

Sheldon Bacon

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

5,830
citations

66343

42
h-index

76900

74
g-index

88
all docs

88
docs citations

88
times ranked

5396
citing authors

#	ARTICLE	IF	CITATIONS
1	A sea change in our view of overturning in the subpolar North Atlantic. <i>Science</i> , 2019, 363, 516-521.	12.6	333
2	Freshwater and its role in the Arctic Marine System: Sources, disposition, storage, export, and physical and biogeochemical consequences in the Arctic and global oceans. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 675-717.	3.0	317
3	Arctic Ocean Warming Contributes to Reduced Polar Ice Cap. <i>Journal of Physical Oceanography</i> , 2010, 40, 2743-2756.	1.7	284
4	Western Arctic Ocean freshwater storage increased by wind-driven spin-up of the Beaufort Gyre. <i>Nature Geoscience</i> , 2012, 5, 194-197.	12.9	255
5	Reversal of the 1960s to 1990s freshening trend in the northeast North Atlantic and Nordic Seas. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	202
6	Labrador Sea Boundary Currents and the Fate of the Irminger Sea Water. <i>Journal of Physical Oceanography</i> , 2002, 32, 627-647.	1.7	186
7	Wave climate changes in the North Atlantic and North Sea. <i>International Journal of Climatology</i> , 1991, 11, 545-558.	3.5	179
8	Overtuning in the Subpolar North Atlantic Program: A New International Ocean Observing System. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 737-752.	3.3	173
9	The Rossby radius in the Arctic Ocean. <i>Ocean Science</i> , 2014, 10, 967-975.	3.4	160
10	A new concept for the paleoceanographic evolution of Heinrich event 1 in the North Atlantic. <i>Quaternary Science Reviews</i> , 2011, 30, 1047-1066.	3.0	158
11	Impact of Variable Atmospheric and Oceanic Form Drag on Simulations of Arctic Sea Ice*. <i>Journal of Physical Oceanography</i> , 2014, 44, 1329-1353.	1.7	152
12	The Arctic Circumpolar Boundary Current. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
13	Export of nutrients from the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1625-1644.	2.6	130
14	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	120
15	Arctic sea surface height variability and change from satellite radar altimetry and GRACE, 2003–2014. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4303-4322.	2.6	115
16	The Irminger Gyre: Circulation, convection, and interannual variability. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 590-614.	1.4	113
17	Tide-mediated warming of Arctic halocline by Atlantic heat fluxes over rough topography. <i>Nature Geoscience</i> , 2015, 8, 191-194.	12.9	111
18	Transports across the 2002 Greenland–Portugal Ovide section and comparison with 1997. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	110

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19	A connection between mean wave height and atmospheric pressure gradient in the North Atlantic. <i>International Journal of Climatology</i> , 1993, 13, 423-436.	3.5	108
20	A freshwater jet on the east Greenland shelf. <i>Journal of Geophysical Research</i> , 2002, 107, 5-1.	3.3	102
21	Circulation and Fluxes in the North Atlantic between Greenland and Ireland. <i>Journal of Physical Oceanography</i> , 1997, 27, 1420-1435.	1.7	95
22	Decadal variability in the outflow from the Nordic seas to the deep Atlantic Ocean. <i>Nature</i> , 1998, 394, 871-874.	27.8	90
23	The North Atlantic inflow to the Arctic Ocean: High-resolution model study. <i>Journal of Marine Systems</i> , 2010, 79, 1-22.	2.1	85
24	The Arctic Ocean in summer: A quasi-synoptic inverse estimate of boundary fluxes and water mass transformation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	84
25	Arctic Ocean surface geostrophic circulation 2003-2014. <i>Cryosphere</i> , 2017, 11, 1767-1780.	3.9	84
26	Fate of Early 2000s Arctic Warm Water Pulse. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 561-566.	3.3	81
27	Open-ocean convection in the Irminger Sea. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	74
28	Vertical mixing at intermediate depths in the Arctic boundary current. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	66
29	An isopycnal view of the Nordic Seas hydrography with focus on properties of the Lofoten Basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1955-1971.	1.4	63
30	Polar outflow from the Arctic Ocean: A high resolution model study. <i>Journal of Marine Systems</i> , 2010, 83, 14-37.	2.1	62
31	The contribution of the Weddell Gyre to the lower limb of the Global Overturning Circulation. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3357-3377.	2.6	61
32	Circulation and Transport in the Western Boundary Currents at Cape Farewell, Greenland. <i>Journal of Physical Oceanography</i> , 2009, 39, 1854-1870.	1.7	60
33	The Arctic Ocean carbon sink. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 86, 39-55.	1.4	60
34	Intermittent Intense Turbulent Mixing under Ice in the Laptev Sea Continental Shelf. <i>Journal of Physical Oceanography</i> , 2011, 41, 531-547.	1.7	58
35	Variability of the Ross Gyre, Southern Ocean: Drivers and Responses Revealed by Satellite Altimetry. <i>Geophysical Research Letters</i> , 2018, 45, 6195-6204.	4.0	58
36	Retroflexion of part of the east Greenland current at Cape Farewell. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	57

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37	The circulation of the subtropical South Pacific derived from hydrographic data. <i>Journal of Geophysical Research</i> , 1998, 103, 21443-21468.	3.3	56
38	Kara Sea freshwater transport through Vilkitsky Strait: Variability, forcing, and further pathways toward the western Arctic Ocean from a model and observations. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4925-4944.	2.6	52
39	Deep western boundary current dynamics and associated sedimentation on the Eirik Drift, Southern Greenland Margin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 2036-2066.	1.4	51
40	Seasonal variability of the East Greenland Coastal Current. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3967-3987.	2.6	51
41	Wind-driven mixing at intermediate depths in an ice-free Arctic Ocean. <i>Geophysical Research Letters</i> , 2016, 43, 9749-9756.	4.0	47
42	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. <i>Nature Communications</i> , 2021, 12, 3002.	12.8	47
43	Intra-seasonal variability of the DWBC in the western subpolar North Atlantic. <i>Progress in Oceanography</i> , 2015, 132, 233-249.	3.2	46
44	IAPSO Standard Seawater: Definition of the Uncertainty in the Calibration Procedure, and Stability of Recent Batches. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 1785-1799.	1.3	45
45	Subpolar North Atlantic Overturning and Gyre-scale Circulation in the Summers of 2014 and 2016. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4538-4559.	2.6	44
46	The three-dimensional overturning circulation of the Southern Ocean during the WOCE era. <i>Progress in Oceanography</i> , 2014, 120, 41-78.	3.2	43
47	Arctic Sea Level and Surface Circulation Response to the Arctic Oscillation. <i>Geophysical Research Letters</i> , 2018, 45, 6576-6584.	4.0	43
48	Tracer-derived freshwater composition of the Siberian continental shelf and slope following the extreme Arctic summer of 2007. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	42
49	The Arctic Ocean Seasonal Cycles of Heat and Freshwater Fluxes: Observation-Based Inverse Estimates. <i>Journal of Physical Oceanography</i> , 2018, 48, 2029-2055.	1.7	42
50	Model sensitivity of the Weddell and Ross seas, Antarctica, to vertical mixing and freshwater forcing. <i>Ocean Modelling</i> , 2015, 94, 141-152.	2.4	40
51	The thermodynamic balance of the Weddell Gyre. <i>Geophysical Research Letters</i> , 2016, 43, 317-325.	4.0	38
52	The Deep Western Boundary Current at Cape Farewell: Results from a Moored Current Meter Array. <i>Journal of Physical Oceanography</i> , 2010, 40, 815-829.	1.7	37
53	Glacial meltwater from Greenland is not likely to be an important source of Fe to the North Atlantic. <i>Biogeochemistry</i> , 2015, 124, 1-11.	3.5	37
54	Tidal Conversion and Mixing Poleward of the Critical Latitude (an Arctic Case Study). <i>Geophysical Research Letters</i> , 2017, 44, 12,349.	4.0	36

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55	The Greenland Sea tracer experiment 1996–2002: Horizontal mixing and transport of Greenland Sea Intermediate Water. <i>Progress in Oceanography</i> , 2008, 78, 85-105.	3.2	32
56	Arctic mass, freshwater and heat fluxes: methods and modelled seasonal variability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140169.	3.4	30
57	Wind-Driven Processes Controlling Oceanic Heat Delivery to the Amundsen Sea, Antarctica. <i>Journal of Physical Oceanography</i> , 2019, 49, 2829-2849.	1.7	28
58	Reframing the carbon cycle of the subpolar Southern Ocean. <i>Science Advances</i> , 2019, 5, eaav6410.	10.3	25
59	Intensified turbulent mixing in the boundary current system of southern Greenland. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	24
60	Control of the Oceanic Heat Content of the Getz–Dotson Trough, Antarctica, by the Amundsen Sea Low. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016113.	2.6	23
61	Oceanic Heat Flux Calculation. <i>Journal of Atmospheric and Oceanic Technology</i> , 1996, 13, 1327-1329.	1.3	22
62	Freshwater in the Arctic Ocean 2010–2019. <i>Ocean Science</i> , 2021, 17, 1081-1102.	3.4	22
63	Arctic Ocean and Hudson Bay Freshwater Exports: New Estimates from Seven Decades of Hydrographic Surveys on the Labrador Shelf. <i>Journal of Climate</i> , 2020, 33, 8849-8868.	3.2	21
64	The Evaluation of Salinity Measurements from PALACE Floats. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 1258-1266.	1.3	20
65	Interannual variability of Arctic sea ice export into the East Greenland Current. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
66	Phased Response of the Subpolar Southern Ocean to Changes in Circumpolar Winds. <i>Geophysical Research Letters</i> , 2019, 46, 6024-6033.	4.0	20
67	Accessing the Inaccessible: Buoyancy-Driven Coastal Currents on the Shelves of Greenland and Eastern Canada. , 2008, , 703-722.		20
68	The spatial and temporal variability of the East Greenland Coastal Current from historic data. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	19
69	Seasonal variability of sea surface height in the coastal waters and deep basins of the Nordic Seas. <i>Geophysical Research Letters</i> , 2015, 42, 113-120.	4.0	17
70	A review of the deep and surface currents around Eirik Drift, south of Greenland: Comparison of the past with the present. <i>Global and Planetary Change</i> , 2011, 79, 244-254.	3.5	16
71	The Eirik Drift: a long-term barometer of North Atlantic deepwater flux south of Cape Farewell, Greenland. <i>Geological Society Special Publication</i> , 2007, 276, 245-263.	1.3	13
72	Relevance of dissolved organic nutrients for the Arctic Ocean nutrient budget. <i>Geophysical Research Letters</i> , 2016, 43, 6418-6426.	4.0	13

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73	An Evaluation of Some Recent Batches of IAPSO Standard Seawater. <i>Journal of Atmospheric and Oceanic Technology</i> , 2000, 17, 854-861.	1.3	11
74	Transport Variability of the Irminger Sea Deep Western Boundary Current From a Mooring Array. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3246-3278.	2.6	11
75	Arctic freshwater fluxes: sources, tracer budgets and inconsistencies. <i>Cryosphere</i> , 2019, 13, 2111-2131.	3.9	7
76	Variability of the Lower Circumpolar Deep Water in Drake Passage 1926â€“2004. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	5
77	Skill in an Inversion Solution: CONVEX-91 Hydrographic Results Compared with ADCP Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 1994, 11, 1569-1591.	1.3	4
78	A seamless approach to understanding and predicting Arctic sea ice in Met Office modelling systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140161.	3.4	3
79	Arctic Conference Brings Together All Natural Science Disciplines: UK Arctic Science Conference; Southampton, United Kingdom, 13â€“15 July 2009. <i>Eos</i> , 2009, 90, 400.	0.1	0