

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
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96
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96
docs citations

96
times ranked

5887
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Regions of rapid sea ice change: An inter-hemispheric seasonal comparison. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 440 |
| 5 | 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 |
| 6 | 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 |
| 7 | Antarctic sea ice change and variability – Physical and ecological implications. <i>Polar Science</i> , 2010, 4, 149-186. | 1.2 | 254 |
| 8 | Marine Ecosystem Sensitivity to Climate Change. <i>BioScience</i> , 1999, 49, 393-404. | 4.9 | 250 |
| 9 | West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. <i>Oceanography</i> , 2013, 26, 190-203. | 1.0 | 249 |
| 10 | Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. <i>Nature Communications</i> , 2014, 5, 4318. | 12.8 | 231 |
| 11 | 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 |
| 12 | 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 |
| 13 | Antarctic ice shelf disintegration triggered by sea ice loss and ocean swell. <i>Nature</i> , 2018, 558, 383-389. | 27.8 | 200 |
| 14 | 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 |
| 15 | Antarctic Sea Ice – A Polar Opposite?. <i>Oceanography</i> , 2012, 25, 140-151. | 1.0 | 150 |
| 16 | Long-term (1993–2013) changes in macrozooplankton off the Western Antarctic Peninsula. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 101, 54-70. | 1.4 | 143 |
| 17 | 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 |
| 18 | ASPIRE: The Amundsen Sea Polynya International Research Expedition. <i>Oceanography</i> , 2012, 25, 40-53. | 1.0 | 116 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | The Disappearing Cryosphere: Impacts and Ecosystem Responses to Rapid Cryosphere Loss. <i>BioScience</i> , 2012, 62, 405-415. | 4.9 | 107 |
| 22 | Surface air temperature variations in the western Antarctic Peninsula region. <i>Antarctic Research Series</i> , 1996, , 105-121. | 0.2 | 104 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 680-698. | 29.7 | 85 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Change and Variability in East Antarctic Sea Ice Seasonality, 1979/80-2009/10. <i>PLoS ONE</i> , 2013, 8, e64756. | 2.5 | 78 |
| 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 | 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 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | The role of Pine Island Glacier ice shelf basal channels in deep-water upwelling, polynyas and ocean circulation in Pine Island Bay, Antarctica. <i>Annals of Glaciology</i> , 2012, 53, 123-128. | 1.4 | 58 |
| 38 | Spatial and temporal variability of western Antarctic Peninsula sea ice coverage. <i>Antarctic Research Series</i> , 1996, , 81-104. | 0.2 | 57 |
| 39 | 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 |
| 40 | 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 |
| 41 | Particulate iron delivery to the water column of the Amundsen Sea, Antarctica. <i>Marine Chemistry</i> , 2013, 153, 15-30. | 2.3 | 56 |
| 42 | 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 |
| 43 | The Impact of a Large-Scale Climate Event on Antarctic Ecosystem Processes. <i>BioScience</i> , 2016, 66, 848-863. | 4.9 | 51 |
| 44 | 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 |
| 45 | Particle flux on the continental shelf in the Amundsen Sea Polynya and Western Antarctic Peninsula. <i>Elementa</i> , 2015, 3, . | 3.2 | 49 |
| 46 | Freshwater distributions and water mass structure in the Amundsen Sea Polynya region, Antarctica. <i>Elementa</i> , 2015, 3, . | 3.2 | 48 |
| 47 | Effect of continental shelf canyons on phytoplankton biomass and community composition along the western Antarctic Peninsula. <i>Marine Ecology - Progress Series</i> , 2015, 524, 11-26. | 1.9 | 48 |
| 48 | Penguin Biogeography Along the West Antarctic Peninsula: Testing the Canyon Hypothesis with Palmer LTER Observations. <i>Oceanography</i> , 2013, 26, 204-206. | 1.0 | 45 |
| 49 | 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 |
| 50 | 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 |
| 51 | Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. <i>Elementa</i> , 2015, 3, . | 3.2 | 42 |
| 52 | Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. <i>BioScience</i> , 2016, 66, 864-879. | 4.9 | 41 |
| 53 | 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 |
| 54 | 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 |

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|----|---|------|-----------|
| 55 | Springtime winds drive Ross Sea ice variability and change in the following autumn. <i>Nature Communications</i> , 2017, 8, 731. | 12.8 | 40 |
| 56 | Exploring Sea Ice Indexes for Polar Ecosystem Studies. <i>BioScience</i> , 1998, 48, 83-93. | 4.9 | 36 |
| 57 | Seasonal sea ice changes in the Amundsen Sea, Antarctica, over the period of 1979–2014. <i>Elementa</i> , 2015, 3, . | 3.2 | 35 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | An apparent population decrease, or change in distribution, of Weddell seals along the Victoria Land coast. <i>Marine Mammal Science</i> , 2015, 31, 1338-1361. | 1.8 | 32 |
| 62 | 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 |
| 63 | 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 |
| 64 | Environmental controls on pteropod biogeography along the Western Antarctic Peninsula. <i>Limnology and Oceanography</i> , 2019, 64, S240. | 3.1 | 30 |
| 65 | Frazil ice growth and production during katabatic wind events in the Ross Sea, Antarctica. <i>Cryosphere</i> , 2020, 14, 3329-3347. | 3.9 | 30 |
| 66 | Variability of Primary Production in an Antarctic Marine Ecosystem as Estimated Using a Multi-scale Sampling Strategy1. <i>American Zoologist</i> , 2001, 41, 40-56. | 0.7 | 28 |
| 67 | 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 |
| 68 | Spatial variability of surface CO ₂ and air-sea CO ₂ flux in the Amundsen Sea Polynya, Antarctica. <i>Elementa</i> , 2014, 3, . | 3.2 | 26 |
| 69 | Insights from the first global population estimate of Weddell seals in Antarctica. <i>Science Advances</i> , 2021, 7, eabh3674. | 10.3 | 25 |
| 70 | 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 |
| 71 | 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 |
| 72 | The record 2013 Southern Hemisphere sea-ice extent maximum. <i>Annals of Glaciology</i> , 2015, 56, 99-106. | 1.4 | 22 |

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|----|--|------|-----------|
| 73 | Lead Sources to the Amundsen Sea, West Antarctica. <i>Environmental Science & Technology</i> , 2016, 50, 6233-6239. | 10.0 | 19 |
| 74 | Warming reaches the South Pole. <i>Nature Climate Change</i> , 2020, 10, 710-711. | 18.8 | 18 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | Climate drives long-term change in Antarctic Silverfish along the western Antarctic Peninsula. <i>Communications Biology</i> , 2022, 5, 104. | 4.4 | 11 |
| 79 | The Antarctic ozone hole and the Northern Annular Mode: A stratospheric interhemispheric connection. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 10 |
| 80 | Palmer Long-Term Ecological Research on the Antarctic Marine Ecosystem. <i>Antarctic Research Series</i> , 2013, , 131-144. | 0.2 | 10 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | Variability in sea-ice coverage and ice-motion dynamics in the PAL LTER study region west of the Antarctic Peninsula. , 1998, , . | | 2 |
| 87 | Recent climate trends. , 2020, , 241-257. | | 1 |