

Julienne C Stroeve

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

14,797
citations

53794

45
h-index

38395

95
g-index

102
all docs

102
docs citations

102
times ranked

10948
citing authors

#	ARTICLE	IF	CITATIONS
1	Shine a light: Under-ice light and its ecological implications in a changing Arctic Ocean. <i>Ambio</i> , 2022, 51, 307-317.	5.5	18
2	Overview of the MOSAiC expedition: Snow and sea ice. <i>Elementa</i> , 2022, 10, .	3.2	91
3	Reduced Sea Ice Enhances Intensification of Winter Storms over the Arctic Ocean. <i>Journal of Climate</i> , 2022, 35, 3353-3370.	3.2	9
4	Under-Ice Light Field in the Western Arctic Ocean During Late Summer. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	6
5	Freshwater Input and Vertical Mixing in the Canada Basin's Seasonal Halocline: 1975 versus 2006-12. <i>Journal of Physical Oceanography</i> , 2022, 52, 1383-1396.	1.7	2
6	Increasing Multiyear Sea Ice Loss in the Beaufort Sea: A New Export Pathway for the Diminishing Multiyear Ice Cover of the Arctic Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
7	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
8	Extreme Precipitation in the Eastern Canadian Arctic and Greenland: An Evaluation of Atmospheric Reanalyses. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	6
9	Snowfall and snow accumulation during the MOSAiC winter and spring seasons. <i>Cryosphere</i> , 2022, 16, 2373-2402.	3.9	17
10	A baseline evaluation of atmospheric and river discharge conditions in the Hudson Bay Complex during 2016-2018. <i>Elementa</i> , 2021, 9, .	3.2	4
11	Sediment-laden sea ice in southern Hudson Bay: Entrainment, transport, and biogeochemical implications. <i>Elementa</i> , 2021, 9, .	3.2	12
12	Inter-comparison of snow depth over Arctic sea ice from reanalysis reconstructions and satellite retrieval. <i>Cryosphere</i> , 2021, 15, 345-367.	3.9	26
13	A Multi-Sensor and Modeling Approach for Mapping Light Under Sea Ice During the Ice-Growth Season. <i>Frontiers in Marine Science</i> , 2021, 7, .	2.5	18
14	Arctic sea ice melt onset favored by an atmospheric pressure pattern reminiscent of the North American-Eurasian Arctic pattern. <i>Climate Dynamics</i> , 2021, 57, 1771-1787.	3.8	8
15	Simulated Ka- and Ku-band radar altimeter height and freeboard estimation on snow-covered Arctic sea ice. <i>Cryosphere</i> , 2021, 15, 1811-1822.	3.9	3
16	Faster decline and higher variability in the sea ice thickness of the marginal Arctic seas when accounting for dynamic snow cover. <i>Cryosphere</i> , 2021, 15, 2429-2450.	3.9	26
17	Arctic open-water periods are projected to lengthen dramatically by 2100. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	26
18	Estimating instantaneous sea-ice dynamics from space using the bi-static radar measurements of Earth Explorer 10 candidate Harmony. <i>Cryosphere</i> , 2021, 15, 3101-3118.	3.9	4

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19	Record winter winds in 2020/21 drove exceptional Arctic sea ice transport. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	12
20	Arctic rain on snow events: bridging observations to understand environmental and livelihood impacts. <i>Environmental Research Letters</i> , 2021, 16, 105009.	5.2	20
21	Simulated impacts of relative climate change and river discharge regulation on sea ice and oceanographic conditions in the Hudson Bay Complex. <i>Elementa</i> , 2021, 9, .	3.2	1
22	Surface Salinity Under Transitioning Ice Cover in the Canada Basin: Climate Model Biases Linked to Vertical Distribution of Fresh Water. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094739.	4.0	12
23	Impacts of snow data and processing methods on the interpretation of long-term changes in Baffin Bay early spring sea ice thickness. <i>Cryosphere</i> , 2021, 15, 4909-4927.	3.9	7
24	New climate models reveal faster and larger increases in Arctic precipitation than previously projected. <i>Nature Communications</i> , 2021, 12, 6765.	12.8	102
25	Sea-ice information and forecast needs for industry maritime stakeholders. <i>Polar Geography</i> , 2020, 43, 160-187.	1.9	24
26	A Bayesian Logistic Regression for Probabilistic Forecasts of the Minimum September Arctic Sea Ice Cover. <i>Earth and Space Science</i> , 2020, 7, e2020EA001176.	2.6	13
27	A Lagrangian Snow Evolution System for Sea Ice Applications (SnowModel-ELG): Part I Model Description. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015913.	2.6	60
28	A Lagrangian Snow Evolution System for Sea Ice Applications (SnowModel-ELG): Part II Analyses. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015900.	2.6	39
29	Platelet Ice Under Arctic Pack Ice in Winter. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088898.	4.0	17
30	Snow and Ice Thickness Retrievals Using GNSS-R: Preliminary Results of the MOSAiC Experiment. <i>Remote Sensing</i> , 2020, 12, 4038.	4.0	29
31	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
32	Regional September Sea Ice Forecasting with Complex Networks and Gaussian Processes. <i>Weather and Forecasting</i> , 2020, 35, 793-806.	1.4	9
33	Sea Ice Roughness Overlooked as a Key Source of Uncertainty in CryoSat-2 Ice Freeboard Retrievals. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015820.	2.6	45
34	Machine learning approaches to retrieve pan-Arctic melt ponds from visible satellite imagery. <i>Remote Sensing of Environment</i> , 2020, 247, 111919.	11.0	23
35	Brief communication: Conventional assumptions involving the speed of radar waves in snow introduce systematic underestimates to sea ice thickness and seasonal growth rate estimates. <i>Cryosphere</i> , 2020, 14, 251-260.	3.9	26
36	Atmospheric Forcing Drives the Winter Sea Ice Thickness Asymmetry of Hudson Bay. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015756.	2.6	18

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37	Arctic Ocean Precipitation From Atmospheric Reanalyses and Comparisons With North Pole Drifting Station Records. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015415.	2.6	33
38	Surface-based Ku- and Ka-band polarimetric radar for sea ice studies. <i>Cryosphere</i> , 2020, 14, 4405-4426.	3.9	18
39	Physical length scales of wind-blown snow redistribution and accumulation on relatively smooth Arctic first-year sea ice. <i>Environmental Research Letters</i> , 2019, 14, 104003.	5.2	11
40	The polar regions in a 2°C warmer world. <i>Science Advances</i> , 2019, 5, eaaw9883.	10.3	289
41	Greenland monthly precipitation analysis from the Arctic System Reanalysis (ASR): 2000–2012. <i>Polar Science</i> , 2019, 19, 1-12.	1.2	19
42	Seasonal and Regional Manifestation of Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2018, 31, 4917-4932.	3.2	288
43	Estimating snow depth over Arctic sea ice from calibrated dual-frequency radar freeboards. <i>Cryosphere</i> , 2018, 12, 3551-3564.	3.9	60
44	Warm winter, thin ice?. <i>Cryosphere</i> , 2018, 12, 1791-1809.	3.9	41
45	The Trajectory Towards a Seasonally Ice-Free Arctic Ocean. <i>Current Climate Change Reports</i> , 2018, 4, 407-416.	8.6	70
46	Changing state of Arctic sea ice across all seasons. <i>Environmental Research Letters</i> , 2018, 13, 103001.	5.2	594
47	Appreciation of 2017 GRL Peer Reviewers. <i>Geophysical Research Letters</i> , 2018, 45, 4494-4528.	4.0	0
48	The Arctic sea ice cover of 2016: a year of record-low highs and higher-than-expected lows. <i>Cryosphere</i> , 2018, 12, 433-452.	3.9	56
49	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
50	Skillful spring forecasts of September Arctic sea ice extent using passive microwave sea ice observations. <i>Earth's Future</i> , 2017, 5, 254-263.	6.3	45
51	Sea Ice Loss and Arctic Cyclone Activity from 1979 to 2014. <i>Journal of Climate</i> , 2017, 30, 4735-4754.	3.2	58
52	Ice and Snow Thickness Variability and Change in the High Arctic Ocean Observed by In Situ Measurements. <i>Geophysical Research Letters</i> , 2017, 44, 10,462.	4.0	37
53	Fram Strait sea ice export variability and September Arctic sea ice extent over the last 80 years. <i>Cryosphere</i> , 2017, 11, 65-79.	3.9	141
54	Investigating the local-scale influence of sea ice on Greenland surface melt. <i>Cryosphere</i> , 2017, 11, 2363-2381.	3.9	22

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55	Relating the Age of Arctic Sea Ice to its Thickness, as Measured during NASA's ICESat and IceBridge Campaigns. <i>Remote Sensing</i> , 2016, 8, 457.	4.0	54
56	400 predictions: the SEARCH Sea Ice Outlook 2008–2015. <i>Polar Geography</i> , 2016, 39, 274-287.	1.9	37
57	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
58	Atmospheric drivers of Greenland surface melt revealed by self-organizing maps. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5095-5114.	3.3	36
59	The Impact of the Extreme Winter 2015/16 Arctic Cyclone on the Barents–Kara Seas. <i>Monthly Weather Review</i> , 2016, 144, 4279-4287.	1.4	98
60	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
61	Observed Arctic sea-ice loss directly follows anthropogenic CO ₂ emission. <i>Science</i> , 2016, 354, 747-750.	12.6	389
62	Sea ice, rain-on-snow and tundra reindeer nomadism in Arctic Russia. <i>Biology Letters</i> , 2016, 12, 20160466.	2.3	110
63	Using timing of ice retreat to predict timing of fall freeze-up in the Arctic. <i>Geophysical Research Letters</i> , 2016, 43, 6332-6340.	4.0	57
64	Melt onset over Arctic sea ice controlled by atmospheric moisture transport. <i>Geophysical Research Letters</i> , 2016, 43, 6636-6642.	4.0	127
65	Melting ice, growing trade?. <i>Elementa</i> , 2016, 4, .	3.2	13
66	The Arctic is becoming warmer and wetter as revealed by the Atmospheric Infrared Sounder. <i>Geophysical Research Letters</i> , 2015, 42, 4439-4446.	4.0	133
67	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
68	Insights on past and future sea-ice evolution from combining observations and models. <i>Global and Planetary Change</i> , 2015, 135, 119-132.	3.5	97
69	Improving Predictions of Arctic Sea Ice Extent. <i>Eos</i> , 2015, 96, .	0.1	23
70	Using records from submarine, aircraft and satellites to evaluate climate model simulations of Arctic sea ice thickness. <i>Cryosphere</i> , 2014, 8, 1839-1854.	3.9	121
71	Future Arctic climate changes: Adaptation and mitigation time scales. <i>Earth's Future</i> , 2014, 2, 68-74.	6.3	224
72	Predicting September sea ice: Ensemble skill of the SEARCH Sea Ice Outlook 2008-2013. <i>Geophysical Research Letters</i> , 2014, 41, 2411-2418.	4.0	154

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73	Changes in Arctic melt season and implications for sea ice loss. <i>Geophysical Research Letters</i> , 2014, 41, 1216-1225.	4.0	531
74	Temperature and vegetation seasonality diminishment over northern lands. <i>Nature Climate Change</i> , 2013, 3, 581-586.	18.8	485
75	Greenland ice sheet albedo feedback: thermodynamics and atmospheric drivers. <i>Cryosphere</i> , 2012, 6, 821-839.	3.9	327
76	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
77	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	817
78	Simulated Siberian snow cover response to observed Arctic sea ice loss, 1979–2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
79	The Arctic's rapidly shrinking sea ice cover: a research synthesis. <i>Climatic Change</i> , 2012, 110, 1005-1027.	3.6	1,277
80	Sea ice response to an extreme negative phase of the Arctic Oscillation during winter 2009/2010. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	149
81	Changing seasonal sea ice predictor relationships in a changing Arctic climate. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	68
82	Distribution and trends in Arctic sea ice age through spring 2011. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	528
83	Solar partitioning in a changing Arctic sea-ice cover. <i>Annals of Glaciology</i> , 2011, 52, 192-196.	1.4	116
84	Attribution of recent changes in autumn cyclone associated precipitation in the Arctic. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011, 63, 653-663.	1.7	34
85	Tracking the Movement and Changing Surface Characteristics of Arctic Sea Ice. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010, 3, 536-540.	4.9	61
86	The emergence of surface-based Arctic amplification. <i>Cryosphere</i> , 2009, 3, 11-19.	3.9	923
87	Recent changes in Arctic sea ice melt onset, freezeup, and melt season length. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	517
88	Arctic Sea Ice Extent Plummets in 2007. <i>Eos</i> , 2008, 89, 13-14.	0.1	409
89	Comparison of sea-ice extent and ice-edge location estimates from passive microwave and enhanced-resolution scatterometer data. <i>Annals of Glaciology</i> , 2008, 48, 65-70.	1.4	49
90	Whither Arctic sea ice? A clear signal of decline regionally, seasonally and extending beyond the satellite record. <i>Annals of Glaciology</i> , 2007, 46, 428-434.	1.4	172

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91	Perspectives on the Arctic's Shrinking Sea-Ice Cover. <i>Science</i> , 2007, 315, 1533-1536.	12.6	1,123
92	Arctic sea ice decline: Faster than forecast. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	1,459
93	A younger, thinner Arctic ice cover: Increased potential for rapid, extensive sea-ice loss. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	593
94	A record minimum arctic sea ice extent and area in 2002. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	270
95	Assessment of Greenland albedo variability from the advanced very high resolution radiometer Polar Pathfinder data set. <i>Journal of Geophysical Research</i> , 2001, 106, 33989-34006.	3.3	41
96	A linear mixed effects model for seasonal forecasts of Arctic sea ice retreat. <i>Polar Geography</i> , 0, , 1-18.	1.9	1
97	Sub-kilometre scale distribution of snow depth on Arctic sea ice from Soviet drifting stations. <i>Journal of Glaciology</i> , 0, , 1-13.	2.2	1