Sheldon Bacon

List of Publications by Year
in descending order

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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	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. Nature Communications, 2021, 12, 3002.	12.8	47
2	Freshwater in the Arctic Ocean 2010â€“2019. Ocean Science, 2021, 17, 1081-1102.	3.4	22
3	Control of the Oceanic Heat Content of the Getzâ€Dotson Trough, Antarctica, by the Amundsen Sea Low. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016113.	2.6	23
4	Arctic Ocean and Hudson Bay Freshwater Exports: New Estimates from Seven Decades of Hydrographic Surveys on the Labrador Shelf. Journal of Climate, 2020, 33, 8849-8868.	3.2	21
5	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, .	2.5	120
6	Arctic freshwater fluxes: sources, tracer budgets and inconsistencies. Cryosphere, 2019, 13, 2111-2131.	3.9	7
7	Reframing the carbon cycle of the subpolar Southern Ocean. Science Advances, 2019, 5, eaav6410.	10.3	25
8	Wind-Driven Processes Controlling Oceanic Heat Delivery to the Amundsen Sea, Antarctica. Journal of Physical Oceanography, 2019, 49, 2829-2849.	1.7	28
9	A sea change in our view of overturning in the subpolar North Atlantic. Science, 2019, 363, 516-521.	12.6	333
10	Phased Response of the Subpolar Southern Ocean to Changes in Circumpolar Winds. Geophysical Research Letters, 2019, 46, 6024-6033.	4.0	20
11	Transport Variability of the Irminger Sea Deep Western Boundary Current From a Mooring Array. Journal of Geophysical Research: Oceans, 2019, 124, 3246-3278.	2.6	11
12	The Arctic Ocean Seasonal Cycles of Heat and Freshwater Fluxes: Observation-Based Inverse Estimates. Journal of Physical Oceanography, 2018, 48, 2029-2055.	1.7	42
13	Subpolar North Atlantic Overturning and Gyreâ€Scale Circulation in the Summers of 2014 and 2016. Journal of Geophysical Research: Oceans, 2018, 123, 4538-4559.	2.6	44
14	Variability of the Ross Gyre, Southern Ocean: Drivers and Responses Revealed by Satellite Altimetry. Geophysical Research Letters, 2018, 45, 6195-6204.	4.0	58
15	Arctic Sea Level and Surface Circulation Response to the Arctic Oscillation. Geophysical Research Letters, 2018, 45, 6576-6584.	4.0	43
16	Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. Bulletin of the American Meteorological Society, 2017, 98, 737-752.	3.3	173
17	Arctic Ocean surface geostrophic circulationÂ2003â€“2014. Cryosphere, 2017, 11, 1767-1780.	3.9	84
18	Tidal Conversion and Mixing Poleward of the Critical Latitude (an Arctic Case Study). Geophysical Research Letters, 2017, 44, 12,349.	4.0	36

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19	Relevance of dissolved organic nutrients for the Arctic Ocean nutrient budget. Geophysical Research Letters, 2016, 43, 6418-6426.	4.0	13
20	Arctic sea surface height variability and change from satellite radar altimetry and GRACE, 2003â€“2014. Journal of Geophysical Research: Oceans, 2016, 121, 4303-4322.	2.6	115
21	Windâ€driven mixing at intermediate depths in an iceâ€free Arctic Ocean. Geophysical Research Letters, 2016, 43, 9749-9756.	4.0	47
22	The thermodynamic balance of the Weddell Gyre. Geophysical Research Letters, 2016, 43, 317-325.	4.0	38
23	Freshwater and its role in the Arctic Marine System: Sources, disposition, storage, export, and physical and biogeochemical consequences in the Arctic and global oceans. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 675-717.	3.0	317
24	A seamless approach to understanding and predicting Arctic sea ice in Met Office modelling systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140161.	3.4	3
25	Kara Sea freshwater transport through Vilkitsky Strait: Variability, forcing, and further pathways toward the western Arctic Ocean from a model and observations. Journal of Geophysical Research: Oceans, 2015, 120, 4925-4944.	2.6	52
26	Seasonal variability of sea surface height in the coastal waters and deep basins of the Nordic Seas. Geophysical Research Letters, 2015, 42, 113-120.	4.0	17
27	Model sensitivity of the Weddell and Ross seas, Antarctica, to vertical mixing and freshwater forcing. Ocean Modelling, 2015, 94, 141-152.	2.4	40
28	Tide-mediated warming of Arctic halocline by Atlantic heat fluxes over rough topography. Nature Geoscience, 2015, 8, 191-194.	12.9	111
29	Glacial meltwater from Greenland is not likely to be an important source of Fe to the North Atlantic. Biogeochemistry, 2015, 124, 1-11.	3.5	37
30	Arctic mass, freshwater and heat fluxes: methods and modelled seasonal variability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140169.	3.4	30
31	Intra-seasonal variability of the DWBC in the western subpolar North Atlantic. Progress in Oceanography, 2015, 132, 233-249.	3.2	46
32	The Rossby radius in the Arctic Ocean. Ocean Science, 2014, 10, 967-975.	3.4	160
33	Seasonal variability of the East Greenland Coastal Current. Journal of Geophysical Research: Oceans, 2014, 119, 3967-3987.	2.6	51
34	The Arctic Ocean carbon sink. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 86, 39-55.	1.4	60
35	The contribution of the Weddell Gyre to the lower limb of the Global Overturning Circulation. Journal of Geophysical Research: Oceans, 2014, 119, 3357-3377.	2.6	61
36	The three-dimensional overturning circulation of the Southern Ocean during the WOCE era. Progress in Oceanography, 2014, 120, 41-78.	3.2	43

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37	Impact of Variable Atmospheric and Oceanic Form Drag on Simulations of Arctic Sea Ice*. Journal of Physical Oceanography, 2014, 44, 1329-1353.	1.7	152
38	Export of nutrients from the Arctic Ocean. Journal of Geophysical Research: Oceans, 2013, 118, 1625-1644.	2.6	130
39	The Arctic Ocean in summer: A quasiâ€synoptic inverse estimate of boundary fluxes and water mass transformation. Journal of Geophysical Research, 2012, 117, .	3.3	84
40	Western Arctic Ocean freshwater storage increased by wind-driven spin-up of the BeaufortÂGyre. Nature Geoscience, 2012, 5, 194-197.	12.9	255
41	A review of the deep and surface currents around Eirik Drift, south of Greenland: Comparison of the past with the present. Global and Planetary Change, 2011, 79, 244-254.	3.5	16
42	The Irminger Gyre: Circulation, convection, and interannual variability. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 590-614.	1.4	113
43	A new concept for the paleoceanographic evolution of Heinrich event 1 in the North Atlantic. Quaternary Science Reviews, 2011, 30, 1047-1066.	3.0	158
44	The Arctic Circumpolar Boundary Current. Journal of Geophysical Research, 2011, 116, .	3.3	139
45	Intermittent Intense Turbulent Mixing under Ice in the Laptev Sea Continental Shelf. Journal of Physical Oceanography, 2011, 41, 531-547.	1.7	58
46	Fate of Early 2000s Arctic Warm Water Pulse. Bulletin of the American Meteorological Society, 2011, 92, 561-566.	3.3	81
47	The North Atlantic inflow to the Arctic Ocean: High-resolution model study. Journal of Marine Systems, 2010, 79, 1-22.	2.1	85
48	Polar outflow from the Arctic Ocean: A high resolution model study. Journal of Marine Systems, 2010, 83, 14-37.	2.1	62
49	Arctic Ocean Warming Contributes to Reduced Polar Ice Cap. Journal of Physical Oceanography, 2010, 40, 2743-2756.	1.7	284
50	The Deep Western Boundary Current at Cape Farewell: Results from a Moored Current Meter Array. Journal of Physical Oceanography, 2010, 40, 815-829.	1.7	37
51	Interannual variability of Arctic sea ice export into the East Greenland Current. Journal of Geophysical Research, 2010, 115, .	3.3	20
52	Circulation and Transport in the Western Boundary Currents at Cape Farewell, Greenland. Journal of Physical Oceanography, 2009, 39, 1854-1870.	1.7	60
53	Vertical mixing at intermediate depths in the Arctic boundary current. Geophysical Research Letters, 2009, 36, .	4.0	66
54	An isopycnal view of the Nordic Seas hydrography with focus on properties of the Lofoten Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1955-1971.	1.4	63

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55	Arctic Conference Brings Together All Natural Science Disciplines: UK Arctic Science Conference; Southampton, United Kingdom, 13â€“15 July 2009. Eos, 2009, 90, 400.	0.1	0
56	Tracerâ€derived freshwater composition of the Siberian continental shelf and slope following the extreme Arctic summer of 2007. Geophysical Research Letters, 2009, 36, .	4.0	42
57	The Greenland Sea tracer experiment 1996â€“2002: Horizontal mixing and transport of Greenland Sea Intermediate Water. Progress in Oceanography, 2008, 78, 85-105.	3.2	32
58	Reversal of the 1960s to 1990s freshening trend in the northeast North Atlantic and Nordic Seas. Geophysical Research Letters, 2008, 35, .	4.0	202
59	Intensified turbulent mixing in the boundary current system of southern Greenland. Geophysical Research Letters, 2008, 35, .	4.0	24
60	Accessing the Inaccessible: Buoyancy-Driven Coastal Currents on the Shelves of Greenland and Eastern Canada. , 2008, , 703-722.		20
61	IAPSO Standard Seawater: Definition of the Uncertainty in the Calibration Procedure, and Stability of Recent Batches. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1785-1799.	1.3	45
62	The Eirik Drift: a long-term barometer of North Atlantic deepwater flux south of Cape Farewell, Greenland. Geological Society Special Publication, 2007, 276, 245-263.	1.3	13
63	Deep western boundary current dynamics and associated sedimentation on the Eirik Drift, Southern Greenland Margin. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 2036-2066.	1.4	51
64	Retroflection of part of the east Greenland current at Cape Farewell. Geophysical Research Letters, 2007, 34, .	4.0	57
65	Transports across the 2002 Greenlandâ€Portugal Ovide section and comparison with 1997. Journal of Geophysical Research, 2007, 112, .	3.3	110
66	Variability of the Lower Circumpolar Deep Water in Drake Passage 1926â€“2004. Geophysical Research Letters, 2006, 33, .	4.0	5
67	The spatial and temporal variability of the East Greenland Coastal Current from historic data. Geophysical Research Letters, 2005, 32, .	4.0	19
68	Open-ocean convection in the Irminger Sea. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	74
69	Labrador Sea Boundary Currents and the Fate of the Irminger Sea Water. Journal of Physical Oceanography, 2002, 32, 627-647.	1.7	186
70	A freshwater jet on the east Greenland shelf. Journal of Geophysical Research, 2002, 107, 5-1.	3.3	102
71	The Evaluation of Salinity Measurements from PALACE Floats. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1258-1266.	1.3	20
72	An Evaluation of Some Recent Batches of IAPSO Standard Seawater. Journal of Atmospheric and Oceanic Technology, 2000, 17, 854-861.	1.3	11

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73	Decadal variability in the outflow from the Nordic seas to the deep Atlantic Ocean. Nature, 1998, 394, 871-874.	27.8	90
74	The circulation of the subtropical South Pacific derived from hydrographic data. Journal of Geophysical Research, 1998, 103, 21443-21468.	3.3	56
75	Circulation and Fluxes in the North Atlantic between Greenland and Ireland. Journal of Physical Oceanography, 1997, 27, 1420-1435.	1.7	95
76	Oceanic Heat Flux Calculation. Journal of Atmospheric and Oceanic Technology, 1996, 13, 1327-1329.	1.3	22
77	Skill in an Inversion Solution: CONVEX-91 Hydrographic Results Compared with ADCP Measurements. Journal of Atmospheric and Oceanic Technology, 1994, 11, 1569-1591.	1.3	4
78	A connection between mean wave height and atmospheric pressure gradient in the North Atlantic. International Journal of Climatology, 1993, 13, 423-436.	3.5	108
79	Wave climate changes in the North Atlantic and North Sea. International Journal of Climatology, 1991, 11, 545-558.	3.5	179