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Implications of Arctic Sea Ice Decline for the Earth System

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#	Paper	IF	Citations
74	Overarching perspectives of contemporary and future ecosystems in the Arctic Ocean. <i>Progress in Oceanography</i> , 2015 , 139, 1-12	3.8	26
73	Rising methane emissions from northern wetlands associated with sea ice decline. <i>Geophysical Research Letters</i> , 2015 , 42, 7214-7222	4.9	19
72	Water, Climate, Energy, Food: Inseparable & Indispensable. <i>Daedalus</i> , 2015 , 144, 7-17	2	10
71	The contiguous panarctic Riverine Coastal Domain: A unifying concept. <i>Progress in Oceanography</i> , 2015 , 139, 13-23	3.8	58
70	Toward Quantifying the Increasing Role of Oceanic Heat in Sea Ice Loss in the New Arctic. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 2079-2105	6.1	162
69	Projected changes in regional climate extremes arising from Arctic sea ice loss. <i>Environmental Research Letters</i> , 2015 , 10, 084006	6.2	50
68	Photosynthetic production in the central Arctic Ocean during the record sea-ice minimum in 2012. <i>Biogeosciences</i> , 2015 , 12, 3525-3549	4.6	97
67	Climate Drivers Linked to Changing Seasonality of Alaska Coastal Tundra Vegetation Productivity. <i>Earth Interactions</i> , 2015 , 19, 1-29	1.5	30
66	Arctic freshwater export: Status, mechanisms, and prospects. <i>Global and Planetary Change</i> , 2015 , 125, 13-35	4.2	243
65	A tale of two basins: An integrated physical and biological perspective of the deep Arctic Ocean. <i>Progress in Oceanography</i> , 2015 , 139, 89-121	3.8	80
64	Dissolved organic matter in newly formed sea ice and surface seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 171, 39-49	5.5	20
63	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,	4.5	20
62	Genetic profiling links changing sea-ice to shifting beluga whale migration patterns. <i>Biology Letters</i> , 2016 , 12, 20160404	3.6	19
61	Highly individualistic rates of plant phenological advance associated with arctic sea ice dynamics. <i>Biology Letters</i> , 2016 , 12,	3.6	16
60	Modeling the Arctic freshwater system and its integration in the global system: Lessons learned and future challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 540-566	3.7	59
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58	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. <i>Ocean Modelling</i> , 2016 , 99, 110-132	3	51

57	Decadal shifts in autumn migration timing by Pacific Arctic beluga whales are related to delayed annual sea ice formation. <i>Global Change Biology</i> , 2017 , 23, 2206-2217	11.4	46
56	Implications of earlier sea ice melt for phenological cascades in arctic marine food webs. <i>Food Webs</i> , 2017 , 13, 60-66	1.8	27
55	Simulated Atmospheric Response to Regional and Pan-Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2017 , 30, 3945-3962	4.4	96
54	Arctic sea-ice proxies: Comparisons between biogeochemical and micropalaeontological reconstructions in a sediment archive from Arctic Canada. <i>Holocene</i> , 2017 , 27, 665-682	2.6	13
53	Younger-Dryas cooling and sea-ice feedbacks were prominent features of the Pleistocene-Holocene transition in Arctic Alaska. <i>Quaternary Science Reviews</i> , 2017 , 169, 330-343	3.9	20
52	Delta progradation in Greenland driven by increasing glacial mass loss. <i>Nature</i> , 2017 , 550, 101-104	50.4	44
51	Disentangling the coupling between sea ice and tundra productivity in Svalbard. <i>Scientific Reports</i> , 2017 , 7, 8586	4.9	21
50	Out of the woods: Driftwood insights into Holocene pan-Arctic sea ice dynamics. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 7612-7629	3.3	10
49	A synthesis of the arctic terrestrial and marine carbon cycles under pressure from a dwindling cryosphere. <i>Ambio</i> , 2017 , 46, 53-69	6.5	35
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46	Reduced arctic tundra productivity linked with landform and climate change interactions. <i>Scientific Reports</i> , 2018 , 8, 2345	4.9	75
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44	Modelling the impacts of projected sea ice decline on the low atmosphere and near-surface permafrost on the North Slope of Alaska. <i>International Journal of Climatology</i> , 2018 , 38, 5491-5504	3.5	5
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41	Vulnerability of Arctic marine mammals to vessel traffic in the increasingly ice-free Northwest Passage and Northern Sea Route. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7617-7622	11.5	42
40	Dissolved Fe in the Deep and Upper Arctic Ocean With a Focus on Fe Limitation in the Nansen Basin. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	34

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37	Strong tidal currents over two shallow banks in the western subarctic Pacific. <i>Ocean Dynamics</i> , 2018 , 68, 1093-1107	2.3	4
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33	Fe-Binding Organic Ligands in the Humic-Rich TransPolar Drift in the Surface Arctic Ocean Using Multiple Voltammetric Methods. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 1491-1508	3.3	21
32	Atmospheric moisture transport and the decline in Arctic Sea ice. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019 , 10, e588	8.4	13
31	The Role of Atlantic Heat Transport in Future Arctic Winter Sea Ice Loss. <i>Journal of Climate</i> , 2019 , 32, 3327-3341	4.4	63
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29	Arctic greening associated with lengthening growing seasons in Northern Alaska. <i>Environmental Research Letters</i> , 2019 , 14, 125018	6.2	24
28	Latitudinal Distributions and Controls of Bacterial Community Composition during the Summer of 2017 in Western Arctic Surface Waters (from the Bering Strait to the Chukchi Borderland). <i>Scientific Reports</i> , 2019 , 9, 16822	4.9	4
27	Vegetation on mesic loamy and sandy soils along a 1700-km maritime Eurasia Arctic Transect. <i>Applied Vegetation Science</i> , 2019 , 22, 150-167	3.3	2
26	An assessment of regional sea ice predictability in the Arctic ocean. <i>Climate Dynamics</i> , 2019 , 53, 427-440	4.2	6
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24	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652	23.1	23
23	Towards a unifying pan-arctic perspective: A conceptual modelling toolkit. <i>Progress in Oceanography</i> , 2020 , 189, 102455	3.8	11
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20	Being on Land and Sea in Troubled Times: Climate Change and Food Sovereignty in Nunavut. <i>Land</i> , 2020 , 9, 508	3.5	5
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12	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO ₂ .		
11	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO ₂ . <i>Biogeosciences</i> , 2021 , 18, 4985-5010	4.6	11
10	Drone data reveal heterogeneity in tundra greenness and phenology not captured by satellites. <i>Environmental Research Letters</i> , 2020 , 15, 125002	6.2	17
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8	The catastrophic thermokarst lake drainage events of 2018 in northwestern Alaska: fast-forward into the future. <i>Cryosphere</i> , 2020 , 14, 4279-4297	5.5	24
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- 1 An open and lightweight method to analyze the vertical distribution of pelagic organisms using echogram screenshots. ○