James A Screen

List of Publications by Year
in descending order

74 papers	10,432 citations	66234 42 h-index	71532 76 g-index
83 all docs	83 docs citations	83 times ranked	8557 citing authors

#	Article	IF	Citations
1	The central role of diminishing sea ice in recent Arctic temperature amplification. Nature, 2010, 464, 1334-1337.	13.7	1,733
2	Recent Arctic amplification and extreme mid-latitude weather. Nature Geoscience, 2014, 7, 627-637.	5.4	1,729
3	Insights from Earth system model initial-condition large ensembles and future prospects. Nature Climate Change, 2020, 10, 277-286.	8.1	436
4	Exploring links between Arctic amplification and midâ€latitude weather. Geophysical Research Letters, 2013, 40, 959-964.	1.5	336
5	The impact of Arctic warming on the midlatitude jetâ€stream: Can it? Has it? Will it?. Wiley Interdisciplinary Reviews: Climate Change, 2015, 6, 277-286.	3.6	326
6	The Atmospheric Response to Three Decades of Observed Arctic Sea Ice Loss. Journal of Climate, 2013, 26, 1230-1248.	1.2	314
7	Arctic amplification decreases temperature variance in northern mid- to high-latitudes. Nature Climate Change, 2014, 4, 577-582.	8.1	296
8	Increasing fallâ€winter energy loss from the Arctic Ocean and its role in Arctic temperature amplification. Geophysical Research Letters, 2010, 37, .	1.5	279
9	Amplified mid-latitude planetary waves favour particular regional weather extremes. Nature Climate Change, 2014, 4, 704-709.	8.1	273
10	Nonlinear response of mid-latitude weather to the changing Arctic. Nature Climate Change, 2016, 6, 992-999.	8.1	268
11	Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. Nature Geoscience, 2018, 11, 155-163.	5.4	265
12	Local and remote controls on observed Arctic warming. Geophysical Research Letters, 2012, 39, .	1.5	264
13	Atmospheric impacts of Arctic sea-ice loss, 1979â€“2009: separating forced change from atmospheric internal variability. Climate Dynamics, 2014, 43, 333-344.	1.7	225
14	Minimal influence of reduced Arctic sea ice on coincident cold winters in mid-latitudes. Nature Climate Change, 2019, 9, 697-704.	8.1	199
15	The atmospheric role in the Arctic water cycle: A review on processes, past and future changes, and their impacts. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 586-620.	1.3	197
16	The Polar Amplification Model Intercomparison Project (PAMIP) contribution to CMIP6: investigating the causes and consequences of polar amplification. Geoscientific Model Development, 2019, 12, 1139-1164.	1.3	168
17	Contribution of sea-ice loss to Arctic amplification is regulated by Pacific Ocean decadal variability. Nature Climate Change, 2016, 6, 856-860.	8.1	164
18	Potential influences on the United Kingdom's floods of winter 2013/14. Nature Climate Change, 2014, 4, 769-777.	8.1	149

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19	Does ocean coupling matter for the northern extratropical response to projected Arctic sea ice loss?. Geophysical Research Letters, 2016, 43, 2149-2157.	1.5	133
20	Simulated Atmospheric Response to Regional and Pan-Arctic Sea Ice Loss. Journal of Climate, 2017, 30, 3945-3962.	1.2	132
21	Revisiting the Cause of the 1989â€“2009 Arctic Surface Warming Using the Surface Energy Budget: Downward Infrared Radiation Dominates the Surface Fluxes. Geophysical Research Letters, 2017, 44, 10,654.	1.5	129
22	Declining summer snowfall in the Arctic: causes, impacts and feedbacks. Climate Dynamics, 2012, 38, 2243-2256.	1.7	128
23	Polar Climate Change as Manifest in Atmospheric Circulation. Current Climate Change Reports, 2018, 4, 383-395.	2.8	123
24	Dramatic interannual changes of perennial Arctic sea ice linked to abnormal summer storm activity. Journal of Geophysical Research, 2011, 116, .	3.3	121
25	Influence of Arctic sea ice on European summer precipitation. Environmental Research Letters, 2013, 8, 044015.	2.2	118
26	Insignificant effect of Arctic amplification on the amplitude of midlatitude atmospheric waves. Science Advances, 2020, 6, eaay2880.	4.7	118
27	Reduced Risk of North American Cold Extremes due to Continued Arctic Sea Ice Loss. Bulletin of the American Meteorological Society, 2015, 96, 1489-1503.	1.7	108
28	New climate models reveal faster and larger increases in Arctic precipitation than previously projected. Nature Communications, 2021, 12, 6765.	5.8	102
29	Erroneous Arctic Temperature Trends in the ERA-40 Reanalysis: A Closer Look. Journal of Climate, 2011, 24, 2620-2627.	1.2	98
30	The Role of Eddies in the Southern Ocean Temperature Response to the Southern Annular Mode. Journal of Climate, 2009, 22, 806-818.	1.2	95
31	The influence of weather regimes on European renewable energy production and demand. Environmental Research Letters, 2019, 14, 094010.	2.2	80
32	Modeling the Arctic freshwater system and its integration in the global system: Lessons learned and future challenges. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 540-566.	1.3	79
33	The missing Northern European winter cooling response to Arctic sea ice loss. Nature Communications, 2017, 8, 14603.	5.8	75
34	Weakened evidence for mid-latitude impacts of Arctic warming. Nature Climate Change, 2020, 10, 1065-1066.	8.1	75
35	Pacific Ocean Variability Influences the Time of Emergence of a Seasonally Iceâ€Free Arctic Ocean. Geophysical Research Letters, 2019, 46, 2222-2231.	1.5	68
36	Robust but weak winter atmospheric circulation response to future Arctic sea ice loss. Nature Communications, 2022, 13, 727.	5.8	67

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37	Caution needed when linking weather extremes to amplified planetary waves. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2327.	3.3	60
38	Projected changes in regional climate extremes arising from Arctic sea ice loss. Environmental Research Letters, 2015, 10, 084006.	2.2	59
39	Influence of Arctic Sea Ice Loss in Autumn Compared to That in Winter on the Atmospheric Circulation. Geophysical Research Letters, 2019, 46, 2213-2221.	1.5	56
40	Future Arctic sea ice loss reduces severity of cold air outbreaks in midlatitudes. Geophysical Research Letters, 2016, 43, 2801-2809.	1.5	50
41	Ice-free Arctic at 1.5 Â°C?. Nature Climate Change, 2017, 7, 230-231.	8.1	48
42	Nonstationary Relationship Between Autumn Arctic Sea Ice and the Winter North Atlantic Oscillation. Geophysical Research Letters, 2019, 46, 7583-7591.	1.5	48
43	Links Between Barentsâ€Kara Sea Ice and the Extratropical Atmospheric Circulation Explained by Internal Variability and Tropical Forcing. Geophysical Research Letters, 2020, 47, e2019GL085679.	1.5	47
44	Ensemble climate-impact modelling: extreme impacts from moderate meteorological conditions. Environmental Research Letters, 2020, 15, 034050.	2.2	47
45	Disciplines, Geography, and Gender in the Framing of Climate Change. Bulletin of the American Meteorological Society, 2010, 91, 997-1002.	1.7	45
46	Observed Statistical Connections Overestimate the Causal Effects of Arctic Sea Ice Changes on Midlatitude Winter Climate. Journal of Climate, 2021, 34, 3021-3038.	1.2	39
47	Far-flung effects of Arctic warming. Nature Geoscience, 2017, 10, 253-254.	5.4	38
48	Is sea-ice-driven Eurasian cooling too weak in models?. Nature Climate Change, 2019, 9, 934-936.	8.1	35
49	Climate Impacts of the Southern Annular Mode Simulated by the CMIP3 Models. Journal of Climate, 2009, 22, 3751-3768.	1.2	32
50	Oceanâ€"Atmosphere State Dependence of the Atmospheric Response to Arctic Sea Ice Loss. Journal of Climate, 2017, 30, 1537-1552.	1.2	27
51	How Robust is the Atmospheric Response to Projected Arctic Sea Ice Loss Across Climate Models?. Geophysical Research Letters, 2019, 46, 11406-11415.	1.5	24
52	Halfâ€century air temperature change above Antarctica: Observed trends and spatial reconstructions. Journal of Geophysical Research, 2012, 117, .	3.3	23
53	Atmospheric precursors of and response to anomalous Arctic sea ice in CMIP5 models. Advances in Atmospheric Sciences, 2018, 35, 27-37.	1.9	23
54	Arctic sea ice at 1.5 and 2 Â°C. Nature Climate Change, 2018, 8, 362-363.	8.1	22

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55	Multimodel Analysis of the Atmospheric Response to Antarctic Sea Ice Loss at Quadrupled CO₂. Geophysical Research Letters, 2019, 46, 9861-9869.	1.5	22
56	Mixed Layer Temperature Response to the Southern Annular Mode: Mechanisms and Model Representation. Journal of Climate, 2010, 23, 664-678.	1.2	20
57	Decreasing subseasonal temperature variability in the northern extratropics attributed to human influence. Nature Geoscience, 2021, 14, 719-723.	5.4	19
58	Interseasonal Connections between the Timing of the Stratospheric Final Warming and Arctic Sea Ice. Journal of Climate, 2020, 33, 3079-3092.	1.2	16
59	Amplified Waveguide Teleconnections Along the Polar Front Jet Favor Summer Temperature Extremes Over Northern Eurasia. Geophysical Research Letters, 2021, 48, e2021GL093735.	1.5	16
60	Arctic and Pacific Ocean Conditions Were Favorable for Cold Extremes over Eurasia and North America during Winter 2020/21. Bulletin of the American Meteorological Society, 2022, 103, E2285-E2301.	1.7	16
61	Sudden increase in Antarctic sea ice: Fact or artifact?. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	15
62	Diverse Eurasian Winter Temperature Responses to Barentsâ€Kara Sea Ice Anomalies of Different Magnitudes and Seasonality. Geophysical Research Letters, 2021, 48, e2021GL092726.	1.5	13
63	Natural drivers of multidecadal Arctic sea ice variability over the last millennium. Scientific Reports, 2020, 10, 688.	1.6	12
64	Distinct Tropospheric and Stratospheric Mechanisms Linking Historical Barentsâ€Kara Seaâ€Ice Loss and Late Winter Eurasian Temperature Variability. Geophysical Research Letters, 2021, 48, e2021GL095262.	1.5	11
65	The North Atlantic as a Driver of Summer Atmospheric Circulation. Journal of Climate, 2020, 33, 7335-7351.	1.2	11
66	Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. Journal of Climate, 2022, 35, 2327-2349.	1.2	9
67	Arctic Winter Temperature Variations Correlated With ENSO Are Dependent on Coincidental Sea Ice Changes. Geophysical Research Letters, 2021, 48, e2020GL091519.	1.5	8
68	High-Latitude Dynamics of Atmosphereâ€“Iceâ€“Ocean Interactions. Bulletin of the American Meteorological Society, 2016, 97, ES179-ES182.	1.7	7
69	Arctic change reduces risk of cold extremes. Science, 2022, 375, 729-729.	6.0	7
70	The Coupled Atmosphereâ€“Ocean Response to Antarctic Sea Ice Loss. Journal of Climate, 2022, 35, 4665-4685.	1.2	7
71	An iceâ€free Arctic: what could it mean for European weather?. Weather, 2021, 76, 327-328.	0.6	4
72	Aircraft condensation trails and cirrus. Weather, 2004, 59, 116-121.	0.6	3

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73	Reply to 'Drivers of the 2013/14 winter floods in the UK'. Nature Climate Change, 2015, 5, 491-492.	8.1	2
74	The Abisko Polar Prediction School. Bulletin of the American Meteorological Society, 2017, 98, 445-447.	1.7	2