Molly Baringer

List of Publications by Year
in descending order

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95 papers	8,815 citations	61984 43 h-index	43889 91 g-index
99 all docs	99 docs citations	99 times ranked	7659 citing authors

#	Article	IF	Citations
1	Temporal Variability of the Atlantic Meridional Overturning Circulation at 26.5Â°N. Science, 2007, 317, 935-938.	12.6	718
2	Fifteen years of ocean observations with the global Argo array. Nature Climate Change, 2016, 6, 145-153.	18.8	380
3	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. Reviews of Geophysics, 2013, 51, 450-483.	23.0	367
4	Continuous, Array-Based Estimates of Atlantic Ocean Heat Transport at 26.5Â°N. Journal of Climate, 2011, 24, 2429-2449.	3.2	352
5	Outflows and deep water production by marginal seas. Progress in Oceanography, 1994, 33, 161-200.	3.2	351
6	Pacific origin of the abrupt increase in Indian Ocean heat content during the warming hiatus. Nature Geoscience, 2015, 8, 445-449.	12.9	327
7	Measuring the Atlantic Meridional Overturning Circulation at 26Â°N. Progress in Oceanography, 2015, 130, 91-111.	3.2	314
8	Observed decline of the Atlantic meridional overturning circulation 2004â€“2012. Ocean Science, 2014, 10, 29-38.	3.4	293
9	Mixing and Spreading of the Mediterranean Outflow. Journal of Physical Oceanography, 1997, 27, 1654-1677.	1.7	278
10	Seasonal Variability of the Atlantic Meridional Overturning Circulation at 26.5Â°N. Journal of Climate, 2010, 23, 5678-5698.	3.2	270
11	The North Atlantic Ocean Is in a State of Reduced Overturning. Geophysical Research Letters, 2018, 45, 1527-1533.	4.0	263
12	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .	2.5	235
13	Sixteen years of Florida Current Transport at 27Â° N. Geophysical Research Letters, 2001, 28, 3179-3182.	4.0	218
14	Observed interannual variability of the Atlantic meridional overturning circulation at 26.5Â°N. Geophysical Research Letters, 2012, 39, .	4.0	211
15	Observed Flow Compensation Associated with the MOC at 26.5Â°N in the Atlantic. Science, 2007, 317, 938-941.	12.6	205
16	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. Annual Review of Marine Science, 2016, 8, 185-215.	11.6	183
17	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
18	Mediterranean Outflow Mixing and Dynamics. Science, 1993, 259, 1277-1282.	12.6	159

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19	A review of the physical oceanography of the Mediterranean outflow. Marine Geology, 1999, 155, 63-82.	2.1	157
20	Florida Current transport variability: An analysis of annual and longer-period signals. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 835-846.	1.4	156
21	Past, Present, and Future Changes in the Atlantic Meridional Overturning Circulation. Bulletin of the American Meteorological Society, 2012, 93, 1663-1676.	3.3	153
22	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
23	Monitoring the Atlantic meridional overturning circulation. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1744-1753.	1.4	135
24	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135
25	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
26	State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222.	3.3	121
27	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
28	Argo Data 1999â€“2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. Frontiers in Marine Science, 2020, 7, .	2.5	117
29	Ocean acidification along the Gulf Coast and East Coast of the USA. Continental Shelf Research, 2015, 98, 54-71.	1.8	96
30	Advection and diffusion of Indonesian Throughflow Water within the Indian Ocean South Equatorial Current. Geophysical Research Letters, 1997, 24, 2573-2576.	4.0	95
31	Variability of Shallow and Deep Western Boundary Currents off the Bahamas during 2004â€“05: Results from the 26Â°N RAPIDâ€“MOC Array. Journal of Physical Oceanography, 2008, 38, 605-623.	1.7	93
32	Momentum and Energy Balance of the Mediterranean Outflow. Journal of Physical Oceanography, 1997, 27, 1678-1692.	1.7	91
33	South Atlantic meridional fluxes. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 71, 21-32.	1.4	84
34	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	3.3	74
35	Temporal variability of the meridional overturning circulation at 34.5Â°S: Results from two pilot boundary arrays in the South Atlantic. Journal of Geophysical Research: Oceans, 2013, 118, 6461-6478.	2.6	70
36	Interannual variations in the Atlantic meridional overturning circulation and its relationship with the net northward heat transport in the South Atlantic. Geophysical Research Letters, 2009, 36, .	4.0	67

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37	What Caused the Accelerated Sea Level Changes Along the U.S. East Coast During 2010â€“2015?. Geophysical Research Letters, 2018, 45, 13,367.	4.0	65
38	Pending recovery in the strength of the meridional overturning circulation at 26Â°â€‰N. Ocean Science, 2020, 16, 863-874.	3.4	65
39	What caused the significant increase in Atlantic Ocean heat content since the mid-20th century?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	62
40	Stress on the Mediterranean Outflow Plume: Part I. Velocity and Water Property Measurements. Journal of Physical Oceanography, 1994, 24, 2072-2083.	1.7	56
41	Observed Interannual Variability of the Florida Current: Wind Forcing and the North Atlantic Oscillation. Journal of Physical Oceanography, 2009, 39, 721-736.	1.7	56
42	Propagation pathways of classical Labrador Sea water from its source region to 26Â°N. Journal of Geophysical Research, 2011, 116, .	3.3	54
43	Continuous Estimate of Atlantic Oceanic Freshwater Flux at 26.5Â°N. Journal of Climate, 2015, 28, 8888-8906.	3.2	50
44	A 1998â€“1992 comparison of inorganic carbon and its transport across 24.5Â°N in the Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 3041-3064.	1.4	42
45	Transport variability of the Deep Western Boundary Current and the Antilles Current off Abaco Island, Bahamas. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 1397-1415.	1.4	40
46	Meridional heat transport determined with expandable bathythermographsâ€”Part II: South Atlantic transport. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1402-1420.	1.4	39
47	Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, .	2.5	39
48	Meridional heat transport determined with expendable bathythermographsâ€”Part I: Error estimates from model and hydrographic data. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1390-1401.	1.4	38
49	An assessment of the seasonal mixed layer salinity budget in the Southern Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	38
50	The Role of Interocean Exchanges on Decadal Variations of the Meridional Heat Transport in the South Atlantic. Journal of Physical Oceanography, 2011, 41, 1498-1511.	1.7	38
51	Compensation between meridional flow components of the Atlantic MOC at 26Â°â€N. Ocean Science, 2016, 12, 481-493.	3.4	38
52	Slow Down of the Gulf Stream during 1993â€“2016. Scientific Reports, 2019, 9, 6672.	3.3	37
53	Basinâ€Wide Oceanographic Array Bridges the South Atlantic. Eos, 2014, 95, 53-54.	0.1	36
54	Metabolic poise in the North Atlantic Ocean diagnosed from organic matter transports. Limnology and Oceanography, 2004, 49, 1084-1094.	3.1	35

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55	Variability of the Deep Western Boundary Current at 26.5Â°N during 2004â€“2009. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 85, 154-168.	1.4	31
56	More Than 50 Years of Successful Continuous Temperature Section Measurements by the Global Expendable Bathythermograph Network, Its Integrability, Societal Benefits, and Future. Frontiers in Marine Science, 2019, 6, .	2.5	31
57	Transition regions and their role in the relationship between sea surface height and subsurface temperature structure in the Atlantic Ocean. Geophysical Research Letters, 2001, 28, 3943-3946.	4.0	29
58	Preliminary results from WOCE hydrographic sections at 80Â°E and 32Â°S in the central Indian Ocean. Geophysical Research Letters, 1997, 24, 2789-2792.	4.0	28
59	Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. Geophysical Research Letters, 2014, 41, 4611-4618.	4.0	28
60	A prototype system for observing the Atlantic Meridional Overturning Circulation â€“ scientific basis, measurement and risk mitigation strategies, and first results. Journal of Operational Oceanography, 2008, 1, 19-28.	1.2	27
61	Contrasting patterns of phytoplankton pigments and chemotaxonomic groups along 30Â°S in the subtropical South Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 120, 112-121.	1.4	27
62	Teleconnection between the Atlantic Meridional Overturning Circulation and Sea Level in the Mediterranean Sea. Journal of Climate, 2019, 32, 935-955.	3.2	26
63	Remote sources for yearâ€toâ€year changes in the seasonality of the <scp>F</scp>lorida <scp>C</scp>urrent transport. Journal of Geophysical Research: Oceans, 2016, 121, 7547-7559.	2.6	25
64	Cross validating ocean prediction and monitoring systems. Eos, 2005, 86, 269.	0.1	24
65	Structure, transport and potential vorticity of the Gulf Stream at 68Â°W: Revisiting older data sets with new techniques. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 41-60.	1.4	24
66	An Integrated All-Atlantic Ocean Observing System in 2030. Frontiers in Marine Science, 2019, 6, .	2.5	23
67	The upper, deep, abyssal and overturning circulation in the Atlantic Ocean at 30Â°S in 2003 and 2011. Progress in Oceanography, 2019, 176, 102136.	3.2	21
68	Historical variability in Atlantic meridional baroclinic transport at 26.5Â°N from boundary dynamic height observations. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1754-1767.	1.4	19
69	An assessment of the Brazil Current baroclinic structure and variability near 22Â° S in Distinct Ocean Forecasting and Analysis Systems. Ocean Dynamics, 2016, 66, 893-916.	2.2	19
70	Global Meridional Overturning Circulation Inferred From a Dataâ€Constrained Ocean & Seaâ€Ice Model. Geophysical Research Letters, 2019, 46, 1521-1530.	4.0	19
71	Variability in Deep Western Boundary Current transports: Preliminary results from 26.5Â°N in the Atlantic. Geophysical Research Letters, 2006, 33, .	4.0	17
72	Deep upwelling and diffusivity in the southern central Indian Basin. Geophysical Research Letters, 1997, 24, 2801-2804.	4.0	16

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73	A continuous record of Florida Current temperature transport at 27Â°N. Geophysical Research Letters, 2005, 32, .	4.0	16
74	Importance of the assimilation of Argo float measurements on the Meridional Overturning Circulation in the South Atlantic. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
75	Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake. Nature Geoscience, 2021, 14, 571-577.	12.9	15
76	State of the Climate in 2006. Bulletin of the American Meteorological Society, 2007, 88, 929-932.	3.3	14
77	An Updated Estimate of Salinity for the Atlantic Ocean Sector Using Temperatureâ€“Salinity Relationships. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1771-1784.	1.3	14
78	Ocean Heat Transport. International Geophysics, 2013, , 759-785.	0.6	13
79	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	3.3	12
80	The impact of historical biases on the XBTâ€derived meridional overturning circulation estimates at 34Â°S. Geophysical Research Letters, 2015, 42, 1848-1855.	4.0	11
81	OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. Journal of Atmospheric and Oceanic Technology, 2020, 37, 467-487.	1.3	11
82	Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198.	3.3	11
83	An estimate of diapycnal nutrient fluxes to the euphotic zone in the Florida Straits. Scientific Reports, 2017, 7, 16098.	3.3	9
84	Surface currents in the tropical Atlantic across high density XBT line AX08. Geophysical Research Letters, 2002, 29, 71-1-71-4.	4.0	8
85	Inferring Florida Current Volume Transport From Satellite Altimetry. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016763.	2.6	8
86	Measuring the Atlantic Meridional Overturning Circulation. Marine Technology Society Journal, 2015, 49, 167-177.	0.4	8
87	Synergy of In Situ and Satellite Ocean Observations in Determining Meridional Heat Transport in the Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017073.	2.6	6
88	The Complementary Value of XBT and Argo Observations to Monitor Ocean Boundary Currents and Meridional Heat and Volume Transports: A Case Study in the Atlantic Ocean. Journal of Atmospheric and Oceanic Technology, 2020, 37, 2267-2282.	1.3	6
89	Treading Water: Tools to Help US Coastal Communities Plan for Sea Level Rise Impacts. Frontiers in Marine Science, 2019, 6, .	2.5	4
90	Interannual Variability of the South Atlantic Ocean Heat Content in a Highâ€Resolution Versus a Lowâ€Resolution General Circulation Model. Geophysical Research Letters, 2020, 47, e2020GL089908.	4.0	4

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91	Remote Impact of the Equatorial Pacific on Florida Current Transport. Geophysical Research Letters, 2022, 49, .	4.0	4
92	Dissipation processes in the Tongue of the Ocean. Journal of Geophysical Research: Oceans, 2016, 121, 3159-3170.	2.6	2
93	What Caused the Largeâ€Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009â€“2012?. Geophysical Research Letters, 2020, 47, e2020GL088206.	4.0	2
94	Transport Structure of the South Atlantic Ocean Derived From a High-Resolution Numerical Model and Observations. Frontiers in Marine Science, 2022, 9, .	2.5	2
95	Comparison of hydrographic and altimeter based estimates of sea level height variability in the Atlantic Ocean. Elsevier Oceanography Series, 2003, , 23-48.	0.1	1