Shenfu Dong

List of Publications by Year
in descending order

67 papers	3,175 citations	159585 30 h-index	155660 55 g-index
71 all docs	71 docs citations	71 times ranked	4501 citing authors

#	Article	IF	Citations
1	Southern Ocean mixedâ€layer depth from Argo float profiles. Journal of Geophysical Research, 2008, 113, .	3.3	288
2	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
3	Multidecadal Covariability of North Atlantic Sea Surface Temperature, African Dust, Sahel Rainfall, and Atlantic Hurricanes. Journal of Climate, 2012, 25, 5404-5415.	3.2	144
4	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
5	Gulf Stream Variability and Oceanâ€“Atmosphere Interactions*. Journal of Physical Oceanography, 2001, 31, 3516-3529.	1.7	140
6	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
7	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
8	Location of the Antarctic Polar Front from AMSR-E Satellite Sea Surface Temperature Measurements. Journal of Physical Oceanography, 2006, 36, 2075-2089.	1.7	121
9	An Assessment of the Southern Ocean Mixed Layer Heat Budget. Journal of Climate, 2007, 20, 4425-4442.	3.2	120
10	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, .	2.5	120
11	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	2.6	119
12	Heat Budget in the Gulf Stream Region: The Importance of Heat Storage and Advection. Journal of Physical Oceanography, 2004, 34, 1214-1231.	1.7	102
13	South Atlantic meridional fluxes. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 71, 21-32.	1.4	84
14	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
15	XBT Science: Assessment of Instrumental Biases and Errors. Bulletin of the American Meteorological Society, 2016, 97, 924-933.	3.3	72
16	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
17	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
18	Seawater density variations in the North Atlantic and the Atlantic meridional overturning circulation. Climate Dynamics, 2010, 34, 953-968.	3.8	58

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19	Meridional Overturning Circulation Transport Variability at 34.5Â°S During 2009â€“2017: Baroclinic and Barotropic Flows and the Dueling Influence of the Boundaries. Geophysical Research Letters, 2018, 45, 4180-4188.	4.0	55
20	Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. Nature Climate Change, 2018, 8, 414-420.	18.8	52
21	Validation of the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) sea surface temperature in the Southern Ocean. Journal of Geophysical Research, 2006, 111, .	3.3	51
22	Temporal variability of the South Atlantic Meridional Overturning Circulation between 20Â°S and 35Â°S. Geophysical Research Letters, 2015, 42, 7655-7662.	4.0	46
23	The fate of the Deep Western Boundary Current in the South Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 103, 125-136.	1.4	41
24	Interannual Variations in Upper-Ocean Heat Content and Heat Transport Convergence in the Western North Atlantic. Journal of Physical Oceanography, 2007, 37, 2682-2697.	1.7	39
25	Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, .	2.5	39
26	An assessment of the seasonal mixed layer salinity budget in the Southern Ocean. Journal of Geophysical Research, 2009, 114, .	3.3	38
27	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
28	Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. Journal of Climate, 2016, 29, 1831-1851.	3.2	38
29	Slow Down of the Gulf Stream during 1993â€“2016. Scientific Reports, 2019, 9, 6672.	3.3	37
30	Basinâ€Wide Oceanographic Array Bridges the South Atlantic. Eos, 2014, 95, 53-54.	0.1	36
31	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
32	Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. Geophysical Research Letters, 2014, 41, 4611-4618.	4.0	28
33	Characteristics and causes of Deep Western Boundary Current transport variability at 34.5Â°â€S during 2009â€“2014. Ocean Science, 2017, 13, 175-194.	3.4	26
34	Highly variable upper and abyssal overturning cells in the South Atlantic. Science Advances, 2020, 6, eaba7573.	10.3	26
35	Remote influence of Interdecadal Pacific Oscillation on the South Atlantic meridional overturning circulation variability. Geophysical Research Letters, 2016, 43, 8250-8258.	4.0	25
36	Autonomous Multi-Platform Observations During the Salinity Processes in the Upper-ocean Regional Study. Oceanography, 2017, 30, 38-48.	1.0	25

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37	Seasonal and interannual variations in geostrophic velocity in the Middle Atlantic Bight. Journal of Geophysical Research, 2003, 108, .	3.3	22
38	Is the basinâ€wide warming in the North Atlantic Ocean related to atmospheric carbon dioxide and global warming?. Geophysical Research Letters, 2010, 37, .	4.0	21
39	Observed Ocean Bottom Temperature Variability at Four Sites in the Northwestern Argentine Basin: Evidence of Decadal Deep/Abyssal Warming Amidst Hourly to Interannual Variability During 2009â€“2019. Geophysical Research Letters, 2020, 47, e2020GL089093.	4.0	21
40	The Relationship of Western Boundary Current Heat Transport and Storage to Midlatitude Ocean-Atmosphere Interaction. Geophysical Monograph Series, 0, , 347-363.	0.1	20
41	Global Meridional Overturning Circulation Inferred From a Dataâ€Constrained Ocean & Seaâ€Ice Model. Geophysical Research Letters, 2019, 46, 1521-1530.	4.0	19
42	An optimal XBTâ€based monitoring system for the <scp>S</scp>outh <scp>A</scp>tlantic meridional overturning circulation at 34Â°S. Journal of Geophysical Research: Oceans, 2015, 120, 161-181.	2.6	17
43	Shallow and Deep Eastern Boundary Currents in the South Atlantic at 34.5Â°S: Mean Structure and Variability. Journal of Geophysical Research: Oceans, 2019, 124, 1634-1659.	2.6	17
44	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
45	The contributions of atmosphere and ocean to North Atlantic Subtropical Mode Water volume anomalies. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 91, 111-127.	1.4	16
46	A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870. Geophysical Research Letters, 2017, 44, 3309-3318.	4.0	16
47	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6342-6358.	3.3	16
48	Warming Trend in Antarctic Bottom Water in the Vema Channel in the South Atlantic. Geophysical Research Letters, 2021, 48, e2021GL094709.	4.0	16
49	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
50	Assessing the potential of the Atmospheric Infrared Sounder (AIRS) surface temperature and specific humidity in turbulent heat flux estimates in the Southern Ocean. Journal of Geophysical Research, 2010, 115, .	3.3	13
51	Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010. Journal of Geophysical Research: Oceans, 2014, 119, 1123-1145.	2.6	13
52	Nearâ€surface salinity and temperature structure observed with dualâ€sensor drifters in the subtropical S outh P acific. Journal of Geophysical Research: Oceans, 2017, 122, 5952-5969.	2.6	12
53	Observations of Near-Surface Salinity and Temperature Structure with Dual-Sensor Lagrangian Drifters During SPURS-2. Oceanography, 2019, 32, 66-75.	1.0	12
54	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	3.3	12

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55	Multiâ€Year Estimates of Daily Heat Transport by the Atlantic Meridional Overturning Circulation at 34.5Â°S. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016947.	2.6	8
56	Measuring the Atlantic Meridional Overturning Circulation. Marine Technology Society Journal, 2015, 49, 167-177.	0.4	8
57	What Signals Are Removed and Retained by Using an Anomaly Field in Climatic Research?. International Journal of Oceanography, 2009, 2009, 1-7.	0.2	7
58	Brazil Current Volume Transport Variability During 2009â€“2015 From a Longâ€Term Moored Array at 34.5Â°S. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017146.	2.6	7
59	Mixed-Layer Salinity Budget in the SPURS Region on Seasonal to Interannual Time Scales. Oceanography, 2015, 28, 78-85.	1.0	6
60	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
61	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
62	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
63	Remote Impact of the Equatorial Pacific on Florida Current Transport. Geophysical Research Letters, 2022, 49, .	4.0	4
64	How Well Do Climate Models Reproduce North Atlantic Subtropical Mode Water?. Journal of Physical Oceanography, 2013, 43, 2230-2244.	1.7	3
65	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
66	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
67	Monitoring and Interpreting Mid-Latitude Oceans by Satellite Altimetry. , 2017, , 211-230.		1