

John M Toole

List of Publications by Year in descending order

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Version: 2024-02-01

139
papers

11,316
citations

22132

59
h-index

30058

103
g-index

139
all docs

139
docs citations

139
times ranked

6534
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the MOSAiC expedition: Physical oceanography. <i>Elementa</i> , 2022, 10, .	1.1	54
2	Lithogenic Particle Transport Trajectories on the Northwest Atlantic Margin. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	1.0	4
3	An analysis of Atlantic water in the Arctic Ocean using the Arctic subpolar gyre state estimate and observations. <i>Progress in Oceanography</i> , 2021, 198, 102685.	1.5	3
4	Continued Development and Evaluation of the D-2 Inc. Hybrid CTD Sensor. , 2021, , .		0
5	Ocean Circulation and Variability Beneath Nioghalvfjærdsbråen (79 North Glacier) Ice Tongue. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016091.	1.0	15
6	How Variable Is Mixing Efficiency in the Abyss?. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086813.	1.5	18
7	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	235
8	A Barotropic Vorticity Budget for the Subtropical North Atlantic Based on Observations. <i>Journal of Physical Oceanography</i> , 2019, 49, 2781-2797.	0.7	6
9	Polar Ocean Observations: A Critical Gap in the Observing System and Its Effect on Environmental Predictions From Hours to a Season. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	43
10	100 Years of Progress in Ocean Observing Systems. <i>Meteorological Monographs</i> , 2019, 59, 3.1-3.46.	5.0	15
11	Analysis of the Beaufort Gyre Freshwater Content in 2003–2018. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 9658-9689.	1.0	103
12	The Interaction of Recirculation Gyres and a Deep Boundary Current. <i>Journal of Physical Oceanography</i> , 2018, 48, 573-590.	0.7	7
13	Evidence for the Maintenance of Slowly Varying Equatorial Currents by Intraseasonal Variability. <i>Geophysical Research Letters</i> , 2018, 45, 1923-1929.	1.5	18
14	Three-Axis Tilt for Articulated Profiler. , 2018, , .		2
15	Warming of the interior Arctic Ocean linked to sea ice losses at the basin margins. <i>Science Advances</i> , 2018, 4, eaat6773.	4.7	94
16	Internal Waves in the Arctic: Influence of Ice Concentration, Ice Roughness, and Surface Layer Stratification. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5571-5586.	1.0	14
17	Recent Wind-Driven Variability in Atlantic Water Mass Distribution and Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2017, 47, 633-647.	0.7	34
18	Spatial variability of the Arctic Ocean's double-diffusive staircase. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 980-994.	1.0	54

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19	The euphotic zone under Arctic Ocean sea ice: Vertical extents and seasonal trends. <i>Limnology and Oceanography</i> , 2017, 62, 1910-1934.	1.6	21
20	Sea surface CO_2 and O_2 dynamics in the partially ice-covered Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 1425-1438.	1.0	12
21	Moored observations of the Deep Western Boundary Current in the Northwest Atlantic: 2004–2014. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7488-7505.	1.0	50
22	Tracking Labrador Sea Water property signals along the Deep Western Boundary Current. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5348-5366.	1.0	34
23	Biological and physical controls on the flux and characteristics of sinking particles on the Northwest Atlantic margin. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4539-4553.	1.0	6
24	Ice and ocean velocity in the Arctic marginal ice zone: Ice roughness and momentum transfer. <i>Elementa</i> , 2017, 5, .	1.1	34
25	On the Benefit of Current and Future ALPS Data for Improving Arctic Coupled Ocean-Sea Ice State Estimation. <i>Oceanography</i> , 2017, 30, 69-73.	0.5	18
26	The Beaufort Gyre intensification and stabilization: A model-observation synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7933-7952.	1.0	54
27	Evolution of a Canada Basin ice-ocean boundary layer and mixed layer across a developing thermodynamically forced marginal ice zone. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6223-6250.	1.0	27
28	Evolution of the eddy field in the Arctic Ocean's Canada Basin, 2005–2015. <i>Geophysical Research Letters</i> , 2016, 43, 8106-8114.	1.5	57
29	Annual and Semiannual Cycle of Equatorial Atlantic Circulation Associated with Basin-Mode Resonance. <i>Journal of Physical Oceanography</i> , 2016, 46, 3011-3029.	0.7	40
30	Forcing of the Atlantic Equatorial Deep Jets Derived from Observations. <i>Journal of Physical Oceanography</i> , 2016, 46, 3549-3562.	0.7	20
31	Stirring by deep cyclones and the evolution of Denmark strait overflow water observed at line W. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 109, 10-26.	0.6	21
32	Enhanced Diapycnal Diffusivity in Intrusive Regions of the Drake Passage. <i>Journal of Physical Oceanography</i> , 2016, 46, 1309-1321.	0.7	13
33	Vertical kinetic energy and turbulent dissipation in the ocean. <i>Geophysical Research Letters</i> , 2015, 42, 7639-7647.	1.5	11
34	Processing of velocity observations from Ice-Tethered Profilers. , 2015, , .		8
35	Toward Quantifying the Increasing Role of Oceanic Heat in Sea Ice Loss in the New Arctic. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 2079-2105.	1.7	217
36	Mechanisms of Pacific Summer Water variability in the Arctic's Central Canada Basin. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7523-7548.	1.0	134

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37	Near-Inertial Internal Wave Field in the Canada Basin from Ice-Tethered Profilers. <i>Journal of Physical Oceanography</i> , 2014, 44, 413-426.	0.7	21
38	Ekman Veering, Internal Waves, and Turbulence Observed under Arctic Sea Ice. <i>Journal of Physical Oceanography</i> , 2014, 44, 1306-1328.	0.7	73
39	Eddy-induced variability in Southern Ocean abyssal mixing on climatic timescales. <i>Nature Geoscience</i> , 2014, 7, 577-582.	5.4	51
40	Assessing algal biomass and bio-optical distributions in perennially ice-covered polar ocean ecosystems. <i>Polar Science</i> , 2014, 8, 73-85.	0.5	37
41	Arctic Ocean basin liquid freshwater storage trend 1992–2012. <i>Geophysical Research Letters</i> , 2014, 41, 961-968.	1.5	139
42	Characterizing the eddy field in the Arctic Ocean halocline. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 8800-8817.	1.0	98
43	Quasi-Lagrangian observations of the upper ocean response to wintertime forcing in the Gulf Stream. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 91, 25-34.	0.6	6
44	Evolution and formation of North Atlantic Eighteen Degree Water in the Sargasso Sea from moored data. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 91, 11-24.	0.6	18
45	A near-inertial mode observed within a Gulf Stream warm-core ring. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1797-1806.	1.0	56
46	Rates and mechanisms of turbulent dissipation and mixing in the Southern Ocean: Results from the Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean (DIMES). <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2774-2792.	1.0	112
47	Coherence of Western Boundary Pressure at the RAPID WAVE Array: Boundary Wave Adjustments or Deep Western Boundary Current Advection?. <i>Journal of Physical Oceanography</i> , 2013, 43, 744-765.	0.7	22
48	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	1.7	129
49	Interannual sea level variability in the western North Atlantic: Regional forcing and remote response. <i>Geophysical Research Letters</i> , 2013, 40, 5915-5919.	1.5	61
50	The Arctic and Subarctic Oceans/Seas. <i>International Geophysics</i> , 2013, 103, 443-470.	0.6	5
51	Horizontal Density Structure and Restratification of the Arctic Ocean Surface Layer. <i>Journal of Physical Oceanography</i> , 2012, 42, 659-668.	0.7	80
52	Variability in the Deep Western Boundary Current: Local versus remote forcing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
53	Turbulence and Diapycnal Mixing in Drake Passage. <i>Journal of Physical Oceanography</i> , 2012, 42, 2143-2152.	0.7	108
54	Flux measurements from an Ice-tethered profiler: First look. , 2011, , .		2

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55	An assessment of Arctic Ocean freshwater content changes from the 1990s to the 2006–2008 period. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 173-185.	0.6	162
56	Recent changes in the Labrador Sea Water within the Deep Western Boundary Current southeast of Cape Cod. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 1019-1030.	0.6	23
57	Transport of the North Atlantic Deep Western Boundary Current about 39°N, 70°W: 2004–2008. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1768-1780.	0.6	79
58	Surface freshening in the Arctic Ocean's Eurasian Basin: An apparent consequence of recent change in the wind-driven circulation. Journal of Geophysical Research, 2011, 116, .	3.3	83
59	The Ice-Tethered Profiler: Argo of the Arctic. Oceanography, 2011, 24, 126-135.	0.5	183
60	Interannual atmospheric variability forced by the deep equatorial Atlantic Ocean. Nature, 2011, 473, 497-500.	13.7	83
61	Diapycnal Mixing in the Antarctic Circumpolar Current. Journal of Physical Oceanography, 2011, 41, 241-246.	0.7	95
62	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
63	Noise in Ice-Tethered Profiler and McLane Moored Profiler velocity measurements. , 2011, , .		5
64	Arctic Ocean Warming Contributes to Reduced Polar Ice Cap. Journal of Physical Oceanography, 2010, 40, 2743-2756.	0.7	284
65	Ice-Tethered Profiler Measurements of Dissolved Oxygen under Permanent Ice Cover in the Arctic Ocean. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1936-1949.	0.5	19
66	Influences of the ocean surface mixed layer and thermohaline stratification on Arctic Sea ice in the central Canada Basin. Journal of Geophysical Research, 2010, 115, .	3.3	179
67	Motion tracking in an acoustic point-measurement current meter. , 2010, , .		17
68	The Climode Field Campaign: Observing the Cycle of Convection and Restratification over the Gulf Stream. Bulletin of the American Meteorological Society, 2009, 90, 1337-1350.	1.7	86
69	The WOCE-era 3-D Pacific Ocean circulation and heat budget. Progress in Oceanography, 2009, 82, 281-325.	1.5	57
70	Beaufort Gyre freshwater reservoir: State and variability from observations. Journal of Geophysical Research, 2009, 114, .	3.3	364
71	Seasonal Kinetic Energy Variability of Near-Inertial Motions. Journal of Physical Oceanography, 2009, 39, 1035-1049.	0.7	69
72	Reduced Antarctic meridional overturning circulation reaches the North Atlantic Ocean. Geophysical Research Letters, 2008, 35, .	1.5	45

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73	Evaluating salt-fingering theories. <i>Journal of Marine Research</i> , 2008, 66, 413-440.	0.3	11
74	Eddies in the Canada Basin, Arctic Ocean, Observed from Ice-Tethered Profilers. <i>Journal of Physical Oceanography</i> , 2008, 38, 133-145.	0.7	113
75	Automated Ice-Tethered Profilers for Seawater Observations under Pack Ice in All Seasons. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 2091-2105.	0.5	185
76	Sensor Corrections for Sea-Bird SBE-41CP and SBE-41 CTDs. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 1117-1130.	0.5	56
77	Temporal Characteristics of Abyssal Finescale Motions above Rough Bathymetry. <i>Journal of Physical Oceanography</i> , 2007, 37, 409-427.	0.7	22
78	Ice-tethered profilers sample the upper Arctic Ocean. <i>Eos</i> , 2006, 87, 434.	0.1	24
79	Mixing Associated with Sills in a Canyon on the Mid-ocean Ridge Flank*. <i>Journal of Physical Oceanography</i> , 2005, 35, 1370-1381.	0.7	83
80	A double-diffusive interface tank for dynamic-response studies. <i>Journal of Marine Research</i> , 2005, 63, 263-289.	0.3	14
81	Enhanced Diapycnal Mixing by Salt Fingers in the Thermocline of the Tropical Atlantic. <i>Science</i> , 2005, 308, 685-688.	6.0	151
82	Internal Tide Reflection and Turbulent Mixing on the Continental Slope. <i>Journal of Physical Oceanography</i> , 2004, 34, 1117-1134.	0.7	223
83	An array of ice-based observatories for Arctic studies. <i>Eos</i> , 2004, 85, 484.	0.1	4
84	Time-Dependent Internal Energy Budgets of the Tropical Warm Water Pools. <i>Journal of Climate</i> , 2004, 17, 1398-1410.	1.2	18
85	A near-synoptic survey of the Southwest Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003, 50, 1893-1931.	0.6	68
86	The Partition of Finescale Energy into Internal Waves and Subinertial Motions. <i>Journal of Physical Oceanography</i> , 2003, 33, 234-248.	0.7	62
87	Volume transport and property distributions of the Mozambique Channel. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 1481-1511.	0.6	75
88	Revisiting the South Pacific subtropical circulation: A synthesis of World Ocean Circulation Experiment observations along 32°S. <i>Journal of Geophysical Research</i> , 2001, 106, 19481-19513.	3.3	77
89	Buoyancy Forcing by Turbulence above Rough Topography in the Abyssal Brazil Basin*. <i>Journal of Physical Oceanography</i> , 2001, 31, 3476-3495.	0.7	196
90	Evidence for enhanced mixing over rough topography in the abyssal ocean. <i>Nature</i> , 2000, 403, 179-182.	13.7	594

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91	Meridional overturning and large-scale circulation of the Indian Ocean. <i>Journal of Geophysical Research</i> , 2000, 105, 26117-26134.	3.3	100
92	A Moored Profiling Instrument*. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 1816-1829.	0.5	75
93	Turbulent Mixing in the Ocean. , 1998, , 171-190.		17
94	Transports across the Tasman Sea from WOCE repeat sections: The East Australian Current 1990â€“94. <i>New Zealand Journal of Marine and Freshwater Research</i> , 1997, 31, 469-475.	0.8	19
95	Tidally Driven Vorticity, Diurnal Shear, and Turbulence atop Fieberling Seamount. <i>Journal of Physical Oceanography</i> , 1997, 27, 2663-2693.	0.7	169
96	A Wire-Guided, Free-Fall System to Facilitate Shipborne Hydrographic Profiling. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 667-675.	0.5	3
97	Seasonal circulation in the south Indian Ocean. <i>Geophysical Research Letters</i> , 1997, 24, 2773-2776.	1.5	31
98	Spatial Variability of Turbulent Mixing in the Abyssal Ocean. <i>Science</i> , 1997, 276, 93-96.	6.0	973
99	The dissolved silica budget as a constraint on the meridional overturning circulation of the Indian Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1997, 44, 879-906.	0.6	111
100	Near-boundary mixing above the flanks of a midlatitude seamount. <i>Journal of Geophysical Research</i> , 1997, 102, 947-959.	3.3	135
101	The water masses and circulation at 10Â°N in the Pacific. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996, 43, 501-544.	0.6	82
102	Fine structure and microstructure characteristics across the northwest Atlantic Subtropical Front. <i>Journal of Geophysical Research</i> , 1996, 101, 14111-14121.	3.3	28
103	Intense mixing of Antarctic Bottom Water in the equatorial Atlantic Ocean. <i>Nature</i> , 1996, 380, 54-57.	13.7	155
104	Finescale Parameterizations of Turbulent Dissipation. <i>Journal of Physical Oceanography</i> , 1995, 25, 306-328.	0.7	373
105	The Energy Balance in a Warm-Core Ring's Near-Inertial Critical Layer. <i>Journal of Physical Oceanography</i> , 1995, 25, 942-957.	0.7	129
106	The mean structure and variability of the Mindanao Current at 8Â°N. <i>Journal of Geophysical Research</i> , 1995, 100, 18421.	3.3	80
107	Estimates of Diapycnal Mixing in the Abyssal Ocean. <i>Science</i> , 1994, 264, 1120-1123.	6.0	273
108	Flow of deep and bottom waters in the Pacific at 10Â°N. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993, 40, 371-394.	0.6	114

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109	Implementation of a titanium strain gauge pressure transducer for CTD applications. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1009-1021.	0.6	4
110	Mean circulation of the upper layers of the western equatorial Pacific Ocean. Journal of Geophysical Research, 1993, 98, 22495-22520.	3.3	105
111	A hydrographic section across the subtropical South Indian Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1973-2019.	0.6	225
112	Variation of the western equatorial Pacific Ocean, 1986-1988. Journal of Geophysical Research, 1992, 97, 5423-5445.	3.3	85
113	The response of the western equatorial Pacific Ocean to westerly wind bursts during November 1989 to January 1990. Journal of Geophysical Research, 1992, 97, 14289-14303.	3.3	110
114	Descriptive oceanography during the Frontal Air-Sea Interaction Experiment: Medium- to large-scale variability. Journal of Geophysical Research, 1991, 96, 8553-8567.	3.3	30
115	Observations of the Pacific North Equatorial Current Bifurcation at the Philippine Coast. Journal of Physical Oceanography, 1990, 20, 307-318.	0.7	197
116	Variability in the Western Equatorial Pacific Ocean during the 1986-87 El Niño/Southern Oscillation Event. Journal of Physical Oceanography, 1990, 20, 190-208.	0.7	83
117	Thermohaline structure and zonal pressure gradient in the western equatorial Pacific. Journal of Geophysical Research, 1990, 95, 7279-7288.	3.3	5
118	Meridional variability of turbulence through the equatorial undercurrent. Journal of Geophysical Research, 1989, 94, 18003-18009.	3.3	32
119	On the parameterization of equatorial turbulence. Journal of Geophysical Research, 1988, 93, 1199-1218.	3.3	329
120	On the circulation of the upper waters in the western equatorial Pacific Ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 1451-1482.	1.6	90
121	The Development of a Fine- and Microstructure Profiler. Journal of Atmospheric and Oceanic Technology, 1988, 5, 484-500.	0.5	77
122	Upper Ocean Shear and Density Variability at the Equator during TROPIC HEAT. Journal of Physical Oceanography, 1987, 17, 1397-1406.	0.7	27
123	WOCE, interbasin exchanges, and marginal sea overflows. Eos, 1987, 68, 2.	0.1	3
124	Hydrographic conditions in the Eastern Pacific before, during and after the 1982/83 El Niño. Progress in Oceanography, 1987, 19, 1-47.	1.5	10
125	Small-scale structures in the north-west Atlantic sub-tropical front. Nature, 1987, 327, 47-49.	13.7	21
126	Eastern Pacific Ocean circulation near the onset of the 1982-1983 El Niño. Journal of Geophysical Research, 1986, 91, 8428-8436.	3.3	11

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127	Heat and fresh water budgets of the Indian Ocean—revisited. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 917-928.	1.6	38
128	Near equatorial CTD observations at 85°W in October 1982. Journal of Geophysical Research, 1985, 90, 929-933.	3.3	5
129	Finescale Velocity-Density Characteristics and Richardson Number Statistics of the Eastern Equatorial Pacific. Journal of Physical Oceanography, 1984, 14, 712-726.	0.7	15
130	Observations of Horizontal Velocities and Vertical Displacements in the Equatorial Pacific Ocean Associated with the Early Stages of the 1982/83 El Niño. Journal of Physical Oceanography, 1984, 14, 948-959.	0.7	13
131	Water-Mass and Transport Variability at 110°W in the Equatorial Pacific. Journal of Physical Oceanography, 1983, 13, 153-168.	0.7	27
132	Sea ice, winter convection, and the temperature minimum layer in the Southern Ocean. Journal of Geophysical Research, 1981, 86, 8037-8047.	3.3	49
133	On the dynamics and effects of double-diffusively driven intrusions. Progress in Oceanography, 1981, 10, 123-145.	1.5	125
134	Anomalous Characteristics of Equatorial Thermohaline Finestructure. Journal of Physical Oceanography, 1981, 11, 871-876.	0.7	37
135	Intrusion Characteristics in the Antarctic Polar Front. Journal of Physical Oceanography, 1981, 11, 780-793.	0.7	43
136	Sensor Response Mismatches and Lag Correction Techniques for Temperature-Salinity Profilers. Journal of Physical Oceanography, 1980, 10, 1122-1130.	0.7	44
137	A fast responding temperature measurement system for CTD applications. Ocean Engineering, 1980, 7, 413-427.	1.9	14
138	The anatomy of the Antarctic polar front in the Drake Passage. Journal of Geophysical Research, 1978, 83, 6093-6113.	3.3	115
139	Two Decades of Full-Depth Current Velocity Observations From a Moored Observatory in the Central Equatorial Atlantic at 0°N, 23°W. Frontiers in Marine Science, 0, 9, .	1.2	5