

Mark C Serreze

List of Publications by Citations

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

40
papers

9,421
citations

30
h-index

43
g-index

43
ext. papers

10,465
ext. citations

5
avg, IF

6.42
L-index

#	Paper	IF	Citations
40	Arctic sea ice decline: Faster than forecast. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	1225
39	Processes and impacts of Arctic amplification: A research synthesis. <i>Global and Planetary Change</i> , 2011 , 77, 85-96	4.2	1163
38	The Arctic's rapidly shrinking sea ice cover: a research synthesis. <i>Climatic Change</i> , 2012 , 110, 1005-1027	4.5	999
37	Perspectives on the Arctic's shrinking sea-ice cover. <i>Science</i> , 2007 , 315, 1533-6	33.3	973
36	The Arctic Amplification Debate. <i>Climatic Change</i> , 2006 , 76, 241-264	4.5	716
35	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	681
34	Icelandic Low Cyclone Activity: Climatological Features, Linkages with the NAO, and Relationships with Recent Changes in the Northern Hemisphere Circulation. <i>Journal of Climate</i> , 1997 , 10, 453-464	4.4	399
33	Arctic Sea Ice Extent Plummets in 2007. <i>Eos</i> , 2008 , 89, 13	1.5	356
32	History of sea ice in the Arctic. <i>Quaternary Science Reviews</i> , 2010 , 29, 1757-1778	3.9	295
31	Trends in Northern Hemisphere Surface Cyclone Frequency and Intensity. <i>Journal of Climate</i> , 2001 , 14, 2763-2768	4.4	294
30	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010 , 23, 5715-5737	4.4	253
29	Arctic sea ice trends, variability and implications for seasonal ice forecasting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	214
28	Arctic amplification: can the past constrain the future?. <i>Quaternary Science Reviews</i> , 2010 , 29, 1779-1790	3.9	190
27	The large-scale energy budget of the Arctic. <i>Journal of Geophysical Research</i> , 2007 , 112,		184
26	Climatological aspects of cyclone development and decay in the Arctic. <i>Atmosphere - Ocean</i> , 1995 , 33, 1-23	1.5	182
25	Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011 , 40, 32-45	6.5	129
24	The Summer Cyclone Maximum over the Central Arctic Ocean. <i>Journal of Climate</i> , 2008 , 21, 1048-1065	4.4	124

23	Recent changes in tropospheric water vapor over the Arctic as assessed from radiosondes and atmospheric reanalyses. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		118
22	Synoptic Activity in the Arctic Basin, 1979-85. <i>Journal of Climate</i> , 1988 , 1, 1276-1295	4.4	90
21	Characteristics of the Beaufort Sea High. <i>Journal of Climate</i> , 2011 , 24, 159-182	4.4	85
20	Variability, trends, and predictability of seasonal sea ice retreat and advance in the Chukchi Sea. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 7308-7325	3.3	83
19	Effects of Variations in East Asian Snow Cover on Modulating Atmospheric Circulation over the North Pacific Ocean. <i>Journal of Climate</i> , 2000 , 13, 3700-3710	4.4	81
18	Seasonal variations in sea ice motion and effects on sea ice concentration in the Canada Basin. <i>Journal of Geophysical Research</i> , 1989 , 94, 10955		79
17	The Arctic's sea ice cover: trends, variability, predictability, and comparisons to the Antarctic. <i>Annals of the New York Academy of Sciences</i> , 2019 , 1436, 36-53	6.5	73
16	Simulated Arctic Ocean Freshwater Budgets in the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2006 , 19, 6221-6242	4.4	64
15	Diagnosis of the record minimum in Arctic sea ice area during 1990 and associated snow cover extremes. <i>Geophysical Research Letters</i> , 1995 , 22, 2183-2186	4.9	59
14	Characteristics of winter cyclone activity in the northern North Atlantic: Insights from observations and regional modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		51
13	Local and large-scale atmospheric responses to reduced Arctic sea ice and ocean warming in the WRF model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		45
12	Summer atmospheric circulation anomalies over the Arctic Ocean and their influences on September sea ice extent: A cautionary tale. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,463	4.4	44
11	Does the Summer Arctic Frontal Zone Influence Arctic Ocean Cyclone Activity?. <i>Journal of Climate</i> , 2016 , 29, 4977-4993	4.4	38
10	The distribution and transport of atmospheric water vapour over the Arctic Basin. <i>International Journal of Climatology</i> , 1995 , 15, 709-727	3.5	28
9	Extreme daily precipitation events at Spitsbergen, an Arctic Island. <i>International Journal of Climatology</i> , 2015 , 35, 4574-4588	3.5	23
8	Monthly Variability in Bering Strait Oceanic Volume and Heat Transports, Links to Atmospheric Circulation and Ocean Temperature, and Implications for Sea Ice Conditions. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 9317-9337	3.3	23
7	Projected Changes in the Arctic Frontal Zone and Summer Arctic Cyclone Activity in the CESM Large Ensemble. <i>Journal of Climate</i> , 2017 , 30, 9847-9869	4.4	16
6	Impacts of synoptic-scale cyclones on Arctic sea-ice concentration: a systematic analysis. <i>Annals of Glaciology</i> , 2020 , 61, 139-153	2.5	16

5	Seasonal variations of sea ice motion in the transpolar drift stream. <i>Geophysical Research Letters</i> , 1989 , 16, 811-814	4.9	11
4	Modulation of Sea Ice Melt Onset and Retreat in the Laptev Sea by the Timing of Snow Retreat in the West Siberian Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8691-8707	4.4	7
3	June cloud cover over the Arctic Ocean. <i>Geophysical Research Letters</i> , 1990 , 17, 2397-2400	4.9	5
2	Rapid wastage of the Hazen Plateau ice caps, northeastern Ellesmere Island, Nunavut, Canada. <i>Cryosphere</i> , 2017 , 11, 169-177	5.5	3
1	Statistical Modeling of the Bering Strait Throughflow for Operational Sea Ice Forecasting in the Chukchi Sea. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092939	4.9	1