James E Overland

List of Publications by Year
in descending order

106 papers	12,347 citations	26630 56 h-index	31849 101 g-index
107 all docs	107 docs citations	107 times ranked	11015 citing authors

#	Article	IF	Citations
1	Recent Arctic amplification and extreme mid-latitude weather. Nature Geoscience, 2014, 7, 627-637.	12.9	1,729
2	A sea ice free summer Arctic within 30 years?. Geophysical Research Letters, 2009, 36, .	4.0	524
3	Key indicators of Arctic climate change: 1971â€“2017. Environmental Research Letters, 2019, 14, 045010.	5.2	471
4	Large-scale atmospheric circulation changes are associated with the recent loss of Arctic sea ice. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 62, 1.	1.7	458
5	When will the summer Arctic be nearly sea ice free?. Geophysical Research Letters, 2013, 40, 2097-2101.	4.0	443
6	A Significance Test for Principal Components Applied to a Cyclone Climatology. Monthly Weather Review, 1982, 110, 1-4.	1.4	412
7	Warm Arcticâ€”cold continents: climate impacts of the newly open Arctic Sea. Polar Research, 2011, 30, 15787.	1.6	338
8	A sea ice free summer Arctic within 30Âyears: An update from CMIP5 models. Geophysical Research Letters, 2012, 39, .	4.0	324
9	Climate impacts on eastern Bering Sea foodwebs: a synthesis of new data and an assessment of the Oscillating Control Hypothesis. ICES Journal of Marine Science, 2011, 68, 1230-1243.	2.5	321
10	The Melting Arctic and Midlatitude Weather Patterns: Are They Connected?*. Journal of Climate, 2015, 28, 7917-7932.	3.2	320
11	Decadal Variability of the Aleutian Low and Its Relation to High-Latitude Circulation*. Journal of Climate, 1999, 12, 1542-1548.	3.2	313
12	Impacts of changing sea-ice conditions on Arctic marine mammals. Marine Biodiversity, 2011, 41, 181-194.	1.0	303
13	Application of a sequential regime shift detection method to the Bering Sea ecosystem. ICES Journal of Marine Science, 2005, 62, 328-332.	2.5	269
14	Nonlinear response of mid-latitude weather to the changing Arctic. Nature Climate Change, 2016, 6, 992-999.	18.8	268
15	The urgency of Arctic change. Polar Science, 2019, 21, 6-13.	1.2	247
16	Future Arctic climate changes: Adaptation and mitigation time scales. Earth's Future, 2014, 2, 68-74.	6.3	224
17	Evidence for a substantial increase in gelatinous zooplankton in the Bering Sea, with possible links to climate change. Fisheries Oceanography, 1999, 8, 296-306.	1.7	206
18	North Pacific regime shifts: Definitions, issues and recent transitions. Progress in Oceanography, 2008, 77, 92-102.	3.2	200

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19	The recent shift in early summer Arctic atmospheric circulation. Geophysical Research Letters, 2012, 39, .	4.0	196
20	A comparison of the physics of the northern and southern shelves of the eastern Bering Sea and some implications for the ecosystem. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 14-30.	1.4	170
21	Is the climate of the Bering Sea warming and affecting the ecosystem?. Eos, 2004, 85, 309.	0.1	163
22	The Arctic shifts to a new normal. Physics Today, 2013, 66, 35-40.	0.3	148
23	Cyclone Climatology of the Bering Sea and Its Relation to Sea Ice Extent. Monthly Weather Review, 1982, 110, 5-13.	1.4	127
24	Seasonal and Regional Variation of Pan-Arctic Surface Air Temperature over the Instrumental Record*. Journal of Climate, 2004, 17, 3263-3282.	3.2	127
25	Weakened Potential Vorticity Barrier Linked to Recent Winter Arctic Sea Ice Loss and Midlatitude Cold Extremes. Journal of Climate, 2019, 32, 4235-4261.	3.2	125
26	Climate controls on marine ecosystems and fish populations. Journal of Marine Systems, 2010, 79, 305-315.	2.1	124
27	A decade of environmental change in the Pacific Arctic region. Progress in Oceanography, 2015, 136, 12-31.	3.2	123
28	Bottom-up forcing and the decline of Steller sea lions (Eumetopias jubatus) in Alaska: assessing the ocean climate hypothesis. Fisheries Oceanography, 2007, 16, 46-67.	1.7	118
29	A framework for modelling fish and shellfish responses to future climate change. ICES Journal of Marine Science, 2009, 66, 1584-1594.	2.5	116
30	The Arctic snow and air temperature budget over sea ice during winter. Journal of Geophysical Research, 1991, 96, 4651-4662.	3.3	112
31	Ongoing Climate Change in the Arctic. Ambio, 2011, 40, 6-16.	5.5	111
32	Future regional Arctic sea ice declines. Geophysical Research Letters, 2007, 34, .	4.0	108
33	Early 20th century Arctic warming in retrospect. International Journal of Climatology, 2010, 30, 1269-1279.	3.5	99
34	Extreme weather and climate events in northern areas: A review. Earth-Science Reviews, 2020, 209, 103324.	9.1	92
35	Scale Analysis of Marine Winds in Straits and along Mountainous Coasts. Monthly Weather Review, 1984, 112, 2530-2534.	1.4	89
36	Detecting Arctic Climate Change Using Kï¿½ppen Climate Classification. Climatic Change, 2004, 67, 43-62.	3.6	88

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37	Considerations in the Selection of Global Climate Models for Regional Climate Projections: The Arctic as a Case Study*. Journal of Climate, 2011, 24, 1583-1597.	3.2	88
38	Future climate of the north Pacific Ocean. Eos, 2007, 88, 178-182.	0.1	86
39	Climate projections for selected large marine ecosystems. Journal of Marine Systems, 2010, 79, 258-266.	2.1	86
40	Climate forcing and the California Current ecosystem. ICES Journal of Marine Science, 2011, 68, 1199-1216.	2.5	82
41	Projected future duration of the sea-ice-free season in the Alaskan Arctic. Progress in Oceanography, 2015, 136, 50-59.	3.2	82
42	The Changing Arctic Cryosphere and Likely Consequences: An Overview. Ambio, 2011, 40, 111-118.	5.5	81
43	Recent Extreme Arctic Temperatures are due to a Split Polar Vortex. Journal of Climate, 2016, 29, 5609-5616.	3.2	80
44	Observations and Scale Analysis of Coastal Wind Jets. Monthly Weather Review, 1995, 123, 2934-2941.	1.4	77
45	The third Arctic climate pattern: 1930s and early 2000s. Geophysical Research Letters, 2005, 32, .	4.0	76
46	Arctic sea-ice change: a grand challenge of climate science. Journal of Glaciology, 2010, 56, 1115-1121.	2.2	76
47	Interpretation of North Pacific Variability as a Short- and Long-Memory Process*. Journal of Climate, 2001, 14, 4545-4559.	3.2	75
48	Future climate of the Bering and Chukchi Seas projected by global climate models. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 46-57.	1.4	74
49	Intrinsic versus Forced Variation in Coupled Climate Model Simulations over the Arctic during the Twentieth Century*. Journal of Climate, 2007, 20, 1093-1107.	3.2	73
50	Integrated Analysis of Physical and Biological Pan-Arctic Change. Climatic Change, 2004, 63, 291-322.	3.6	71
51	The 2020 Siberian heat wave. International Journal of Climatology, 2021, 41, E2341.	3.5	68
52	Gap Winds in the Strait of Juan de Fuca. Monthly Weather Review, 1981, 109, 2221-2233.	1.4	67
53	Atmospheric Structure and Momentum Balance during a Gap-Wind Event in Shelikof Strait, Alaska. Monthly Weather Review, 1989, 117, 1817-1833.	1.4	64
54	Sea-ice cover timing in the Pacific Arctic: The present and projections to mid-century by selected CMIP5 models. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 152, 22-34.	1.4	62

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55	Regime shifts and red noise in the North Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 582-588.	1.4	61
56	North Pacific Atmospheric and SST Anomalies in 1997: Links to ENSO?. Fisheries Oceanography, 2001, 10, 69-80.	1.7	58
57	Recent Bering Sea warm and cold events in a 95-year context. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 6-13.	1.4	58
58	The Influence of Coastal Orography: The Yakutat Storm. Monthly Weather Review, 1993, 121, 1388-1397.	1.4	54
59	Coastally Trapped Wind Reversals along the United States West Coast during the Warm Season. Part I: Climatology and Temporal Evolution. Monthly Weather Review, 1996, 124, 430-445.	1.4	54
60	The Coastal Observation and Simulation with Topography (COAST) Experiment. Bulletin of the American Meteorological Society, 1997, 78, 1941-1955.	3.3	53
61	Observations of Longitudinal Rolls in a Near Neutral Atmosphere. Monthly Weather Review, 1984, 112, 200-208.	1.4	51
62	Meteorology of the Beaufort Sea. Journal of Geophysical Research, 2009, 114, .	3.3	51
63	A difficult Arctic science issue: Midlatitude weather linkages. Polar Science, 2016, 10, 210-216.	1.2	50
64	A Numerical Study of the Circulation of the Bering Sea Basin and Exchange with the North Pacific Ocean. Journal of Physical Oceanography, 1994, 24, 736-758.	1.7	49
65	Climate change, teleconnection patterns, and regional processes forcing marine populations in the Pacific. Journal of Marine Systems, 2010, 79, 245-257.	2.1	49
66	Extreme Cold Events from East Asia to North America in Winter 2020/21: Comparisons, Causes, and Future Implications. Advances in Atmospheric Sciences, 2022, 39, 553-565.	4.3	44
67	Effects of the tropospheric largeâ€scale circulation on European winter temperatures during the period of amplified Arctic warming. International Journal of Climatology, 2020, 40, 509-529.	3.5	43
68	Anomalous Arctic surface wind patterns and their impacts on September sea ice minima and trend. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 18590.	1.7	42
69	Is there a â€œnew normalâ€•climate in the Beaufort Sea?. Polar Research, 2013, 32, 19552.	1.6	42
70	Spatial and temporal variability of the Aleutian climate. Fisheries Oceanography, 2005, 14, 3-21.	1.7	40
71	Causes of the Record-Breaking Pacific Northwest Heatwave, Late June 2021. Atmosphere, 2021, 12, 1434.	2.3	39
72	Recent Temperature Changes in the Western Arctic during Spring*. Journal of Climate, 2002, 15, 1702-1716.	3.2	38

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73	Accelerated decline of summer Arctic sea ice during 1850â€“2017 and the amplified Arctic warming during the recent decades. Environmental Research Letters, 2021, 16, 034015.	5.2	34
74	Increased Variability in the Early Winter Subarctic North American Atmospheric Circulation*. Journal of Climate, 2015, 28, 7297-7305.	3.2	33
75	The importance of episodic weather events to the ecosystem of the Bering Sea shelf. Fisheries Oceanography, 2005, 14, 97-111.	1.7	30
76	Arctic-midlatitude weather linkages in North America. Polar Science, 2018, 16, 1-9.	1.2	30
77	The Arctic. Bulletin of the American Meteorological Society, 2020, 101, S239-S286.	3.3	29
78	Prediction of Vessel Icing for Near-Freezing Sea Temperatures. Weather and Forecasting, 1990, 5, 62-77.	1.4	28
79	Resolving Future Arctic/Midlatitude Weather Connections. Earth's Future, 2018, 6, 1146-1152.	6.3	27
80	Recent increased warming of the Alaskan marine Arctic due to midlatitude linkages. Advances in Atmospheric Sciences, 2018, 35, 75-84.	4.3	26
81	The Polar Vortex and Extreme Weather: The Beast from the East in Winter 2018. Atmosphere, 2020, 11, 664.	2.3	22
82	Polar Lower-Latitude Linkages and Their Role in Weather and Climate Prediction. Bulletin of the American Meteorological Society, 2015, 96, ES197-ES200.	3.3	21
83	Less climatic resilience in the Arctic. Weather and Climate Extremes, 2020, 30, 100275.	4.1	21
84	Can Arctic warming influence UK extreme weather?. Weather, 2017, 72, 346-352.	0.7	17
85	An integrated index of recent pan-Arctic climate change. Environmental Research Letters, 2019, 14, 035006.	5.2	16
86	Impact of the winter polar vortex on greater North America. International Journal of Climatology, 2019, 39, 5815-5821.	3.5	15
87	Abrupt Climate Changes and Emerging Ice-Ocean Processes in the Pacific Arctic Region and the Bering Sea. , 2014, , 65-99.		14
88	Rare events in the Arctic. Climatic Change, 2021, 168, 1.	3.6	14
89	Change in the Arctic influence on Bering Sea climate during the twentieth century. International Journal of Climatology, 2006, 26, 531-539.	3.5	13
90	Anomalous blocking over Greenland preceded the 2013 extreme early melt of local sea ice. Annals of Glaciology, 2018, 59, 181-190.	1.4	13

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91	Is the melting Arctic changing midlatitude weather?. Physics Today, 2016, 69, 38-43.	0.3	12
92	Results of the First Arctic Heat Open Science Experiment. Bulletin of the American Meteorological Society, 2018, 99, 513-520.	3.3	11
93	Subseasonal atmospheric regimes and ocean background forcing of Pacific Arctic sea ice melt onset. Climate Dynamics, 2019, 52, 5657-5672.	3.8	11
94	The case for global warming in the Arctic. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 13-23.	0.2	9
95	Advances in Arctic Atmospheric Research. Atmospheric and Oceanographic Sciences Library, 2012, , 11-26.	0.1	9
96	The Alaskan Arctic regime shift since 2017: A harbinger of years to come?. Polar Science, 2022, 32, 100841.	1.2	8
97	Assessing Change-Points in Surface Air Temperature Over Alaska. Frontiers in Environmental Science, 2018, 6, .	3.3	7
98	100 Years of Progress in Polar Meteorology. Meteorological Monographs, 2018, 59, 21.1-21.36.	5.0	6
99	Recent and Future Changes in the Meteorology of the Pacific Arctic. , 2014, , 17-30.		6
100	Arctic change: multiple observations and recent understanding. Weather, 2006, 61, 78-83.	0.7	5
101	Impact of Model Physics on Seasonal Forecasts of Surface Air Temperature in the Arctic. Monthly Weather Review, 2017, 145, 773-782.	1.4	3
102	Communicating Arctic-midlatitude weather and ecosystem connections: direct observations and sources of intermittency. Environmental Research Letters, 2021, 16, 105006.	5.2	3
103	Potential Arctic connections to eastern North American cold winters. Czech Polar Reports, 2017, 7, 232-243.	0.6	2
104	Diminishing Sea Ice. Science, 2008, 321, 1443-1445.	12.6	0
105	Polarization and polar climate. Eos, 2012, 93, 390-390.	0.1	0
106	Frequency of Winter Coupled North Pacific/North America Circulation Regimes. Climate, 2022, 10, 54.	2.8	0