

Sharon E Stammerjohn

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

8,306
citations

53794

45
h-index

53230

85
g-index

96
all docs

96
docs citations

96
times ranked

5887
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate drives long-term change in Antarctic Silverfish along the western Antarctic Peninsula. <i>Communications Biology</i> , 2022, 5, 104.	4.4	11
2	Local and Large Scale Drivers of Variability in the Coastal Freshwater Budget of the Western Antarctic Peninsula. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017172.	2.6	10
3	Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 680-698.	29.7	85
4	Insights from the first global population estimate of Weddell seals in Antarctica. <i>Science Advances</i> , 2021, 7, eabh3674.	10.3	25
5	Engaging "the crowd"™ in remote sensing to learn about habitat affinity of the Weddell seal in Antarctica. <i>Remote Sensing in Ecology and Conservation</i> , 2020, 6, 70-78.	4.3	33
6	Modeling of the Influence of Sea Ice Cycle and Langmuir Circulation on the Upper Ocean Mixed Layer Depth and Freshwater Distribution at the West Antarctic Peninsula. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016109.	2.6	6
7	Global Drivers on Southern Ocean Ecosystems: Changing Physical Environments and Anthropogenic Pressures in an Earth System. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	79
8	Sea-ice production and air/ice/ocean/biogeochemistry interactions in the Ross Sea during the PIPERS 2017 autumn field campaign. <i>Annals of Glaciology</i> , 2020, 61, 181-195.	1.4	31
9	Recent climate trends. , 2020, , 241-257.		1
10	Warming reaches the South Pole. <i>Nature Climate Change</i> , 2020, 10, 710-711.	18.8	18
11	Physical and biological properties of early winter Antarctic sea ice in the Ross Sea. <i>Annals of Glaciology</i> , 2020, 61, 241-259.	1.4	9
12	Frazil ice growth and production during katabatic wind events in the Ross Sea, Antarctica. <i>Cryosphere</i> , 2020, 14, 3329-3347.	3.9	30
13	The interaction between island geomorphology and environmental parameters drives Adelie penguin breeding phenology on neighboring islands near Palmer Station, Antarctica. <i>Ecology and Evolution</i> , 2019, 9, 9334-9349.	1.9	11
14	Temporal variability in foraminiferal morphology and geochemistry at the West Antarctic Peninsula: a sediment trap study. <i>Biogeosciences</i> , 2019, 16, 3267-3282.	3.3	11
15	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. <i>Progress in Oceanography</i> , 2019, 173, 208-237.	3.2	102
16	Modeling the Seasonal Cycle of Iron and Carbon Fluxes in the Amundsen Sea Polynya, Antarctica. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1544-1565.	2.6	30
17	Environmental controls on pteropod biogeography along the Western Antarctic Peninsula. <i>Limnology and Oceanography</i> , 2019, 64, S240.	3.1	30
18	Physical and ecological factors explain the distribution of Ross Sea Weddell seals during the breeding season. <i>Marine Ecology - Progress Series</i> , 2019, 612, 193-208.	1.9	33

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19	Overview of the Arctic Sea State and Boundary Layer Physics Program. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8674-8687.	2.6	96
20	Episodic Reversal of Autumn Ice Advance Caused by Release of Ocean Heat in the Beaufort Sea. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3164-3185.	2.6	41
21	Shipboard Observations of the Meteorology and Near-Surface Environment During Autumn Freezeup in the Beaufort/Chukchi Seas. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4930-4969.	2.6	14
22	Stable Isotope Clues to the Formation and Evolution of Refrozen Melt Ponds on Arctic Sea Ice. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8887-8901.	2.6	8
23	West Antarctic Ice Sheet retreat in the Amundsen Sea driven by decadal oceanic variability. <i>Nature Geoscience</i> , 2018, 11, 733-738.	12.9	194
24	Antarctic ice shelf disintegration triggered by sea ice loss and ocean swell. <i>Nature</i> , 2018, 558, 383-389.	27.8	200
25	Changing distributions of sea ice melt and meteoric water west of the Antarctic Peninsula. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 139, 40-57.	1.4	54
26	Decadal variability in coastal phytoplankton community composition in a changing West Antarctic Peninsula. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 124, 42-54.	1.4	138
27	Drivers of interannual variability in virioplankton abundance at the coastal western Antarctic peninsula and the potential effects of climate change. <i>Environmental Microbiology</i> , 2017, 19, 740-755.	3.8	27
28	Springtime winds drive Ross Sea ice variability and change in the following autumn. <i>Nature Communications</i> , 2017, 8, 731.	12.8	40
29	The winter pack-ice zone provides a sheltered but food-poor habitat for larval Antarctic krill. <i>Nature Ecology and Evolution</i> , 2017, 1, 1853-1861.	7.8	96
30	Pathways and supply of dissolved iron in the Amundsen Sea (Antarctica). <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7135-7162.	2.6	42
31	Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. <i>BioScience</i> , 2016, 66, 864-879.	4.9	41
32	A review of recent changes in Southern Ocean sea ice, their drivers and forcings. <i>Global and Planetary Change</i> , 2016, 143, 228-250.	3.5	202
33	SIPEX 2012: Extreme sea-ice and atmospheric conditions off East Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 131, 7-21.	1.4	6
34	Emerging trends in the sea state of the Beaufort and Chukchi seas. <i>Ocean Modelling</i> , 2016, 105, 1-12.	2.4	78
35	The Impact of a Large-Scale Climate Event on Antarctic Ecosystem Processes. <i>BioScience</i> , 2016, 66, 848-863.	4.9	51
36	Using timing of ice retreat to predict timing of fall freezeup in the Arctic. <i>Geophysical Research Letters</i> , 2016, 43, 6332-6340.	4.0	57

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37	Lead Sources to the Amundsen Sea, West Antarctica. Environmental Science & Technology, 2016, 50, 6233-6239.	10.0	19
38	Particle flux on the continental shelf in the Amundsen Sea Polynya and Western Antarctic Peninsula. Elementa, 2015, 3, .	3.2	49
39	The record 2013 Southern Hemisphere sea-ice extent maximum. Annals of Glaciology, 2015, 56, 99-106.	1.4	22
40	Long-term (1993â€“2013) changes in macrozooplankton off the Western Antarctic Peninsula. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 101, 54-70.	1.4	143
41	An apparent population decrease, or change in distribution, of Weddell seals along the Victoria Land coast. Marine Mammal Science, 2015, 31, 1338-1361.	1.8	32
42	Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	3.2	42
43	Seasonal sea ice changes in the Amundsen Sea, Antarctica, over the period of 1979â€“2014. Elementa, 2015, 3, .	3.2	35
44	Freshwater distributions and water mass structure in the Amundsen Sea Polynya region, Antarctica. Elementa, 2015, 3, .	3.2	48
45	Effect of continental shelf canyons on phytoplankton biomass and community composition along the western Antarctic Peninsula. Marine Ecology - Progress Series, 2015, 524, 11-26.	1.9	48
46	Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. Nature Communications, 2014, 5, 4318.	12.8	231
47	Spatial variability of surface pCO_2 and air-sea CO_2 flux in the Amundsen Sea Polynya, Antarctica. Elementa, 2014, 3, .	3.2	26
48	Particulate iron delivery to the water column of the Amundsen Sea, Antarctica. Marine Chemistry, 2013, 153, 15-30.	2.3	56
49	West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. Oceanography, 2013, 26, 190-203.	1.0	249
50	Penguin Biogeography Along the West Antarctic Peninsula: Testing the Canyon Hypothesis with Palmer LTER Observations. Oceanography, 2013, 26, 204-206.	1.0	45
51	Change and Variability in East Antarctic Sea Ice Seasonality, 1979/80â€“2009/10. PLoS ONE, 2013, 8, e64756.	2.5	78
52	Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. Antarctic Research Series, 2013, , 131-144.	0.2	10
53	The Disappearing Cryosphere: Impacts and Ecosystem Responses to Rapid Cryosphere Loss. BioScience, 2012, 62, 405-415.	4.9	107
54	The role of Pine Island Glacier ice shelf basal channels in deep-water upwelling, polynyas and ocean circulation in Pine Island Bay, Antarctica. Annals of Glaciology, 2012, 53, 123-128.	1.4	58

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55	Regions of rapid sea ice change: An inter-hemispheric seasonal comparison. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	440
56	ASPIRE: The Amundsen Sea Polynya International Research Expedition. <i>Oceanography</i> , 2012, 25, 40-53.	1.0	116
57	Antarctic Sea Ice—A Polar Opposite?. <i>Oceanography</i> , 2012, 25, 140-151.	1.0	150
58	Multiscale control of bacterial production by phytoplankton dynamics and sea ice along the western Antarctic Peninsula: A regional and decadal investigation. <i>Journal of Marine Systems</i> , 2012, 98-99, 26-39.	2.1	82
59	The influence of winds, sea-surface temperature and precipitation anomalies on Antarctic regional sea-ice conditions during IPY 2007. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 999-1018.	1.4	23
60	Surface layer variability in the Ross Sea, Antarctica as assessed by in situ fluorescence measurements. <i>Progress in Oceanography</i> , 2011, 88, 28-45.	3.2	42
61	Changes in the freshwater composition of the upper ocean west of the Antarctic Peninsula during the first decade of the 21st century. <i>Progress in Oceanography</i> , 2010, 87, 127-143.	3.2	60
62	Antarctic sea ice change and variability — Physical and ecological implications. <i>Polar Science</i> , 2010, 4, 149-186.	1.2	254
63	Seasonal forcing of summer dissolved inorganic carbon and chlorophyll <i>a</i> on the western shelf of the Antarctic Peninsula. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
64	The Antarctic ozone hole and the Northern Annular Mode: A stratospheric interhemispheric connection. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	10
65	Recent Changes in Phytoplankton Communities Associated with Rapid Regional Climate Change Along the Western Antarctic Peninsula. <i>Science</i> , 2009, 323, 1470-1473.	12.6	579
66	West Antarctic Peninsula sea ice in 2005: Extreme ice compaction and ice edge retreat due to strong anomaly with respect to climate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
67	Trends in Antarctic annual sea ice retreat and advance and their relation to El Niño—Southern Oscillation and Southern Annular Mode variability. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	615
68	Particle export from the upper ocean over the continental shelf of the west Antarctic Peninsula: A long-term record, 1992—2007. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2118-2131.	1.4	56
69	Sea ice in the western Antarctic Peninsula region: Spatio-temporal variability from ecological and climate change perspectives. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2041-2058.	1.4	290
70	Bellingshausen and western Antarctic Peninsula region: Pigment biomass and sea-ice spatial/temporal distributions and interannual variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1949-1963.	1.4	84
71	Palmer LTER: Patterns of distribution of five dominant zooplankton species in the epipelagic zone west of the Antarctic Peninsula, 1993—2004. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2086-2105.	1.4	95
72	Western Antarctic Peninsula physical oceanography and spatio-temporal variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1964-1987.	1.4	256

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73	Primary production within the sea-ice zone west of the Antarctic Peninsula: Sea ice, summer mixed layer, and irradiance. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 2068-2085.	1.4	212
74	Marine pelagic ecosystems: the West Antarctic Peninsula. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 67-94.	4.0	529
75	Extreme Anomalous Atmospheric Circulation in the West Antarctic Peninsula Region in Austral Spring and Summer 2001/02, and Its Profound Impact on Sea Ice and Biota*. <i>Journal of Climate</i> , 2006, 19, 3544-3571.	3.2	114
76	Water-column processes in the West Antarctic Peninsula and the Ross Sea: Interannual variations and foodweb structure. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 834-852.	1.4	78
77	Winter sea-ice properties in Marguerite Bay, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004, 51, 2023-2039.	1.4	40
78	Ice-atmosphere interactions during sea-ice advance and retreat in the western Antarctic Peninsula region. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
79	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy ¹ . <i>American Zoologist</i> , 2001, 41, 40-56.	0.7	28
80	Variations of surface air temperature and sea-ice extent in the western Antarctic Peninsula region. <i>Annals of Glaciology</i> , 2001, 33, 493-500.	1.4	112
81	Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy. <i>American Zoologist</i> , 2001, 41, 40-56.	0.7	33
82	Marine Ecosystem Sensitivity to Climate Change. <i>BioScience</i> , 1999, 49, 393-404.	4.9	250
83	Exploring Sea Ice Indexes for Polar Ecosystem Studies. <i>BioScience</i> , 1998, 48, 83-93.	4.9	36
84	Variability in sea-ice coverage and ice-motion dynamics in the PAL LTER study region west of the Antarctic Peninsula. , 1998, , .		2
85	Opposing Southern Ocean Climate Patterns as Revealed by Trends in Regional Sea Ice Coverage. <i>Climatic Change</i> , 1997, 37, 617-639.	3.6	92
86	Spatial and temporal variability of western Antarctic Peninsula sea ice coverage. <i>Antarctic Research Series</i> , 1996, , 81-104.	0.2	57
87	Surface air temperature variations in the western Antarctic Peninsula region. <i>Antarctic Research Series</i> , 1996, , 105-121.	0.2	104