sea ice cover on the East Greenland Shelf and its driving mechanisms. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 485, 336-350.	2.3	36
825	Sea ice phenology and primary productivity pulses shape breeding success in Arctic seabirds. Scientific Reports, 2017, 7, 4500.	3.3	35
826	Modeling for Understanding v. Modeling for Numbers. Ecosystems, 2017, 20, 215-221.	3.4	29
827	Attribution of Extreme Events in Arctic Sea Ice Extent. Journal of Climate, 2017, 30, 553-571.	3.2	173
828	Tolerance rather than competition leads to spatial dominance of an Antarctic bryozoan. Journal of Experimental Marine Biology and Ecology, 2017, 486, 222-229.	1.5	13
829	Concentrations of organic and inorganic bound nutrients and chlorophyll a in the Eurasian Basin, Arctic Ocean, early autumn 2012. Regional Studies in Marine Science, 2017, 9, 69-75.	0.7	2

#	ARTICLE	IF	CITATIONS
830	Increasing nest predation will be insufficient to maintain polar bear body condition in the face of sea ice loss. <i>Global Change Biology</i> , 2017, 23, 1821-1831.	9.5	27
831	Contrasting Values of Forests and Ice in the Making of a Global Climate Agreement. , 0, , 219-244.		2
832	Exceptional Air Mass Transport and Dynamical Drivers of an Extreme Wintertime Arctic Warm Event. <i>Geophysical Research Letters</i> , 2017, 44, 12,028.	4.0	48
833	Methane fluxes in the high northern latitudes for 2005â€“2013 estimated using a Bayesian atmospheric inversion. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3553-3572.	4.9	59
834	Exploring the â€œsolid turbulenceâ€•of sea ice dynamics down to unprecedented small scales. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6071-6075.	2.6	6
835	Seasonal patterns in acoustic detections of marine mammals near Sachs Harbour, Northwest Territories. <i>Arctic Science</i> , 0, , 1-20.	2.3	8
836	Extreme Sea Ice Loss over the Arctic: An Analysis Based on Anomalous Moisture Transport. <i>Atmosphere</i> , 2017, 8, 32.	2.3	9
837	The Coastal Observing System for Northern and Arctic Seas (COSYNA). <i>Ocean Science</i> , 2017, 13, 379-410.	3.4	67
838	A simple model for the evolution of melt pond coverage on permeable Arctic sea ice. <i>Cryosphere</i> , 2017, 11, 1149-1172.	3.9	3
839	Prediction of Arctic Sea Ice Concentration Using a Fully Data Driven Deep Neural Network. <i>Remote Sensing</i> , 2017, 9, 1305.	4.0	71
840	Forecasting the outcome of multiple effects of climate change on northern common eiders. <i>Biological Conservation</i> , 2018, 220, 94-103.	4.1	12
841	A pilot(less) study on the use of an unmanned aircraft system for studying polar bears (<i>Ursus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.25	32
842	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
843	â€˜Arctic Crashes:â€™™ Revisiting the Human-Animal Disequilibrium Model in a Time of Rapid Change. <i>Human Ecology</i> , 2018, 46, 685-700.	1.4	12
844	Millennial-scale variability in Holocene aquatic productivity from Burial Lake, Arctic Alaska. <i>Quaternary Science Reviews</i> , 2018, 187, 220-234.	3.0	4
845	Simple Rules Govern the Patterns of Arctic Sea Ice Melt Ponds. <i>Physical Review Letters</i> , 2018, 120, 148701.	7.8	14
846	Variability in Rates of Coastal Change Along the Yukon Coast, 1951 to 2015. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 779-800.	2.8	50
847	Conservation Issues: Polar Seas. , 2018, , 149-157.		0

#	ARTICLE	IF	CITATIONS
848	Thin Sea Ice, Thick Snow, and Widespread Negative Freeboard Observed During NAO-CE2015 North of Svalbard. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1156-1176.	2.6	58
849	The Nexus between Sea Ice and Polar Emissions of Marine Biogenic Aerosols. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 61-81.	3.3	34
850	Large Eddy Simulation of Heat Entrainment Under Arctic Sea Ice. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 287-304.	2.6	10
852	Recent climate warming drives ecological change in a remote high-Arctic lake. <i>Scientific Reports</i> , 2018, 8, 6858.	3.3	27
853	Changes in phytoplankton community structure during wind-induced fall bloom on the central Chukchi shelf. <i>Polar Biology</i> , 2018, 41, 1279-1295.	1.2	28
854	Sea-ice variability in the subarctic North Pacific and adjacent Bering Sea during the past 25 ka: new insights from IP25 and Uk ²³⁷ proxy records. <i>Arktos</i> , 2018, 4, 1-19.	1.0	24
855	Effects of sea ice on Arctic biota: an emerging crisis discipline. <i>Biology Letters</i> , 2018, 14, 20170702.	2.3	36
856	Contrasting Local and Remote Impacts of Surface Heating on Polar Warming and Amplification. <i>Journal of Climate</i> , 2018, 31, 3155-3166.	3.2	33
857	Paleo-sea ice distribution and polynya variability on the Kara Sea shelf during the last 12 Åka. <i>Arktos</i> , 2018, 4, 1.	1.0	3
858	Solar cyclic variability can modulate winter Arctic climate. <i>Scientific Reports</i> , 2018, 8, 4864.	3.3	23
859	Narrowing the surface temperature range in CMIP5 simulations over the Arctic. <i>Theoretical and Applied Climatology</i> , 2018, 132, 1073-1088.	2.8	2
860	Frequency of spring dust weather in North China linked to sea ice variability in the Barents Sea. <i>Climate Dynamics</i> , 2018, 51, 4439-4450.	3.8	46
861	Japan Meteorological Agency/Meteorological Research Institute-Coupled Prediction System version 2 (JMA/MRI-CPS2): atmosphere-land-ocean-sea ice coupled prediction system for operational seasonal forecasting. <i>Climate Dynamics</i> , 2018, 50, 751-765.	3.8	54
862	Long-term ecological changes in marine mammals driven by recent warming in northwestern Alaska. <i>Global Change Biology</i> , 2018, 24, 490-503.	9.5	29
863	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
864	Modeling the metabolic costs of swimming in polar bears (<i>Ursus maritimus</i>). <i>Polar Biology</i> , 2018, 41, 491-503.	1.2	65
865	Global connectivity and cross-scale interactions create uncertainty for Blue Growth of Arctic fisheries. <i>Marine Policy</i> , 2018, 87, 321-330.	3.2	17
866	Sea-ice cover timing in the Pacific Arctic: The present and projections to mid-century by selected CMIP5 models. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 152, 22-34.	1.4	62

#	ARTICLE	IF	CITATIONS
867	Seasonal and latitudinal variations of surface fluxes at two Arctic terrestrial sites. <i>Climate Dynamics</i> , 2018, 51, 1793-1818.	3.8	21
868	The potential of sea ice leads as a predictor for summer Arctic sea ice extent. <i>Cryosphere</i> , 2018, 12, 3747-3757.	3.9	20
869	Results of the Study of Aerosol Characteristics in the Atmosphere of the Kara and Barents Seas in Summer and Autumn 2016. <i>Atmospheric and Oceanic Optics</i> , 2018, 31, 507-518.	1.3	8
870	Precursors of September Arctic Sea-Ice Extent Based on Causal Effect Networks. <i>Atmosphere</i> , 2018, 9, 437.	2.3	4
871	Changes in sea-surface temperature and atmospheric circulation patterns associated with reductions in Arctic sea ice cover in recent decades. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14149-14159.	4.9	11
872	Evaluation of the atmosphere–land–ocean–sea ice interface processes in the Regional Arctic System Model version 1 (RASMI) using local and globally gridded observations. <i>Geoscientific Model Development</i> , 2018, 11, 4817-4841.	3.6	6
873	Projected Freshening of the Arctic Ocean in the 21st Century. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 9232-9244.	2.6	43
874	Contrasting lake ice responses to winter climate indicate future variability and trends on the Alaskan Arctic Coastal Plain. <i>Environmental Research Letters</i> , 2018, 13, 125001.	5.2	11
875	Floe Size Effect on Wave–Ice Interactions: Possible Effects, Implementation in Wave Model, and Evaluation. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4779-4805.	2.6	47
876	Seasonality Drives Microbial Community Structure, Shaping both Eukaryotic and Prokaryotic Host–Viral Relationships in an Arctic Marine Ecosystem. <i>Viruses</i> , 2018, 10, 715.	3.3	26
877	Impact of the Surface Stress on the Volume and Freshwater Transport Through the Canadian Arctic Archipelago From a High-Resolution Numerical Simulation. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 9038-9060.	2.6	18
878	Habitats and movement patterns of white whales <i>Delphinapterus leucas</i> in Svalbard, Norway in a changing climate. <i>Movement Ecology</i> , 2018, 6, 21.	2.8	28
879	Impact of sea-ice reduction on the plankton community in the Pacific sector of the Arctic Ocean. <i>Oceanography in Japan</i> , 2018, 27, 217-230.	0.5	0
880	Non-linear effect of sea ice: Spectacled Eider survival declines at both extremes of the ice spectrum. <i>Ecology and Evolution</i> , 2018, 8, 11808-11818.	1.9	4
881	Interconnectivity Between Volume Transports Through Arctic Straits. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8714-8729.	2.6	10
882	Predictability of storm wave heights in the ice-free Beaufort Sea. <i>Ocean Dynamics</i> , 2018, 68, 1383-1402.	2.2	17
883	Interannual Variability of the Ice Cover and Primary Production of the Kara Sea. <i>Oceanology</i> , 2018, 58, 537-549.	1.2	1
884	Bright Prospects for Arctic Sea Ice Prediction on Subseasonal Time Scales. <i>Geophysical Research Letters</i> , 2018, 45, 9731-9738.	4.0	60

#	ARTICLE	IF	CITATIONS
885	Nitrogen Limitation of the Summer Phytoplankton and Heterotrophic Prokaryote Communities in the Chukchi Sea. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	42
886	How Asymmetries Between Arctic and Antarctic Climate Sensitivity Are Modified by the Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 13,031.	4.0	10
887	Drivers of Ice Algal Bloom Variability Between 1980 and 2015 in the Chukchi Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7037-7052.	2.6	10
888	First in situ estimations of small phytoplankton carbon and nitrogen uptake rates in the Kara, Laptev, and East Siberian seas. <i>Biogeosciences</i> , 2018, 15, 5503-5517.	3.3	20
889	Simulating the Last Interglacial Greenland stable water isotope peak: The role of Arctic sea ice changes. <i>Quaternary Science Reviews</i> , 2018, 198, 1-14.	3.0	16
890	The Physical System of the Arctic Ocean and Subarctic Seas in a Changing Climate. , 2018, , 25-40.		2
891	Can pelagic ciliates indicate vertical variation in the water quality status of western Arctic pelagic ecosystems?. <i>Marine Pollution Bulletin</i> , 2018, 133, 182-190.	5.0	12
892	Wave Attenuation Through an Arctic Marginal Ice Zone on 12 October 2015: 1. Measurement of Wave Spectra and Ice Features From Sentinel 1A. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3619-3634.	2.6	32
893	Inter-annual variation of the summer zooplankton community in the Chukchi Sea: spatial heterogeneity during a decade of rapid ice decline. <i>Polar Biology</i> , 2018, 41, 1827-1843.	1.2	14
894	Physical mechanism of spring and early summer drought over North America associated with the boreal warming. <i>Scientific Reports</i> , 2018, 8, 7533.	3.3	5
895	High resolution tidal model of Canadian Arctic Archipelago, Baffin and Hudson Bay. <i>Ocean Modelling</i> , 2018, 128, 15-47.	2.4	13
896	Impact of rheology on probabilistic forecasts of sea ice trajectories: application for search and rescue operations in the Arctic. <i>Cryosphere</i> , 2018, 12, 935-953.	3.9	28
897	Dissolved and particulate trace elements in late summer Arctic melt ponds. <i>Marine Chemistry</i> , 2018, 204, 70-85.	2.3	28
898	Incidence Angle Dependence of HH-Polarized C- and L-Band Wintertime Backscatter Over Arctic Sea Ice. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 6686-6698.	6.3	43
899	Evidence for Predictive Skill of High-Latitude Climate Due to Midsummer Sea Ice Extent Anomalies. <i>Geophysical Research Letters</i> , 2018, 45, 9114-9122.	4.0	9
900	The Polar WRF Downscaled Historical and Projected Twenty-First Century Climate for the Coast and Foothills of Arctic Alaska. <i>Frontiers in Earth Science</i> , 0, 5, .	1.8	13
901	Statistical Analysis of SSMIS Sea Ice Concentration Threshold at the Arctic Sea Ice Edge during Summer Based on MODIS and Ship-Based Observational Data. <i>Sensors</i> , 2018, 18, 1109.	3.8	6
902	Spaceborne Remote Sensing and Airborne In Situ Observations of Arctic Mixed-Phase Clouds. , 2018, , 121-150.		0

#	ARTICLE	IF	CITATIONS
903	The Effect of Arctic Dust on the Retrieval of Satellite Derived Sea and Ice Surface Temperatures. Scientific Reports, 2018, 8, 9727.	3.3	11
904	Chukchi Sea Ice Conditions for the Last Few Centuries: Reconstruction from Sedimentation Records. Doklady Earth Sciences, 2018, 480, 767-772.	0.7	4
905	Estimation of Annual Kara Sea Primary Production. Oceanology, 2018, 58, 369-380.	1.2	6
906	Reassessing Sea Ice Drift and Its Relationship to Long-Term Arctic Sea Ice Loss in Coupled Climate Models. Journal of Geophysical Research: Oceans, 2018, 123, 4338-4359.	2.6	26
907	Spatial and vertical variability of primary production in the Kara Sea in July and August 2016: the influence of the river plume and subsurface chlorophyll maxima. Polar Biology, 2018, 41, 563-578.	1.2	25
908	Modulation of Sea Ice Melt Onset and Retreat in the Laptev Sea by the Timing of Snow Retreat in the West Siberian Plain. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8691-8707.	3.3	9
909	Comparison between a multi-variate nudging method and the ensemble Kalman filter for sea-ice data assimilation. Journal of Glaciology, 2018, 64, 387-396.	2.2	9
910	Seasonality of aerosol optical properties in the Arctic. Atmospheric Chemistry and Physics, 2018, 18, 11599-11622.	4.9	80
911	Decoding Hosing and Heating Effects on Global Temperature and Meridional Circulations in a Warming Climate. Journal of Climate, 2018, 31, 9605-9623.	3.2	11
912	A Bird's-Eye View: Development of an Operational ARM Unmanned Aerial Capability for Atmospheric Research in Arctic Alaska. Bulletin of the American Meteorological Society, 2018, 99, 1197-1212.	3.3	46
913	The Arctic's sea ice cover: trends, variability, predictability, and comparisons to the Antarctic. Annals of the New York Academy of Sciences, 2019, 1436, 36-53.	3.8	134
914	The winter midlatitude-Arctic interaction: effects of North Atlantic SST and high-latitude blocking on Arctic sea ice and Eurasian cooling. Climate Dynamics, 2019, 52, 2981-3004.	3.8	69
915	Ensemble global warming simulations with idealized Antarctic meltwater input. Climate Dynamics, 2019, 52, 3223-3239.	3.8	14
916	Unexpectedly high dimethyl sulfide concentration in high-latitude Arctic sea ice melt ponds. Environmental Sciences: Processes and Impacts, 2019, 21, 1642-1649.	3.5	16
917	Minimal influence of reduced Arctic sea ice on coincident cold winters in mid-latitudes. Nature Climate Change, 2019, 9, 697-704.	18.8	199
918	Contributions of aerosol-cloud interactions to mid-Pliocene seasonally sea ice-free Arctic Ocean. Geophysical Research Letters, 2019, 46, 9920-9929.	4.0	15
919	Stability of the Atlantic Meridional Overturning Circulation: A Review and Synthesis. Journal of Geophysical Research: Oceans, 2019, 124, 5336-5375.	2.6	109
920	Remote Sensing of Sea Ice Thickness and Salinity With 0.5-2 GHz Microwave Radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8672-8684.	6.3	15

#	ARTICLE	IF	CITATIONS
921	A 40-y record reveals gradual Antarctic sea ice increases followed by decreases at rates far exceeding the rates seen in the Arctic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14414-14423.	7.1	351
922	Interannual Variability in the Absorption and Fluorescence Characteristics of Dissolved Organic Matter in the Canada Basin Polar Mixed Waters. Journal of Geophysical Research: Oceans, 2019, 124, 5258-5269.	2.6	26
923	An evaluation and implementation of the regional coupled ice-ocean model of the Baltic Sea. Ocean Dynamics, 2019, 69, 1-19.	2.2	3
924	Covariance of Optimal Parameters of an Arctic Sea Ice–Ocean Model. Monthly Weather Review, 2019, 147, 2579-2602.	1.4	7
925	Study on the Allocation of a Rescue Base in the Arctic. Symmetry, 2019, 11, 1073.	2.2	10
926	The Late Mesozoic–Cenozoic Arctic Ocean Climate and Sea Ice History: A Challenge for Past and Future Scientific Ocean Drilling. Paleoceanography and Paleoclimatology, 2019, 34, 1851-1894.	2.9	17
927	Reconstructing spring sea ice concentration in the Chukchi Sea over recent centuries: insights into the application of the PIP ₂₅ index. Environmental Research Letters, 2019, 14, 125004.	5.2	9
928	Simultaneous Parameter Optimization of an Arctic Sea Ice–Ocean Model by a Genetic Algorithm. Monthly Weather Review, 2019, 147, 1899-1926.	1.4	18
929	E3SMv0–HiLAT: A Modified Climate System Model Targeted for the Study of High-Latitude Processes. Journal of Advances in Modeling Earth Systems, 2019, 11, 2814-2843.	3.8	9
930	Cruising the marginal ice zone: climate change and Arctic tourism. Polar Geography, 2019, 42, 215-235.	1.9	52
931	Biogenic and anthropogenic sources of aerosols at the High Arctic site Villum Research Station. Atmospheric Chemistry and Physics, 2019, 19, 10239-10256.	4.9	25
932	Potential Implications of Changing Photosynthetic End-Products of Phytoplankton Caused by Sea Ice Conditions in the Northern Chukchi Sea. Frontiers in Microbiology, 2019, 10, 2274.	3.5	4
933	Improving oil spill trajectory modelling in the Arctic. Marine Pollution Bulletin, 2019, 140, 65-74.	5.0	43
934	A 400-year reconstruction of wintertime Arctic sea-ice extent using a high-elevation, mid-latitude tree-ring record. International Journal of Biometeorology, 2019, 63, 1217-1229.	3.0	2
935	Ice Surface Temperatures in the Arctic Region. , 2019, , 151-184.		4
936	A key factor initiating surface ablation of Arctic sea ice: earlier and increasing liquid precipitation. Cryosphere, 2019, 13, 1233-1246.	3.9	21
937	IcePAC – a probabilistic tool to study sea ice spatio-temporal dynamics: application to the Hudson Bay area. Cryosphere, 2019, 13, 451-468.	3.9	2
938	Impact of assimilating sea ice concentration, sea ice thickness and snow depth in a coupled ocean–sea ice modelling system. Cryosphere, 2019, 13, 491-509.	3.9	31

#	ARTICLE	IF	CITATIONS
939	Body condition impacts blood and muscle oxygen storage capacity of free-living beluga whales (<i>Delphinapterus leucas</i>). Journal of Experimental Biology, 2019, 222, .	1.7	14
940	Acoustic recordings and modeling under seasonally varying sea ice. Scientific Reports, 2019, 9, 8323.	3.3	16
941	A Spring Barrier for Regional Predictions of Summer Arctic Sea Ice. Geophysical Research Letters, 2019, 46, 5937-5947.	4.0	29
942	Comparison of Phytoplankton Communities Between Melt Ponds and Open Water in the Central Arctic Ocean. Journal of Ocean University of China, 2019, 18, 573-579.	1.2	1
943	Sources and burial fluxes of sedimentary organic carbon in the northern Bering Sea and the northern Chukchi Sea in response to global warming. Science of the Total Environment, 2019, 679, 97-105.	8.0	6
944	Complex Microbial Communities Drive Iron and Sulfur Cycling in Arctic Fjord Sediments. Applied and Environmental Microbiology, 2019, 85, .	3.1	58
945	Reconstruction of ice conditions in the northern Chukchi Sea during recent centuries: Geochemical proxy compared with observed data. Quaternary International, 2019, 522, 23-37.	1.5	17
946	Nonuniform Contribution of Internal Variability to Recent Arctic Sea Ice Loss. Journal of Climate, 2019, 32, 4039-4053.	3.2	69
947	Progressing emergent constraints on future climate change. Nature Climate Change, 2019, 9, 269-278.	18.8	195
948	Prioritization of landscape connectivity for the conservation of Peary caribou. Ecology and Evolution, 2019, 9, 2189-2205.	1.9	13
949	Temporal variability and trends of sea ice in the Kara Sea and their relationship with atmospheric factors. Polar Science, 2019, 20, 136-147.	1.2	16
950	Variation in late holocene marine environments in the Canadian Arctic Archipelago: Evidence from ringed seal bone collagen stable isotope compositions. Quaternary Science Reviews, 2019, 211, 136-155.	3.0	15
951	Simulated ballast water accumulation along Arctic shipping routes. Marine Policy, 2019, 103, 9-18.	3.2	4
952	Arctic Sea Ice Classification Using Microwave Scatterometer and Radiometer Data During 2002–2017. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5319-5328.	6.3	30
953	A Global 3D Ocean Model for PCBs: Benchmark Compounds for Understanding the Impacts of Global Change on Neutral Persistent Organic Pollutants. Global Biogeochemical Cycles, 2019, 33, 469-481.	4.9	31
954	Past and future interannual variability in Arctic sea ice in coupled climate models. Cryosphere, 2019, 13, 113-124.	3.9	23
955	Image processing for pancake ice detection and size distribution computation. International Journal of Remote Sensing, 2019, 40, 3368-3383.	2.9	7
956	Phenology of the Pacific Walrus (<i>Odobenus rosmarus divergens</i>) in Coastal Waters of Wrangel Island: The Impact of the Sea Ice Dynamics. Biology Bulletin, 2019, 46, 1156-1164.	0.5	1

#	ARTICLE	IF	CITATIONS
957	Demand Analysis and Application Mode of Highly Elliptical Orbit SAR Satellite. , 2019, , .		0
958	Gridded Visibility Products over Marine Environments Based on Artificial Neural Network Analysis. Applied Sciences (Switzerland), 2019, 9, 4487.	2.5	7
959	Antarctic Sea Ice Proxies from Marine and Ice Core Archives Suitable for Reconstructing Sea Ice over the Past 2000 Years. Geosciences (Switzerland), 2019, 9, 506.	2.2	35
960	Arctic and Antarctic Sea Ice Change: Contrasts, Commonalities, and Causes. Annual Review of Marine Science, 2019, 11, 187-213.	11.6	71
961	Global Impacts of Arctic Sea Ice Loss Mediated by the Atlantic Meridional Overturning Circulation. Geophysical Research Letters, 2019, 46, 944-952.	4.0	51
962	Exploitation of trans-Arctic maritime transportation. Journal of Cleaner Production, 2019, 212, 960-973.	9.3	35
963	The Mechanisms of the Atlantic Meridional Overturning Circulation Slowdown Induced by Arctic Sea Ice Decline. Journal of Climate, 2019, 32, 977-996.	3.2	68
964	Melting Arctic sea ice: Implications for nonindigenous species (NIS) spread in the United States. Environmental Science and Policy, 2019, 91, 81-91.	4.9	5
965	Assessing patterns of diversity, bathymetry and distribution at the poles using Hydrozoa (Cnidaria) as a model group. Hydrobiologia, 2019, 833, 25-51.	2.0	10
966	Compounding tropical and stratospheric forcing of the record low Antarctic sea-ice in 2016. Nature Communications, 2019, 10, 13.	12.8	111
967	Horizontal and vertical distribution of polycystine radiolarians in the western Arctic Ocean during the late summers of 2013 and 2015. Polar Biology, 2019, 42, 285-305.	1.2	6
968	Fingerprints of internal drivers of Arctic sea ice loss in observations and model simulations. Nature Geoscience, 2019, 12, 28-33.	12.9	121
969	Kelp belt ecosystem response to a changing environment in Kongsfjorden (Spitsbergen). Ocean and Coastal Management, 2019, 167, 60-77.	4.4	7
970	Erosional Responses of Eastern and Western Coastal Regions of India, Under Global, Regional, and Local Scale Causes. , 2019, , 155-179.		2
971	Seasonal and spatial variability of sea ice and phytoplankton biomarker flux in the Chukchi sea (western Arctic Ocean). Progress in Oceanography, 2019, 171, 22-37.	3.2	26
972	Natural variability of Southern Ocean convection as a driver of observed climate trends. Nature Climate Change, 2019, 9, 59-65.	18.8	98
973	Dynamical Downscaling of the Arctic Climate with a Focus on Polar Cyclone Climatology. Atmosphere - Ocean, 2019, 57, 41-60.	1.6	5
974	Ocean Wave Interactions with Sea Ice: A Reappraisal. Annual Review of Fluid Mechanics, 2020, 52, 37-60.	25.0	154

#	ARTICLE	IF	CITATIONS
975	Impact of Arctic amplification on declining spring dust events in East Asia. <i>Climate Dynamics</i> , 2020, 54, 1913-1935.	3.8	39
976	Big-data-driven Arctic maritime transportation. , 2020, , 301-324.		0
977	Sea ice loss increases genetic isolation in a high Arctic ungulate metapopulation. <i>Global Change Biology</i> , 2020, 26, 2028-2041.	9.5	20
978	Holocene Interactions Between Glacier Retreat, Sea Ice Formation, and Atlantic Water Advection at the Inner Northeast Greenland Continental Shelf. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA004019.	2.9	28
979	Trends, abrupt shifts and interannual variability of the Arctic Wintertime Seasonal Sea Ice from 1979 to 2019. <i>Annals of Glaciology</i> , 2020, 61, 441-453.	1.4	7
980	Age- and sex-specific movement, behaviour and habitat-use patterns of bowhead whales (<i>Balaena</i>) Tj ETQq1 1 0.784314 rgBT /Overlook	1.2	14
981	Snow Topography on Undeformed Arctic Sea Ice Captured by an Idealized "Snow Dune" Model. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016034.	2.6	1
982	Rapid change of the Arctic climate system and its global influences - Overview of GRENE Arctic climate change research project (2011"2016). <i>Polar Science</i> , 2020, 25, 100548.	1.2	23
983	Short timeframe changes of environmental impacts on summer phytoplankton in the Chukchi Sea and surrounding areas in a regional scaling. <i>Ecological Indicators</i> , 2020, 117, 106693.	6.3	9
984	Spatial and Temporal Variations of Arctic Sea Ice From 2002 to 2017. <i>Earth and Space Science</i> , 2020, 7, e2020EA001278.	2.6	8
985	Disentangling the Coupled Atmosphere"Ocean"ke Interactions Driving Arctic Sea Ice Response to CO ₂ Increases. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001902.	3.8	2
986	Sedimentary records of bulk organic matter and lipid biomarkers in the Bering Sea: A centennial perspective of sea-ice variability and phytoplankton community. <i>Marine Geology</i> , 2020, 429, 106308.	2.1	4
987	The summer soundscape of a shallow-water estuary used by beluga whales in the western Canadian Arctic. <i>Arctic Science</i> , 2020, 6, 361-383.	2.3	8
988	Biomarker Distributions in (Sub)"Arctic Surface Sediments and Their Potential for Sea Ice Reconstructions. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008629.	2.5	16
989	Deglacial to Holocene variability in surface water characteristics and major floods in the Beaufort Sea. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	10
990	Drier tropical and subtropical Southern Hemisphere in the mid-Pliocene Warm Period. <i>Scientific Reports</i> , 2020, 10, 13458.	3.3	25
991	Transient benefits of climate change for a high"Arctic polar bear (<i>Ursus maritimus</i>) subpopulation. <i>Global Change Biology</i> , 2020, 26, 6251-6265.	9.5	23
992	Snow cover change and its relationship with land surface temperature and vegetation in northeastern North America from 2000 to 2017. <i>International Journal of Remote Sensing</i> , 2020, 41, 8453-8474.	2.9	16

#	ARTICLE	IF	CITATIONS
993	Adaptation of Willows in River Lowlands to Flooding under Arctic Amplification: Evidence from Nitrogen Content and Stable Isotope Dynamics. <i>Wetlands</i> , 2020, 40, 2413-2424.	1.5	1
994	Pacific walrus (<i>Odobenus rosmarus divergens</i>) reproductive capacity changes in three time frames during 1975–2010. <i>Polar Biology</i> , 2020, 43, 861-875.	1.2	5
995	Understanding Regional and Seasonal Variability Is Key to Gaining a Pan-Arctic Perspective on Arctic Ocean Freshening. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	31
996	Bowhead whales use two foraging strategies in response to fine-scale differences in zooplankton vertical distribution. <i>Scientific Reports</i> , 2020, 10, 20249.	3.3	17
997	Divergence of Arctic shrub growth associated with sea ice decline. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33334-33344.	7.1	43
998	Life on the ice-edge: Paleoenvironmental significance of the radiolarian species <i>Amphimelissa setosa</i> in the northern hemisphere. <i>Quaternary Science Reviews</i> , 2020, 248, 106565.	3.0	1
999	Early predictors of seasonal Arctic sea-ice volume loss: the impact of spring and early-summer cloud radiative conditions. <i>Annals of Glaciology</i> , 2020, 61, 392-400.	1.4	3
1000	Abrupt climate change: Exploring the implications of a wild card. <i>Futures</i> , 2020, 124, 102641.	2.5	2
1001	MYI Floes Identification Based on the Texture and Shape Feature from Dual-Polarized Sentinel-1 Imagery. <i>Remote Sensing</i> , 2020, 12, 3221.	4.0	15
1002	Ice Concentration Retrieval from the Analysis of Microwaves: A New Methodology Designed for the Copernicus Imaging Microwave Radiometer. <i>Remote Sensing</i> , 2020, 12, 1060.	4.0	14
1003	Shifts in the physical environment in the Pacific Arctic and implications for ecological timing and conditions. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 177, 104802.	1.4	34
1004	Heat Flow on the U.S. Beaufort Margin, Arctic Ocean: Implications for Ocean Warming, Methane Hydrate Stability, and Regional Tectonics. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC008933.	2.5	4
1005	Review of spatial and inter-annual changes in the zooplankton community structure in the western Arctic Ocean during summers of 2008–2017. <i>Progress in Oceanography</i> , 2020, 186, 102391.	3.2	10
1006	Interannual Variability of Primary Production in the Laptev Sea. <i>Oceanology</i> , 2020, 60, 50-61.	1.2	7
1007	Role of Atmospheric Variability in Driving the “Warm” Arctic, Cold “Continental” Pattern Over the North America Sector and Sea Ice Variability Over the Chukchi–Bering Sea. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088599.	4.0	16
1008	Evolution of Backscattering Coefficients of Drifting Multi-Year Sea Ice during End of Melting and Onset of Freeze-up in the Western Beaufort Sea. <i>Remote Sensing</i> , 2020, 12, 1378.	4.0	0
1009	Phytoplankton and dimethylsulfide dynamics at two contrasting Arctic ice edges. <i>Biogeosciences</i> , 2020, 17, 1557-1581.	3.3	7
1010	Prediction of monthly Arctic sea ice concentrations using satellite and reanalysis data based on convolutional neural networks. <i>Cryosphere</i> , 2020, 14, 1083-1104.	3.9	48

#	ARTICLE	IF	CITATIONS
1011	Arctic Sea Ice Variability During the Instrumental Era. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086843.	4.0	32
1012	Stochastic Parameterizations and the Climate Response to External Forcing: An Experiment With EC-Earth. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085951.	4.0	1
1013	Comparison of ice and wind-wave modules in WAVEWATCH III® in the Barents Sea. <i>Cold Regions Science and Technology</i> , 2020, 172, 103008.	3.5	6
1014	Development of a Shallow-Depth Soil Temperature Estimation Model Based on Air Temperatures and Soil Water Contents in a Permafrost Area. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1058.	2.5	5
1015	Fjords as Aquatic Critical Zones (ACZs). <i>Earth-Science Reviews</i> , 2020, 203, 103145.	9.1	104
1016	Spatial and temporal variability in ringed seal (<i>Pusa hispida</i>) stable isotopes in the Beaufort Sea. <i>Ecology and Evolution</i> , 2020, 10, 4178-4192.	1.9	13
1017	Variability in Benthic Ecosystem Functioning in Arctic Shelf and Deep-Sea Sediments: Assessments by Benthic Oxygen Uptake Rates and Environmental Drivers. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	1
1018	Nonstationary Teleconnection Between the Pacific Ocean and Arctic Sea Ice. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085666.	4.0	24
1019	Analysis of Intraseasonal Oscillation Characteristics of Arctic Summer Sea Ice. <i>Geophysical Research Letters</i> , 2020, 47, no.	4.0	3
1020	The observed recent surface air temperature development across Svalbard and concurring footprints in local sea ice cover. <i>International Journal of Climatology</i> , 2020, 40, 5246-5265.	3.5	47
1021	A Long-Term Passive Microwave Snowoff Record for the Alaska Region 1988–2016. <i>Remote Sensing</i> , 2020, 12, 153.	4.0	10
1022	Seafloor biodiversity of Canada's three oceans: Patterns, hotspots and potential drivers. <i>Diversity and Distributions</i> , 2020, 26, 226-241.	4.1	13
1023	More robust changes in the East Asian winter monsoon from 1.5 to 2.0°C global warming targets. <i>International Journal of Climatology</i> , 2020, 40, 4731-4749.	3.5	10
1024	The annual cycle of landfast ice in the eastern Bering Sea. <i>Cold Regions Science and Technology</i> , 2020, 174, 103059.	3.5	4
1025	Critical Percolation Threshold Restricts Late-Summer Arctic Sea Ice Melt Pond Coverage. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC016029.	2.6	4
1026	Novel insights into serodiagnosis and epidemiology of <i>Erysipelothrix rhusiopathiae</i> , a newly recognized pathogen in muskoxen (<i>Ovibos moschatus</i>). <i>PLoS ONE</i> , 2020, 15, e0231724.	2.5	14
1027	The coastal Arctic marine soundscape near Ulukhaktok, Northwest Territories, Canada. <i>Polar Biology</i> , 2020, 43, 623-636.	1.2	19
1028	Arctic Sea Ice in CMIP6. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086749.	4.0	304

#	ARTICLE	IF	CITATIONS
1029	Faecal glucocorticoid metabolites as a measure of adrenocortical activity in polar bears (<i>Ursus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 74.		
1030	Sea Ice Thickness and Elastic Properties From the Analysis of Multimodal Guided Wave Propagation Measured With a Passive Seismic Array. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015709.	2.6	19
1031	Bringing polar topics into the classroom: Teacher knowledge, practices, and needs. <i>Journal of Geoscience Education</i> , 2021, 69, 113-122.	1.4	4
1032	Biogeochemistry and microbiology of high Arctic marine sediment ecosystemsâ€”Case study of Svalbard fjords. <i>Limnology and Oceanography</i> , 2021, 66, S273.	3.1	15
1033	Statistical physics approaches to the complex Earth system. <i>Physics Reports</i> , 2021, 896, 1-84.	25.6	79
1034	Potential exposure of beluga and bowhead whales to underwater noise from ship traffic in the Beaufort and Chukchi Seas. <i>Ocean and Coastal Management</i> , 2021, 204, 105473.	4.4	18
1035	How widespread is the usage of the Northern Sea Route as a commercially viable shipping route? A statistical analysis of ship transits from 2011 to 2018 based on empirical data. <i>Marine Policy</i> , 2021, 125, 104300.	3.2	6
1036	Remote Influence of the Midlatitude South Atlantic Variability in Spring on Antarctic Summer Sea Ice. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	8
1037	TanDEM-X multiparametric data features in sea ice classification over the Baltic sea. <i>Geo-Spatial Information Science</i> , 2021, 24, 313-332.	5.3	4
1038	Observation of on-ice wind waves under grease ice in the western Arctic Ocean. <i>Polar Science</i> , 2021, 27, 100567.	1.2	16
1039	Outdoor air pollutants. , 2021, , 491-554.		5
1040	Arctic sea ice variability and trends in the last four decades: role of ocean-atmospheric forcing. , 2021, , 301-324.		1
1041	Effective sea ice area based on a thickness threshold. <i>Climate Dynamics</i> , 2021, 56, 3541-3552.	3.8	1
1042	Intercomparison of Arctic Sea Ice Backscatter and Ice Type Classification Using Ku-Band and C-Band Scatterometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-18.	6.3	7
1043	From the northern subpolar oceans to the Arctic and its retreating sea ice. , 2021, , 241-301.		0
1044	Arctic biodiversity amidst looming climate apocalypse: current status and way forward. , 2021, , 213-255.		0
1045	Not Just Sea Ice: Other Factors Important to Nearâ€”Inertial Wave Generation in the Arctic Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090508.	4.0	12
1046	Simulating the mid-Holocene, last interglacial and mid-Pliocene climate with EC-Earth3-LR. <i>Geoscientific Model Development</i> , 2021, 14, 1147-1169.	3.6	32

#	ARTICLE	IF	CITATIONS
1047	Accelerated decline of summer Arctic sea ice during 1850–2017 and the amplified Arctic warming during the recent decades. <i>Environmental Research Letters</i> , 2021, 16, 034015.	5.2	34
1048	Multi-Aspect Assessment of CMIP6 Models for Arctic Sea Ice Simulation. <i>Journal of Climate</i> , 2021, 34, 1515-1529.	3.2	20
1049	Assessment of decadal variability in sea ice in the Community Earth System Model against a long-term regional observational record: implications for the predictability of an ice-free Arctic. <i>Journal of Climate</i> , 2021, , .	3.2	4
1050	Improved Seismic Monitoring with OBS Deployment in the Arctic: A Pilot Study from Offshore Western Svalbard. <i>Seismological Research Letters</i> , 2021, 92, 2705-2717.	1.9	6
1051	Pollutants from shipping - new environmental challenges in the subarctic and the Arctic Ocean. <i>Marine Pollution Bulletin</i> , 2021, 164, 112004.	5.0	15
1052	Decadal phase shift of summertime Arctic dipole pattern and its nonlinear effect on sea ice extent. <i>International Journal of Climatology</i> , 2021, 41, 4732-4742.	3.5	5
1053	Response of Arctic biodiversity and ecosystem to environmental changes: Findings from the ArCS project. <i>Polar Science</i> , 2021, 27, 100533.	1.2	8
1054	Multi-scale temporal variability in biological-physical associations in the NE Chukchi Sea. <i>Polar Biology</i> , 2021, 44, 837-855.	1.2	8
1055	Background and activities of the Arctic Challenge for Sustainability (ArCS) project. <i>Polar Science</i> , 2021, 27, 100647.	1.2	2
1056	Partitioning uncertainty in projections of Arctic sea ice. <i>Environmental Research Letters</i> , 2021, 16, 044002.	5.2	34
1057	Arctic Ocean Freshwater in CMIP6 Ensembles: Declining Sea Ice, Increasing Ocean Storage and Export. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016930.	2.6	20
1058	An Assessment of the Antarctic Sea Ice Mass Budget Simulation in CMIP6 Historical Experiment. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	5
1060	Marginal ice zone fraction benchmarks sea ice and climate model skill. <i>Nature Communications</i> , 2021, 12, 2221.	12.8	14
1061	Anomalous arctic polar vortex-induced spring vegetation variability and lagged productivity responses in China. <i>Theoretical and Applied Climatology</i> , 2021, 145, 261-272.	2.8	2
1062	Assimilation of SMOS sea ice thickness in the regional ice prediction system. <i>International Journal of Remote Sensing</i> , 2021, 42, 4583-4606.	2.9	3
1063	Rapid Arctic warming and its link to the waviness and strength of the westerly jet stream over West Asia. <i>Global and Planetary Change</i> , 2021, 199, 103447.	3.5	19
1064	Assessment and Ranking of Climate Models in Arctic Sea Ice Cover Simulation: From CMIP5 to CMIP6. <i>Journal of Climate</i> , 2021, 34, 3609-3627.	3.2	33
1065	The Role of Ice Cover in the Formation of Bottom Sediment Chemical Composition on the East Siberian Shelf. <i>Geochemistry International</i> , 2021, 59, 585-598.	0.7	9

#	ARTICLE	IF	CITATIONS
1066	Effects of Geophony and Anthrophony on the Underwater Acoustic Environment in the East Siberian Sea, Arctic Ocean. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093097.	4.0	8
1067	Unravelling Surface Seawater DMS Concentration and Sea-to-Air Flux Changes After Sea Ice Retreat in the Western Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006796.	4.9	6
1068	Warming amplification over the Arctic Pole and Third Pole: Trends, mechanisms and consequences. <i>Earth-Science Reviews</i> , 2021, 217, 103625.	9.1	157
1069	Persistent freshening of the Arctic Ocean and changes in the North Atlantic salinity caused by Arctic sea ice decline. <i>Climate Dynamics</i> , 2021, 57, 2995-3013.	3.8	13
1070	Relative contributions of internal atmospheric variability and surface processes to the interannual variations in wintertime Arctic surface air temperatures. <i>Journal of Climate</i> , 2021, , 1-48.	3.2	4
1071	Poleward shifts in marine fisheries under Arctic warming. <i>Environmental Research Letters</i> , 2021, 16, 074057.	5.2	17
1072	Underwater sound levels in the Canadian Arctic, 2014–2019. <i>Marine Pollution Bulletin</i> , 2021, 168, 112437.	5.0	13
1073	Underwater Sound Levels in the Arctic: Filling Knowledge Gaps. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094607.	4.0	2
1074	Analysis of Sea Ice Timing and Navigability along the Arctic Northeast Passage from 2000 to 2019. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 728.	2.6	6
1075	Dimethyl Sulfide-Induced Increase in Cloud Condensation Nuclei in the Arctic Atmosphere. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006969.	4.9	20
1077	Role of sea level pressure in variations of the Canadian Arctic Archipelago throughflow. <i>Advances in Climate Change Research</i> , 2021, 12, 539-552.	5.1	2
1078	Two-Stream Convolutional Long- and Short-Term Memory Model Using Perceptual Loss for Sequence-to-Sequence Arctic Sea Ice Prediction. <i>Remote Sensing</i> , 2021, 13, 3413.	4.0	8
1079	Inferring future warming in the Arctic from the observed global warming trend and CMIP6 simulations. <i>Advances in Climate Change Research</i> , 2021, 12, 499-507.	5.1	23
1080	Winter Snow Depth on Arctic Sea Ice From Satellite Radiometer Measurements (2003–2020): Regional Patterns and Trends. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094541.	4.0	8
1082	Impacts of atmospheric and oceanic factors on monthly and interannual variations of polynya in the East Siberian Sea and Chukchi Sea. <i>Advances in Climate Change Research</i> , 2021, 12, 527-538.	5.1	4
1083	Interannual and decadal variability of Arctic summer sea ice associated with atmospheric teleconnection patterns during 1850-2017. <i>Journal of Climate</i> , 2021, , 1-89.	3.2	3
1084	New evaluation of species-specific biogenic silica flux of radiolarians (Rhizaria) in the western Arctic Ocean using microfossil X-ray computed tomography. <i>Limnology and Oceanography</i> , 2021, 66, 3901-3915.	3.1	1
1085	The Winter Heat Budget of Sea Ice in Kotzebue Sound: Residual Ocean Heat and the Seasonal Roles of River Outflow. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016784.	2.6	5

#	ARTICLE	IF	CITATIONS
1086	Assessment of Empirical and Semi-Analytical Algorithms Using MODIS-Aqua for Representing In-Situ Chromophoric Dissolved Organic Matter (CDOM) in the Bering, Chukchi, and Western Beaufort Seas of the Pacific Arctic Region. <i>Remote Sensing</i> , 2021, 13, 3673.	4.0	4
1087	Water mass distribution in the northern Bering and southern Chukchi seas using light absorption of chromophoric dissolved organic matter. <i>Progress in Oceanography</i> , 2021, 197, 102641.	3.2	9
1088	Substantial Sub-Surface Chlorophyll Patch Sustained by Vertical Nutrient Fluxes in Fram Strait Observed With an Autonomous Underwater Vehicle. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	3
1089	Spatial Patterns of Macromolecular Composition of Phytoplankton in the Arctic Ocean. <i>Water (Switzerland)</i> , 2021, 13, 2495.	2.7	2
1090	Unauthorized landfills of solid household and industrial wastes detection in the Arctic and Subarctic territories using remote sensing technologies. , 2021, , .		0
1091	Machine learning feature analysis illuminates disparity between E3SM climate models and observed climate change. <i>Journal of Computational and Applied Mathematics</i> , 2021, 395, 113451.	2.0	6
1092	Life without ice: Perceptions of environmental impacts on marine resources and subsistence users of St. Lawrence Island. <i>Ocean and Coastal Management</i> , 2021, 212, 105819.	4.4	3
1093	Mixing in the Arctic Ocean. , 2022, , 275-299.		2
1094	Using claws to compare reproduction, stress and diet of female bearded and ringed seals in the Bering and Chukchi seas, Alaska, between 1953â€“1968 and 1998â€“2014. , 2021, 9, coaa115.		13
1095	Arctic sea ice. , 2021, , 111-122.		1
1096	Effects of Pollution on Fish. , 2021, , 39-60.		0
1097	Probability assessments of an ice-free Arctic: Comparing statistical and climate model projections. <i>Journal of Econometrics</i> , 2022, 231, 520-534.	6.5	21
1102	Ringed seal (<i>Pusa hispida</i>) seasonal movements, diving, and haul-out behavior in the Beaufort, Chukchi, and Bering Seas (2011â€“2017). <i>Ecology and Evolution</i> , 2020, 10, 5595-5616.	1.9	22
1103	Variability of Surface Temperature and Albedo. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 223-294.	0.1	2
1104	Characteristics and Variability of the Sea Ice Cover. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 295-363.	0.1	3
1105	Mechanisms of the recent sea ice decay in the Arctic Ocean related to the Pacific-to-Atlantic pathway. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 161-169.	0.2	2
1106	The case for global warming in the Arctic. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 13-23.	0.2	9
1107	Recent sea ice ecosystem in the Arctic Ocean: a review. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 57-71.	0.2	9

#	ARTICLE	IF	CITATIONS
1108	Challenges Performing Risk Assessment in the Arctic. , 2011, , 521-536.		5
1109	Membrane Photobioreactor as a Device to Increase CO2 Mitigation by Microalgae. , 2013, , 241-258.		5
1110	Dynamical Processes in the Arctic Atmosphere. Springer Polar Sciences, 2020, , 1-51.	0.1	5
1111	Global Climate Model Simulations of North America. Regional Climate Studies, 2014, , 167-200.	1.2	1
1112	Herschel Island (Qikiqtaryuk), Yukonâ€™s Arctic Island. World Geomorphological Landscapes, 2017, , 335-348.	0.3	5
1113	Climate Model Confirmation: From Philosophy to Predicting Climate in the Real World. , 2018, , 325-359.		14
1114	Emissions to the Air. , 2016, , 169-227.		3
1115	â€œItâ€™s Cold, but Not Cold Enoughâ€ Observing Ice and Climate Change in Gambell, Alaska, in IPY 2007â€“2008 and Beyond. , 2010, , 81-114.		30
1116	Cumulative Effects of Rapid Land-Cover and Land-Use Changes on the Yamal Peninsula, Russia. , 2010, , 207-236.		15
1117	Global Climate Models and 20th and 21st Century Arctic Climate Change. Atmospheric and Oceanographic Sciences Library, 2012, , 405-436.	0.1	13
1118	Conclusion and Perspectives: Sea Ice Drift, Deformation and Fracturing in a Changing Arctic. SpringerBriefs in Earth Sciences, 2013, , 73-83.	0.5	1
1119	Recent Variability in Sea Ice Cover, Age, and Thickness in the Pacific Arctic Region. , 2014, , 31-63.		25
1120	Carbon Biogeochemistry of the Western Arctic: Primary Production, Carbon Export and the Controls on Ocean Acidification. , 2014, , 223-268.		15
1121	Numerical investigation of ice breaking by a high-pressure bubble based on a coupled BEM-PD model. Journal of Fluids and Structures, 2020, 96, 103016.	3.4	16
1122	Reconstructing ice conditions in the southern Chukchi Sea during the last millennium based on chemical composition of sediments and diatom assemblages. Marine Geology, 2020, 427, 106220.	2.1	9
1123	Changes of climate regimes during the last millennium and the twenty-first century simulated by the Community Earth System Model. Quaternary Science Reviews, 2018, 180, 42-56.	3.0	24
1124	Holocene marine diatom records of environmental change. , 0, , 401-423.		2
1127	Arctic sea ice at record low. Nature, 0, , .	27.8	4

#	ARTICLE	IF	CITATIONS
1129	Climate engineering responses to climate emergencies. IOP Conference Series: Earth and Environmental Science, 2009, 6, 452015.	0.3	14
1131	Numerical study of solitary wave attenuation in a fragmented ice sheet. Physical Review Fluids, 2017, 2, .	2.5	18
1132	Cryospheric Environments in Polar Regions (Glaciers and Ice Sheets, Sea Ice, and Ice Shelves). , 0, , 218-239.		1
1133	Variations of the Mid-Pacific Trough and Their Relations to the Asianâ€œPacificâ€œNorth American Climate: Roles of Tropical Sea Surface Temperature and Arctic Sea Ice. Journal of Climate, 2018, 31, 2233-2252.	3.2	6
1134	Analyzing the Arctic Feedback Mechanism between Sea Ice and Low-Level Clouds Using 34 Years of Satellite Observations. Journal of Climate, 2020, 33, 7479-7501.	3.2	17
1135	Diversity, Abundance and Community Structure of Benthic Macro- and Megafauna on the Beaufort Shelf and Slope. PLoS ONE, 2014, 9, e101556.	2.5	20
1136	Polar Bear Distribution and Habitat Association Reflect Long-term Changes in Fall Sea Ice Conditions in the Alaskan Beaufort Sea. Arctic, 2009, 62, .	0.4	32
1137	Effects of Climate Change on the Seasonality of Weather for Tourism in Alaska. Arctic, 2009, 62, .	0.4	27
1138	Water and Ice-Related Phenomena in the Coastal Region of the Beaufort Sea: Some Parallels between Native Experience and Western Science. Arctic, 2009, 61, .	0.4	14
1139	Unusual Predation Attempts of Polar Bears on Ringed Seals in the Southern Beaufort Sea: Possible Significance of Changing Spring Ice Conditions. Arctic, 2009, 61, 14.	0.4	48
1140	Sea-Ice Distribution in the Bering and Chukchi Seas: Information from Historical Whaleshipsâ€™ Logbooks and Journals. Arctic, 2011, 64, .	0.4	13
1141	Summer Sea Ice Concentration, Motion, and Thickness Near Areas of Proposed Offshore Oil and Gas Development in the Canadian Beaufort Sea â€œ 2009. Arctic, 2013, 66, .	0.4	25
1142	The Impact of Sea Ice on Cruise Tourism on Svalbard. Arctic, 2019, 72, 151-165.	0.4	18
1143	Changes in Land Distribution of Polar Bears in Western Hudson Bay. Arctic, 2010, 63, .	0.4	12
1144	The Changing Climate of the Arctic. Arctic, 2009, 61, .	0.4	26
1145	Underestimation of surface <i>p</i>CO ₂ and air-sea CO ₂ fluxes due to freshwater stratification in an Arctic shelf sea, Hudson Bay. Elementa, 2020, 8, .	3.2	13
1146	Snowpack measurements suggest role for multi-year sea ice regions in Arctic atmospheric bromine and chlorine chemistry. Elementa, 2019, 7, .	3.2	20
1147	Late spring bloom development of pelagic diatoms in Baffin Bay. Elementa, 2019, 7, .	3.2	22

#	ARTICLE	IF	CITATIONS
1148	The Impact Of Sea Level Rise On Developing Countries : A Comparative Analysis. Policy Research Working Papers, 2007, , .	1.4	203
1149	Snow/Ice and Cloud Responses to Future Climate Change around Hokkaido. Scientific Online Letters on the Atmosphere, 2011, 7, 205-208.	1.4	12
1150	Data Analysis of Recent Warming Pattern in the Arctic. Scientific Online Letters on the Atmosphere, 2010, 6A, 1-4.	1.4	8
1152	The Recent Decline of the Arctic Summer Sea-Ice Cover in the Context of Internal Climate Variability. The Open Atmospheric Science Journal, 2008, 2, 91-100.	0.5	8
1153	Probability Assessments of an Ice-Free Arctic: Comparing Statistical and Climate Model Projections. , 0, , 01-29.		2
1154	Interannual variability of parameters of the Arctic Ocean surface layer and halocline. Arctic and Antarctic Research, 2020, 66, 404-426.	0.6	2
1157	Unusual drift behaviour of multi-year sea ice in the Beaufort Sea during summer 2018. Polar Research, 2020, 39, .	1.6	2
1158	Sea ice, climate change, and community vulnerability in northern Foxe Basin, Canada. Climate Research, 2009, 38, 137-154.	1.1	62
1159	Using thermoregulatory profiles to assess climate change vulnerability in an arboreal tropical bat: heterothermy may be a pre-adaptive advantage. Climate Research, 2017, 74, 161-170.	1.1	10
1160	Acoustic detection of North Pacific right whales in a high-traffic Aleutian Pass, 2009-2015. Endangered Species Research, 2018, 37, 77-90.	2.4	5
1161	First abundance estimate for white whales Delphinapterus leucas in Svalbard, Norway. Endangered Species Research, 2020, 41, 253-263.	2.4	8
1162	Divergent movements of walrus and sea ice in the northern Bering Sea. Marine Ecology - Progress Series, 2010, 407, 293-302.	1.9	15
1163	Importance of fast ice and glacier fronts for female polar bears and their cubs during spring in Svalbard, Norway. Marine Ecology - Progress Series, 2012, 447, 289-304.	1.9	74
1164	Marginal impacts of rising temperature on Arctic benthic microalgae production based on in situ measurements and modelled estimates. Marine Ecology - Progress Series, 2014, 501, 25-40.	1.9	14
1165	Shift towards the dominance of boreal species in the Arctic: inter-annual and spatial zooplankton variability in the West Spitsbergen Current. Marine Ecology - Progress Series, 2014, 501, 41-52.	1.9	93
1166	Trophic role and top-down control of a subarctic protozooplankton community. Marine Ecology - Progress Series, 2014, 500, 67-82.	1.9	19
1167	Community structure of under-ice fauna in the Eurasian central Arctic Ocean in relation to environmental properties of sea-ice habitats. Marine Ecology - Progress Series, 2015, 522, 15-32.	1.9	42
1168	Cell viability, pigments and photosynthetic performance of Arctic phytoplankton in contrasting ice-covered and open-water conditions during the spring-summer transition. Marine Ecology - Progress Series, 2016, 543, 89-106.	1.9	26

#	ARTICLE	IF	CITATIONS
1169	Feeding ecologies of key bivalve and polychaete species in the Bering Sea as elucidated by fatty acid and compound-specific stable isotope analyses. <i>Marine Ecology - Progress Series</i> , 2016, 557, 161-175.	1.9	15
1170	Variability in polar bear <i>Ursus maritimus</i> stable isotopes in relation to environmental change in the Canadian Beaufort Sea. <i>Marine Ecology - Progress Series</i> , 2019, 630, 215-225.	1.9	7
1171	Seasonal diving and foraging behaviour of Eastern Canada-West Greenland bowhead whales. <i>Marine Ecology - Progress Series</i> , 2020, 643, 197-217.	1.9	25
1172	Variation in the diet of beluga whales in response to changes in prey availability: insights on changes in the Beaufort Sea ecosystem. <i>Marine Ecology - Progress Series</i> , 2020, 647, 195-210.	1.9	36
1173	Fram Strait sea-ice sediment provinces based on silt and clay compositions identify Siberian Kara and Laptev seas as main source regions. <i>Polar Research</i> , 2010, 29, 265-282.	1.6	3
1174	Changes in the marine carbonate system of the western Arctic: patterns in a rescued data set. <i>Polar Research</i> , 2014, 33, 20577.	1.6	19
1175	Linking Alaska's Predicted Climate, Gyrfalcon, and Ptarmigan Distributions in Space and Time: A Unique 200-Year Perspective.. , 2011, , .		8
1176	Arctic Sea Ice: Decadal Simulations and Future Scenarios Using BESM-OA. <i>Atmospheric and Climate Sciences</i> , 2016, 06, 351-366.	0.3	5
1177	Nature of Centennial Global Climate Change from Observational Records. <i>American Journal of Climate Change</i> , 2015, 04, 337-354.	0.9	5
1178	Revisiting the trend in the occurrences of the “warm Arctic” cold Eurasian continent temperature pattern. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13753-13770.	4.9	6
1199	The use of regression for assessing a seasonal forecast model experiment. <i>Earth System Dynamics</i> , 2016, 7, 851-861.	7.1	2
1200	Climatology and time series of surface meteorology in Ny-Ålesund, Svalbard. <i>Earth System Science Data</i> , 2013, 5, 155-163.	9.9	120
1201	An update to the Surface Ocean CO ₂ Atlas (SOCAT version 2). <i>Earth System Science Data</i> , 2014, 6, 69-90.	9.9	158
1205	Changes of the Arctic marginal ice zone during the satellite era. <i>Cryosphere</i> , 2020, 14, 1971-1984.	3.9	29
1206	Clouds damp the radiative impacts of polar sea ice loss. <i>Cryosphere</i> , 2020, 14, 2673-2686.	3.9	19
1229	Dependence of thermal infrared emissive behaviors of snow cover on the surface snow type. <i>Bulletin of Glaciological Research</i> , 2014, 32, 33-45.	1.0	5
1230	Solar Dynamo Transitions as Drivers of Sudden Climate Changes. , 0, , .		5
1231	A study on precipitation trend and fluctuation mechanism in northwestern China over the past 60 years. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 129201.	0.5	22

#	ARTICLE	IF	CITATIONS
1232	Interannual and interdecadal atmospheric circulation anomalies of autumn dry/wet over the loess plateau and its multi-scalar correlation to SST. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 219202.	0.5	2
1233	Relationship between sea ice concentration and sea ice albedo over Antarctica. Korean Journal of Remote Sensing, 2015, 31, 347-351.	0.4	5
1239	When will the Arctic Ocean become ice-free?. Arctic, Antarctic, and Alpine Research, 2021, 53, 217-218.	1.1	3
1240	Arctic char <i>Salvelinus alpinus</i> movement dynamics relative to ice breakup in a high Arctic embayment. Marine Ecology - Progress Series, 2022, 682, 221-236.	1.9	8
1241	Surface Salinity Under Transitioning Ice Cover in the Canada Basin: Climate Model Biases Linked to Vertical Distribution of Fresh Water. Geophysical Research Letters, 2021, 48, e2021GL094739.	4.0	12
1242	Interaction between Arctic sea ice and the Atlantic meridional overturning circulation in a warming climate. Climate Dynamics, 2022, 58, 1811-1827.	3.8	19
1243	Climate change: what it means for us, our children, and our grandchildren. Choice Reviews, 2008, 45, 45-3846-45-3846.	0.2	7
1245	Cryosphere Models. , 2009, , 1704-1718.		1
1248	Polar Bear (<i>Ursus maritimus</i>) Life History and Population Dynamics in a Changing Climate. Arctic, 2009, 62, .	0.4	0
1250	Variability of Phytoplankton Pigment Concentrations and Primary Productivity. Atmospheric and Oceanographic Sciences Library, 2010, , 403-447.	0.1	0
1254	The climate crisis: an introductory guide to climate change. Choice Reviews, 2010, 47, 47-6877-47-6877.	0.2	5
1255	Projected Sea-ice Changes in the Arctic Sea under Global Warming. Ocean and Polar Research, 2010, 32, 379-386.	0.3	0
1256	Energy Transport in the Climate System and Its Parameterisation. Advances in Geophysical and Environmental Mechanics and Mathematics, 2011, , 79-89.	0.2	0
1257	Cryosphere ModelsCryosphere models. , 2011, , 95-108.		0
1259	Large-Scale Circulation in the Ocean. Advances in Geophysical and Environmental Mechanics and Mathematics, 2011, , 97-122.	0.2	0
1260	Multiple Equilibria in the Climate System. Advances in Geophysical and Environmental Mechanics and Mathematics, 2011, , 151-164.	0.2	0
1261	Initial Value and Boundary Value Problems. Advances in Geophysical and Environmental Mechanics and Mathematics, 2011, , 91-96.	0.2	1
1263	Atmosphere–Ocean Interactions. Advances in Geophysical and Environmental Mechanics and Mathematics, 2011, , 137-150.	0.2	0

#	ARTICLE	IF	CITATIONS
1266	Conflict or Cooperation? Arctic Geopolitics and Climate Change. Berkeley Undergraduate Journal, 2012, 25, .	0.0	0
1271	Transatlantic Policy Options to Address the Rapidly Changing Arctic. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 281-293.	0.2	2
1273	Reflection properties of snow surfaces. , 2013, , 151-187.		1
1277	Climate Change: A Threat of the Era. , 2013, , 1-31.		0
1280	Arctic Climate and Water Change: Model and Observation Relevance for Assessment and Adaptation. Space Sciences Series of ISSI, 2013, , 853-877.	0.0	0
1283	Improved Retrieval of Sea Ice Thickness and Density from Laser Altimeter. Atmospheric and Climate Sciences, 2014, 04, 907-918.	0.3	1
1284	Sea Ice Albedo. Encyclopedia of Earth Sciences Series, 2014, , 722-727.	0.1	0
1285	Cryosphere Models. , 2014, , 1-22.		0
1286	Application of Passive Hydroacoustics in the Studies of Sea-Ice, Icebergs and Glaciers: Issues, Approaches and Future Needs. GeoPlanet: Earth and Planetary Sciences, 2014, , 271-295.	0.2	1
1288	Overview Greenland Sea. SpringerBriefs in Environmental Science, 2015, , 1-5.	0.3	0
1289	Conclusions and Discussions. SpringerBriefs in Environmental Science, 2015, , 81-86.	0.3	0
1290	On the Fluidity of Grounds: Sea Ice and Digital Mediation of Inuit Experience. TOPIA Canadian Journal of Cultural Studies, 2015, 32, 159-177.	0.2	1
1296	Transregional linkages in the north -eastern Atlantic â€” an â€œend -to-end â€” analysis of pelagic ecosystems. , 2016, , 13-88.		0
1297	Abnormal Winter Melting of the Arctic Sea Ice Cap Observed by the Spaceborne Passive Microwave Sensors. Journal of Astronomy and Space Sciences, 2016, 33, 305-311.	1.0	3
1299	Climate Mediated Changes in Permafrost and Their Effects on Natural and Human Environments. , 2017, , 477-512.		1
1300	Polar Bears and Sea Ice Habitat Change. Animal Welfare, 2017, , 419-443.	1.0	1
1301	chapter 1 Grand Challenges in Marine Biogeochemistry. , 2017, , 1-14.		0
1302	Naturesâ€™ Reaction to Anthropogenic Activities. Advances in Geographical and Environmental Sciences, 2019, , 79-109.	0.6	2

#	ARTICLE	IF	CITATIONS
1303	Probability Assessments of an Ice-Free Arctic: Comparing Statistical and Climate Model Projections. SSRN Electronic Journal, 0, , .	0.4	1
1304	Trans-Arctic Interactions and Cross-Country Collaboration. Impact of Meat Consumption on Health and Environmental Sustainability, 2019, , 55-78.	0.4	0
1305	Mangroves: A Potential Vegetation Against Sea Level Rise. , 2020, , 157-187.		0
1306	Sea Ice in the Arctic Paleoenvironments. Springer Polar Sciences, 2020, , 9-56.	0.1	4
1307	Sea Ice Modelling. Springer Polar Sciences, 2020, , 315-387.	0.1	3
1308	Current and Projected Sea Ice in the Arctic in the Twenty-First Century. Springer Polar Sciences, 2020, , 399-463.	0.1	4
1309	Nesting Common Eiders (<i>Somateria mollissima</i>) show little behavioral response to fixed-wing drone surveys. Journal of Unmanned Vehicle Systems, 2022, 10, 1-14.	1.2	3
1310	Radiation in the Arctic Atmosphere and Atmosphere “Cryosphere Feedbacks. Springer Polar Sciences, 2020, , 591-672.	0.1	1
1311	Passenger Security and Spacetime: Touring the Northwest Passage in the Wake of Colonialism and Climate Change. , 2020, , 189-241.		0
1312	Climate Change: Threat of Era. , 2020, , 433-478.		0
1313	Reconstructing Arctic Sea Ice over the Common Era Using Data Assimilation. Journal of Climate, 2022, 35, 1231-1247.	3.2	4
1314	The Arctic Temperature Response to Global and Regional Anthropogenic Sulfate Aerosols. Frontiers in Environmental Science, 2021, 9, .	3.3	1
1315	Climate sensitivity in the northern high latitudes using the Brazilian Earth System Model. Conjeturas, 2021, 21, 192-211.	0.0	0
1316	Sea ice in the northern North Atlantic through the Holocene: Evidence from ice cores and marine sediment records. Quaternary Science Reviews, 2021, 273, 107249.	3.0	3
1317	Statistical predictability of the Arctic sea ice volume anomaly: identifying predictors and optimal sampling locations. Cryosphere, 2020, 14, 2409-2428.	3.9	9
1318	Climate Modeling*. Annual Review of Environment and Resources, 2008, 33, 1-17.	13.4	0
1319	The Arctic: An Upside-Down Ocean. Frontiers for Young Minds, 0, 8, .	0.8	0
1320	Rapid reductions and millennial-scale variability in Nordic Seas sea ice cover during abrupt glacial climate changes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29478-29486.	7.1	12

#	ARTICLE	IF	CITATIONS
1321	Exact solutions of the nonlocal Sawada-Kotera equation in the Alice-Bob system. International Journal of Modern Physics B, 2020, 34, 2050315.	2.0	0
1322	Interannual Variability of Primary Production in the East Siberian Sea. Oceanology, 2020, 60, 765-777.	1.2	1
1323	Optical properties and surface energy flux of spring fast ice in the Arctic. Acta Oceanologica Sinica, 2021, 40, 84-96.	1.0	2
1324	Processes controlling aggregate formation and distribution during the Arctic phytoplankton spring bloom in Baffin Bay. Elementa, 2021, 9, .	3.2	5
1325	Numerical Simulations of Internal Solitary Wave Evolution Beneath an Ice Keel. Journal of Geophysical Research: Oceans, 2022, 127, e2020JC017068.	2.6	4
1326	Distribution and Driving Mechanism of N ₂ O in Sea Ice and Its Underlying Seawater during Arctic Melt Season. Water (Switzerland), 2022, 14, 145.	2.7	0
1327	The Response of Northern Hemisphere Polar Lows to Climate Change in a 25-km High-Resolution Global Climate Model. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	4
1328	Arctic precipitation recycling and hydrologic budget changes in response to sea ice loss. Global and Planetary Change, 2022, 209, 103752.	3.5	8
1329	Arctic sea ice sensitivity to lateral melting representation in a coupled climate model. Cryosphere, 2022, 16, 419-434.	3.9	13
1330	Superpixel Based Sea Ice Segmentation with High-Resolution Optical Images: Analysis and Evaluation. Lecture Notes in Electrical Engineering, 2022, , 1004-1012.	0.4	0
1331	It's the Heat and the Humidity: The Complementary Roles of Temperature and Specific Humidity to Recent Changes in the Energy Content of the Near-Surface Atmosphere. Geophysical Research Letters, 2022, 49, .	4.0	5
1332	Environmental drivers of population-level variation in the migratory and diving ontogeny of an Arctic top predator. Royal Society Open Science, 2022, 9, 211042.	2.4	5
1333	Ice Coverage of the Laptev Sea and Air Temperature Variation during Recent Centuries: Observed Data and Reconstructions Using a Geochemical Proxy. Current Chinese Science, 2022, 2, 198-212.	0.5	4
1334	Responses of Arctic sea ice to stratospheric ozone depletion. Science Bulletin, 2022, 67, 1182-1190.	9.0	20
1335	Observed Winds Crucial for September Arctic Sea Ice Loss. Geophysical Research Letters, 2022, 49, .	4.0	8
1336	Spatial and Interannual Patterns of Epipelagic Summer Mesozooplankton Community Structures in the Western Arctic Ocean in 2016-2020. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	3
1337	Wave-ice dynamical interaction: a numerical model and its application. Acta Oceanologica Sinica, 2021, 40, 129-137.	1.0	0
1339	Influence of retreating Barents-Kara sea ice on the periodicity of El Niño-Southern Oscillation. International Journal of Climatology, 0, .	3.5	2

#	ARTICLE	IF	CITATIONS
1340	Highly mixed impacts of near-future climate change on stock productivity proxies in the North East Atlantic. <i>Fish and Fisheries</i> , 2022, 23, 601-615.	5.3	24
1341	An Unprecedented Record Low Antarctic Sea-ice Extent during Austral Summer 2022. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1591-1597.	4.3	24
1342	Tight association between microbial eukaryote and giant virus communities in the Arctic Ocean. <i>Limnology and Oceanography</i> , 2022, 67, 1343-1356.	3.1	3
1346	State estimation of the Stefan PDE: A tutorial on design and applications to polar ice and batteries. <i>Annual Reviews in Control</i> , 2022, 53, 199-223.	7.9	8
1347	Possible Lagged Impact of the Arctic Sea Ice in Barents-Kara Seas on June Precipitation in Eastern China. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	5
1348	Physiographic Controls on Landfast Ice Variability from 20 Years of Maximum Extents across the Northwest Canadian Arctic. <i>Remote Sensing</i> , 2022, 14, 2175.	4.0	2
1349	Opposite, but insufficient, phenological responses to climate in two circumpolar seabirds: Relative roles of phenotypic plasticity and selection. <i>Functional Ecology</i> , 2022, 36, 1782-1795.	3.6	9
1350	Modelling the Oceanic Advection of Pollutants Spilt Along with the Northwest Passage. <i>Atmosphere - Ocean</i> , 2022, 60, 88-101.	1.6	2
1351	Risk Assessment of Ship Navigation in the Northwest Passage: Historical and Projection. <i>Sustainability</i> , 2022, 14, 5591.	3.2	6
1352	Network connectivity between the winter Arctic Oscillation and summer sea ice in CMIP6 models and observations. <i>Cryosphere</i> , 2022, 16, 1653-1673.	3.9	4
1353	The multi-year comparisons of chlorophyll and sea ice in Greenland Sea and Barents Sea and their relationships with the North Atlantic Oscillation. <i>Journal of Marine Systems</i> , 2022, 231, 103749.	2.1	2
1354	Exploring the effect of Arctic perennial sea ice on modulation of local air temperature. <i>Advances in Climate Change Research</i> , 2022, 13, 473-488.	5.1	2
1355	Melting Antarctic Sea Ice Is Yielding Adverse Effects on a Short-Lived Squid Species in the Antarctic Adjacent Waters. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	1
1356	Quantifying the Role of Atmospheric and Surface Albedo on Polar Amplification Using Satellite Observations and CMIP6 Model Output. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	3
1357	Effects of severe winter on the lipid nutritional quality and supply of edible bivalves. <i>Aquaculture</i> , 2022, 560, 738537.	3.5	6
1358	Prediction of Pan-Arctic Sea Ice Using Attention-Based LSTM Neural Networks. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	5
1359	A local marine source of atmospheric particles in the High Arctic. <i>Atmospheric Environment</i> , 2022, 285, 119241.	4.1	3
1360	Insights into bear evolution from a Pleistocene polar bear genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11

#	ARTICLE	IF	CITATIONS
1363	An Optimal Atmospheric Circulation Mode in the Arctic Favoring Strong Summertime Sea Ice Melting and Iceâ€™Albedo Feedback. <i>Journal of Climate</i> , 2022, 35, 3027-3045.	3.2	2
1364	A Warm and A Cold Spot in Cape Cod Waters Amid the Recent New England Shelf Warming. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	3
1365	A Study on Chinaâ€™s Cultural Product Export Trade and Its Forecast Based on Hausmannâ€™s Export Complexity. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-6.	1.2	2
1366	Modeled Interannual Variability of Arctic Sea Ice Cover is within Observational Uncertainty. <i>Journal of Climate</i> , 2022, 35, 3227-3242.	3.2	2
1367	Recovering and monitoring the thickness, density, and elastic properties of sea ice from seismic noise recorded in Svalbard. <i>Cryosphere</i> , 2022, 16, 2527-2543.	3.9	8
1368	Evaluation of Sea Ice Simulation of CAS-ESM 2.0 in Historical Experiment. <i>Atmosphere</i> , 2022, 13, 1056.	2.3	1
1369	Testing the efficacy of atmospheric boundary layer height detection algorithms using uncrewed aircraft system data from MOSAiC. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 4001-4022.	3.1	18
1370	Continuous measurement of sea ice freeboard with tide gauges and GNSS interferometric reflectometry. <i>Remote Sensing of Environment</i> , 2022, 280, 113165.	11.0	3
1371	Comparing recent changes in the Arctic and the Third Pole: linking science and policy. <i>Polar Geography</i> , 2022, 45, 197-225.	1.9	0
1372	Enhanced simulated early 21st century Arctic sea ice loss due to CMIP6 biomass burning emissions. <i>Science Advances</i> , 2022, 8, .	10.3	12
1373	Neglected Spatiotemporal Variations of Model Biases in Ensembleâ€™Based Climate Projections. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
1374	Abrupt transition from slow to fast melting of ice. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	6
1375	Sea ice out of time: Reckoning with environmental change. <i>Time and Society</i> , 0, , 0961463X2211113.	1.5	1
1376	A New Perspective on the Development of the Great Arctic Cyclone in August 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 0, , .	3.3	1
1377	Arctic Multiyear Ice Areal Flux and Its Connection with Large-Scale Atmospheric Circulations in the Winters of 2002â€™2021. <i>Remote Sensing</i> , 2022, 14, 3742.	4.0	5
1378	Selected Topics of the Past Thirty Years in Ocean Acoustics. <i>Journal of Theoretical and Computational Acoustics</i> , 2022, 30, .	1.1	2
1379	Remote sensing, snow modelling, survey data and Indigenous Knowledge show how snow and sea-ice conditions affect Peary caribou (<i>Rangifer tarandus pearyi</i>) distribution and inter-island and islandâ€™mainland movements. <i>Polar Research</i> , 0, 41, .	1.6	0
1380	Influence of tropical Atlantic meridional dipole of sea surface temperature anomalies on Antarctic autumn sea ice. <i>Environmental Research Letters</i> , 2022, 17, 094046.	5.2	7

#	ARTICLE	IF	CITATIONS
1381	Understanding model spread in sea ice volume by attribution of model differences in seasonal ice growth and melt. Cryosphere, 2022, 16, 4013-4032.	3.9	0
1382	Learning Why: Data-Driven Causal Evaluations of Climate Models.. , 2021, , .		1
1383	Climate and ice conditions of East Siberian Sea during Holocene: Reconstructions based on sedimentary geochemical multiproxy. Holocene, 2023, 33, 3-13.	1.7	5
1384	Traditional Livelihood, Unstable Environment: Adaptation of Traditional Fishing and Reindeer Herding to Environmental Change in the Russian Arctic. Sustainability, 2022, 14, 12640.	3.2	1
1385	Wave-triggered breakup in the marginal ice zone generates lognormal floe size distributions: a simulation study. Cryosphere, 2022, 16, 4447-4472.	3.9	5
1386	Observed and forecasted changes in land use by polar bears in the Beaufort and Chukchi Seas, 1985â€“2040. Global Ecology and Conservation, 2022, 40, e02319.	2.1	9
1387	Phytoplankton photophysiology varies depending on nitrogen and light availability at the subsurface chlorophyll maximum in the northern Chukchi Sea. Frontiers in Marine Science, 0, 9, .	2.5	4
1388	Arctic sea ice coverage from 43 years of satellite passive-microwave observations. Frontiers in Remote Sensing, 0, 3, .	3.5	5
1389	Role of atmospheric heat fluxes and ocean advection on decadal (2000â€“2019) change of sea-ice in the Arctic. Climate Dynamics, 0, , .	3.8	0
1390	Comparison of macroalgae meadows in warm Atlantic versus cold Arctic regimes in the high-Arctic Svalbard. Frontiers in Marine Science, 0, 9, .	2.5	4
1391	Analysis of sea ice conditions and navigability in the Arctic Northeast Passage during the summer from 2002-2021. Geo-Spatial Information Science, 2023, 26, 465-479.	5.3	3
1392	The relative role of the subsurface Southern Ocean in driving negative Antarctic Sea ice extent anomalies in 2016â€“2021. Communications Earth & Environment, 2022, 3, .	6.8	13
1393	Measuring the thickness and Youngâ€™s modulus of the ice pack with DAS, a test case on a frozen mountain lake. Geophysical Journal International, 2023, 233, 1166-1177.	2.4	1
1394	Distribution of diatoms in seafloor surface sediments of the Laptev, East Siberian, and Chukchi seas: implication for environmental reconstructions. Polar Biology, 2023, 46, 21-34.	1.2	2
1396	On the Annual and Semi-Annual Components of Variations in Extent of Arctic and Antarctic Sea-Ice. Geosciences (Switzerland), 2023, 13, 21.	2.2	0
1397	Landfast sea ice break out patterns in the northern Bering Sea observed from C-band Synthetic Aperture Radar. International Journal of Applied Earth Observation and Geoinformation, 2023, 117, 103183.	1.9	1
1398	Holocene Paleoenvironmental Implications of Diatom, Non-Pollen Palynomorph, and Organic Carbon Records from the Kandalaksha Bay of the White Sea (European Arctic). Geosciences (Switzerland), 2023, 13, 56.	2.2	0
1399	Potential Vorticity Dynamics Explain How Extratropical Oceans and the Arctic Modulate Wintertime Landâ€™Temperature Variations. Earth's Future, 2023, 11, .	6.3	1

#	ARTICLE	IF	CITATIONS
1400	Unraveling the Arctic Sea Ice Change since the Middle of the Twentieth Century. <i>Geosciences</i> (Switzerland), 2023, 13, 58.	2.2	2
1401	Mechanisms and Impacts of Earth System Tipping Elements. <i>Reviews of Geophysics</i> , 2023, 61, .	23.0	10
1402	Monitoring the Spatiotemporal Dynamics of Arctic Winter Snow/Ice with Moonlight Remote Sensing: Systematic Evaluation in Svalbard. <i>Remote Sensing</i> , 2023, 15, 1255.	4.0	1
1403	Will the summer sea ice in the Arctic reach a tipping point?. <i>Atmospheric and Oceanic Science Letters</i> , 2023, 16, 100352.	1.3	2
1404	Why Does Arctic Sea Ice Respond More Evidently than Antarctic Sea Ice to Climate Change?. , 2023, 2, .		5
1405	Arctic-associated increased fluctuations of midlatitude winter temperature in the 1.5° and 2.0° warmer world. <i>Npj Climate and Atmospheric Science</i> , 2023, 6, .	6.8	3
1406	Impacts of Cyclones on Arctic Clouds during Autumn in the Early 21st Century. <i>Atmosphere</i> , 2023, 14, 689.	2.3	0
1407	Automated Detection and Depth Determination of Melt Ponds on Sea Ice in ICESat-2 ATLAS Dataâ€”The Density-Dimension Algorithm for Bifurcating Sea-Ice Reflectors (DDA-Bifurcate-Seaice). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2023, 61, 1-22.	6.3	2
1408	Database of daily Lagrangian Arctic sea ice parcel drift tracks with coincident ice and atmospheric conditions. <i>Scientific Data</i> , 2023, 10, .	5.3	2
1409	Ocean ambient noise on the Chukchi Plateau and its environmental correlates. <i>Marine Environmental Research</i> , 2023, 188, 106024.	2.5	1
1410	Arctic Seasonal Variability and Extremes, and the Role of Weather Systems in a Changing Climate. <i>Geophysical Research Letters</i> , 2023, 50, .	4.0	0
1411	Impact of atmospheric forcing uncertainties on Arctic and Antarctic sea ice simulations in CMIP6 OMIP models. <i>Cryosphere</i> , 2023, 17, 1935-1965.	3.9	2
1412	Spatial and temporal characteristics of carbon emission and sequestration of terrestrial ecosystems and their driving factors in mainland Chinaâ€”a case study of 352 prefectural administrative districts. <i>Frontiers in Ecology and Evolution</i> , 0, 11, .	2.2	0
1413	Atmospheric circulation-constrained model sensitivity recalibrates Arctic climate projections. <i>Nature Climate Change</i> , 2023, 13, 710-718.	18.8	3
1414	Estimating methane emissions in the Arctic nations using surface observations from 2008 to 2019. <i>Atmospheric Chemistry and Physics</i> , 2023, 23, 6457-6485.	4.9	0
1415	Underrepresentation of the Linkage between the Barentsâ€”Kara Sea Ice and East Asian Rainfall in Early Summer by CMIP6 Models. <i>Atmosphere</i> , 2023, 14, 1044.	2.3	0
1416	Pulses of Cold Atlantic Water in the Arctic Ocean From an Ocean Model Simulation. <i>Journal of Geophysical Research: Oceans</i> , 2023, 128, .	2.6	1
1417	Similarity in phytoplankton photophysiology among under-ice, marginal ice, and open water environments of Baffin Bay (Arctic Ocean). <i>Elementa</i> , 2023, 11, .	3.2	0

#	ARTICLE	IF	CITATIONS
1418	Fine Resolution Classification of New Ice, Young Ice, and First-Year Ice Based on Feature Selection from Gaofen-3 Quad-Polarization SAR. Remote Sensing, 2023, 15, 2399.	4.0	0
1419	Modeling the Recent Changes of Phytoplankton Blooms Dynamics in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2023, 128, .	2.6	3
1420	The Montreal Protocol is delaying the occurrence of the first ice-free Arctic summer. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	7.1	3
1421	Fuzzy cognitive mapping as a tool to assess the relative cumulative effects of environmental stressors on an Arctic seabird population to identify conservation action and research priorities. Ecological Solutions and Evidence, 2023, 4, .	2.0	5
1422	Impact of Regional Warming on Primary Production of the Kara Sea in the Last Two Decades (2002–2021). Oceanology, 2023, 63, 195-211.	1.2	2
1423	Changing sources and burial of organic carbon in the Chukchi Sea sediments with retreating sea ice over recent centuries. Climate of the Past, 2023, 19, 1305-1320.	3.4	1
1424	Multi-sensor detection of spring breakup phenology of Canada's lakes. Remote Sensing of Environment, 2023, 295, 113656.	11.0	2
1425	When will Arctic sea ice disappear? Projections of area, extent, thickness, and volume. Journal of Econometrics, 2023, 236, 105479.	6.5	5
1427	A frequent ice-free Arctic is likely to occur before the mid-21st century. Npj Climate and Atmospheric Science, 2023, 6, .	6.8	1
1428	A seasonally ice-free Arctic Ocean during the Last Interglacial. Nature Geoscience, 2023, 16, 723-729.	12.9	5
1429	Impacts of the extratropical North Pacific on boreal summer Arctic circulation. Atmospheric and Oceanic Science Letters, 2023, 16, 100405.	1.3	1
1430	A model for the Arctic mixed layer circulation under a summertime lead: implications for the near-surface temperature maximum formation. Cryosphere, 2023, 17, 3343-3361.	3.9	1
1431	Tipping Points. , 2023, , 849-853.		2
1432	The Atmospheric Boundary Layer Above the Marginal Ice Zone: Scaling, Surface Fluxes, and Secondary Circulations. Boundary-Layer Meteorology, 2023, 189, 53-76.	2.3	1
1434	An overview of scholarly literature on navigation hazards in Arctic shipping routes. Environmental Science and Pollution Research, 0, , .	5.3	4
1435	Climate models underestimate the sensitivity of Arctic sea ice to carbon emissions. Energy Economics, 2023, 126, 107012.	12.1	2
1436	Subseasonal-to-seasonal prediction of arctic sea ice Using a Fully Coupled dynamical ensemble forecast system. Atmospheric Research, 2023, 295, 107014.	4.1	0
1437	Persistent impact of winter atmospheric circulation anomalies on Arctic sea ice. Environmental Research Communications, 2023, 5, 101002.	2.3	1

#	ARTICLE	IF	CITATIONS
1438	Computer Vision for Bioacoustics: Detection of Bearded Seal Vocalizations in the Chukchi Shelf Using YOLOV5. IEEE Journal of Oceanic Engineering, 2024, 49, 133-144.	3.8	1
1439	Investigating High-Resolution Spatial Wave Patterns on the Canadian Beaufort Shelf Using Synthetic Aperture Radar Imagery at Herschel Island, Qikiqtaruk, Yukon, Canada. Remote Sensing, 2023, 15, 4753.	4.0	0
1440	Opportunistic sightings from fisheries surveys inform habitat suitability for northern bottlenose whales (<i>Hyperoodon ampullatus</i>) and sperm whales (<i>Physeter macrocephalus</i>) in Baffin Bay and Davis Strait, Canadian Arctic. Marine Ecology - Progress Series, 0, , .	1.9	1
1441	Spatiotemporal Variation Analysis of Arctic Sea Ice Thickness and Volume Based on CryoSat-2 Altimetry Satellite Data. , 0, , .		0
1442	Constraining the First Year of Ice-Free Arctic: Importance of Regional Perspective. Earth's Future, 2023, 11, .	6.3	0
1443	Cold season Arctic strong cyclones enhance Atlantification of the Arctic Ocean. Environmental Research Letters, 0, , .	5.2	0
1444	Arctic marginal ice zone interannual variability and change point detection using two definitions (1983-2022). Environmental Research Letters, 2023, 18, 124002.	5.2	2
1445	Simplified estimation of wave attenuation in marginal ice zone using homogenized scattering model. Applied Ocean Research, 2023, 138, 103663.	4.1	0
1446	Incremental evolution of modeling a prognosis for polar bears in a rapidly changing Arctic. Ecological Indicators, 2023, 156, 111130.	6.3	0
1447	Analysis of Seasonal Differences of Chlorophyll, Dimethylsulfide, and Ice Between the Greenland Sea and the Barents Sea. Journal of Ocean University of China, 2023, 22, 1592-1604.	1.2	0
1448	The Weakened Atlantic Meridional Overturning Circulation Diminishes Recent Arctic Sea Ice Loss. Geophysical Research Letters, 2023, 50, .	4.0	1
1449	Projections of central Arctic summer sea surface temperatures in CMIP6. Environmental Research Letters, 2023, 18, 124047.	5.2	1
1450	Stieltjes functions and spectral analysis in the physics of sea ice. Nonlinear Processes in Geophysics, 2023, 30, 527-552.	1.3	0
1451	Bistability in Radiatively Heated Melt Ponds. Physical Review Letters, 2023, 131, .	7.8	0
1452	Enhanced ocean deoxygenation in the Bering Sea during MIS 11c. Palaeogeography, Palaeoclimatology, Palaeoecology, 2024, 637, 111982.	2.3	0
1453	Long-term eddy modulation affects the meridional asymmetry of the halocline in the Beaufort Gyre. Ocean Science, 2023, 19, 1773-1789.	3.4	0
1454	Reprint of: When will Arctic sea ice disappear? Projections of area, extent, thickness, and volume. Journal of Econometrics, 2024, 239, 105645.	6.5	0
1455	Biomolecular profiles of Arctic sea-ice diatoms highlight the role of under-ice light in cellular energy allocation. ISME Communications, 2024, 4, .	4.2	0

#	ARTICLE	IF	CITATIONS
1456	Comparison of Intense Summer Arctic Cyclones Between the Marginal Ice Zone and Central Arctic. Journal of Geophysical Research D: Atmospheres, 2024, 129, .	3.3	0
1457	Model Mean State Sea Ice Thickness Reflects Dynamic Effect Biases: A Process Based Evaluation. Geophysical Research Letters, 2024, 51, .	4.0	0
1458	Projections of an ice-free Arctic Ocean. Nature Reviews Earth & Environment, 2024, 5, 164-176.	29.7	0
1459	Polar Coasts. , 2011, , 927-969.		0