

Mark C Serreze

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

11,595
citations

147801

31
h-index

276875

41
g-index

43
all docs

43
docs citations

43
times ranked

10372
citing authors

#	ARTICLE	IF	CITATIONS
1	Processes and impacts of Arctic amplification: A research synthesis. <i>Global and Planetary Change</i> , 2011, 77, 85-96.	3.5	1,611
2	Arctic sea ice decline: Faster than forecast. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1,459
3	The Arctic's rapidly shrinking sea ice cover: a research synthesis. <i>Climatic Change</i> , 2012, 110, 1005-1027.	3.6	1,277
4	Perspectives on the Arctic's Shrinking Sea-Ice Cover. <i>Science</i> , 2007, 315, 1533-1536.	12.6	1,123
5	The Arctic Amplification Debate. <i>Climatic Change</i> , 2006, 76, 241-264.	3.6	883
6	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	817
7	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.	3.2	450
8	Arctic Sea Ice Extent Plummets in 2007. <i>Eos</i> , 2008, 89, 13-14.	0.1	409
9	History of sea ice in the Arctic. <i>Quaternary Science Reviews</i> , 2010, 29, 1757-1778.	3.0	343
10	Trends in Northern Hemisphere Surface Cyclone Frequency and Intensity. <i>Journal of Climate</i> , 2001, 14, 2763-2768.	3.2	329
11	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010, 23, 5715-5737.	3.2	303
12	Arctic sea ice trends, variability and implications for seasonal ice forecasting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140159.	3.4	256
13	Arctic amplification: can the past constrain the future?. <i>Quaternary Science Reviews</i> , 2010, 29, 1779-1790.	3.0	233
14	Climatological aspects of cyclone development and decay in the Arctic. <i>Atmosphere - Ocean</i> , 1995, 33, 1-23.	1.6	220
15	The large-scale energy budget of the Arctic. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	212
16	Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011, 40, 32-45.	5.5	169
17	The Summer Cyclone Maximum over the Central Arctic Ocean. <i>Journal of Climate</i> , 2008, 21, 1048-1065.	3.2	145
18	Recent changes in tropospheric water vapor over the Arctic as assessed from radiosondes and atmospheric reanalyses. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	136

#	ARTICLE	IF	CITATIONS
19	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.	3.8	134
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.	2.6	109
21	Characteristics of the Beaufort Sea High. <i>Journal of Climate</i> , 2011, 24, 159-182.	3.2	105
22	Synoptic Activity in the Arctic Basin, 1979-1985. <i>Journal of Climate</i> , 1988, 1, 1276-1295.	3.2	101
23	Seasonal variations in sea ice motion and effects on sea ice concentration in the Canada Basin. <i>Journal of Geophysical Research</i> , 1989, 94, 10955-10970.	3.3	96
24	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.	3.2	88
25	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.	4.0	79
26	Simulated Arctic Ocean Freshwater Budgets in the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2006, 19, 6221-6242.	3.2	70
27	Does the Summer Arctic Frontal Zone Influence Arctic Ocean Cyclone Activity?. <i>Journal of Climate</i> , 2016, 29, 4977-4993.	3.2	63
28	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.	3.3	55
29	Characteristics of winter cyclone activity in the northern North Atlantic: Insights from observations and regional modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	53
30	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.	3.3	52
31	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.	2.6	34
32	Extreme daily precipitation events at Spitsbergen, an Arctic Island. <i>International Journal of Climatology</i> , 2015, 35, 4574-4588.	3.5	33
33	Impacts of synoptic-scale cyclones on Arctic sea-ice concentration: a systematic analysis. <i>Annals of Glaciology</i> , 2020, 61, 139-153.	1.4	32
34	The distribution and transport of atmospheric water vapour over the Arctic Basin. <i>International Journal of Climatology</i> , 1995, 15, 709-727.	3.5	31
35	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.	3.2	21
36	Arctic rain on snow events: bridging observations to understand environmental and livelihood impacts. <i>Environmental Research Letters</i> , 2021, 16, 105009.	5.2	20

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37	Seasonal variations of sea ice motion in the transpolar drift stream. <i>Geophysical Research Letters</i> , 1989, 16, 811-814.	4.0	18
38	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.	3.3	9
39	June cloud cover over the Arctic Ocean. <i>Geophysical Research Letters</i> , 1990, 17, 2397-2400.	4.0	8
40	Rapid wastage of the Hazen Plateau ice caps, northeastern Ellesmere Island, Nunavut, Canada. <i>Cryosphere</i> , 2017, 11, 169-177.	3.9	8
41	Statistical Modeling of the Bering Strait Throughflow for Operational Sea Ice Forecasting in the Chukchi Sea. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092939.	4.0	1