

# H Thomas Rossby

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7530610/publications.pdf>

Version: 2024-02-01

72  
papers

3,258  
citations

159525

30  
h-index

155592

55  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2606  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical experiments with a fluid heated non-uniformly from below. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 50, 242.	0.8	45
2	Directly measured currents and estimated transport pathways of Atlantic Water between 59.5°N and the Iceland–Faroes–Scotland Ridge. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 67, 28067.	0.8	10
3	Atlantic circulation change still uncertain. <i>Nature Geoscience</i> , 2022, 15, 165-167.	5.4	29
4	On Rates of Isopycnal Dispersion at the Submesoscale. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093526.	1.5	3
5	Discovery of an unrecognized pathway carrying overflow waters toward the Faroe Bank Channel. <i>Nature Communications</i> , 2020, 11, 3721.	5.8	18
6	What can Hydrography Tell Us About the Strength of the Nordic Seas MOC Over the Last 70 to 100 Years?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087456.	1.5	18
7	Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic. <i>Nature Communications</i> , 2020, 11, 585.	5.8	142
8	A Double-Thermostad Warm-Core Ring of the Gulf Stream. <i>Journal of Physical Oceanography</i> , 2020, 50, 489-507.	0.7	12
9	More Than 50 Years of Successful Continuous Temperature Section Measurements by the Global Expendable Bathythermograph Network, Its Integrability, Societal Benefits, and Future. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	31
10	Isopycnal Mixing in the North Atlantic Oxygen Minimum Zone Revealed by RAFOS Floats. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6478-6497.	1.0	8
11	The Scientific and Societal Uses of Global Measurements of Subsurface Velocity. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	3
12	Volume, Heat, and Freshwater Divergences in the Subpolar North Atlantic Suggest the Nordic Seas as Key to the State of the Meridional Overturning Circulation. <i>Geophysical Research Letters</i> , 2019, 46, 4799-4808.	1.5	75
13	Oleander is More than a Flower: Twenty-Five Years of Oceanography Aboard a Merchant Vessel. <i>Oceanography</i> , 2019, 32, 126-137.	0.5	10
14	Atlantic Water Transformation Along Its Poleward Pathway Across the Nordic Seas. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6428-6448.	1.0	29
15	A Direct Estimate of Volume, Heat, and Freshwater Exchange Across the Greenland–Iceland–Faroe–Scotland Ridge. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7139-7153.	1.0	26
16	A Miniature Acoustic Device for Tracking Small Marine Animals or Submerged Drifters. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2601-2612.	0.5	2
17	A direct estimate of poleward volume, heat, and freshwater fluxes at 59.5°N between Greenland and Scotland. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5870-5887.	1.0	15
18	AXIS—An Autonomous Expendable Instrument System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2673-2682.	0.5	3

#	ARTICLE	IF	CITATIONS
19	A New Technology for Continuous Long-Range Tracking of Fish and Lobster. <i>Oceanography</i> , 2017, 30, 36-37.	0.5	41
20	On the long-term stability of the Lofoten Basin Eddy. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4438-4449.	1.0	30
21	Visualizing and Quantifying Oceanic Motion. <i>Annual Review of Marine Science</i> , 2016, 8, 35-57.	5.1	9
22	Direct velocity observations of volume flux between Iceland and the Shetland Islands. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5934-5944.	1.0	18
23	A Comparison of Vessel-Mounted Acoustic Doppler Current Profiler and Satellite Altimeter Estimates of Sea Surface Height and Transports between New Jersey and Bermuda along the CMV Oleander Route. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1422-1433.	0.5	8
24	On the spatial structure and temporal variability of poleward transport between Scotland and Greenland. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 824-841.	1.0	34
25	On the long-term stability of Gulf Stream transport based on 20% years of direct measurements. <i>Geophysical Research Letters</i> , 2014, 41, 114-120.	1.5	65
26	On the structure and distribution of thin anticyclonic lenses in the southeast Pacific Ocean. <i>Journal of Marine Research</i> , 2014, 72, 383-403.	0.3	4
27	On the structure of the Lofoten Basin Eddy. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4201-4212.	1.0	48
28	Partnership proposed for ocean observation. <i>Eos</i> , 2012, 93, 144-144.	0.1	2
29	Direct measurement of volume flux in the Faroe-Shetland Channel and over the Iceland-Faroe Ridge. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	37
30	A tale of two eddies: Diagnosing coherent eddies through acoustic remote sensing. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	11
31	Drifters in the Gulf Stream. <i>Journal of Marine Research</i> , 2010, 68, 699-721.	0.3	7
32	H. Thomas Rossby Receives 2009 Maurice Ewing Medal. <i>Eos</i> , 2010, 91, 59-59.	0.1	0
33	Wavenumber Spectrum in the Gulf Stream from Shipboard ADCP Observations and Comparison with Altimetry Measurements. <i>Journal of Physical Oceanography</i> , 2010, 40, 840-844.	0.7	57
34	On the variability of Gulf Stream transport from seasonal to decadal timescales. <i>Journal of Marine Research</i> , 2010, 68, 503-522.	0.3	49
35	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.	0.6	63
36	Pathways of inflow and dispersion of warm waters in the Nordic seas. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	70

#	ARTICLE	IF	CITATIONS
37	Current broadening as a mechanism for anticyclogenesis at the Northwest Corner of the North Atlantic Current. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	5
38	On the size and distribution of rings and coherent vortices in the Sargasso Sea. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
39	Rigid topographic control of currents in the Nordic Seas. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	43
40	Free falling Probe Current and Temperature Measurement System. , 2008, , .		0
41	Evolution of Lagrangian methods in oceanography. , 2007, , 1-38.		16
42	Tracking Fishes With a Microwatt Acoustical Receiver – An Archival Tag Development. <i>IEEE Journal of Oceanic Engineering</i> , 2006, 31, 975-985.	2.1	8
43	A study of the currents of the outer shelf and upper slope from a decade of shipboard ADCP observations in the Middle Atlantic Bight. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	64
44	On variations in static stability along Lagrangian trajectories. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 465-479.	0.6	5
45	Direct measurements of the mean flow and eddy kinetic energy structure of the upper ocean circulation in the NE Atlantic. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	21
46	Oxygen variability in the near-surface waters of the northern North Atlantic: Observations and a model. <i>Journal of Marine Research</i> , 2004, 62, 663-683.	0.3	7
47	Absolute Transports of Mass and Temperature for the North Atlantic Current – Subpolar Front System. <i>Journal of Physical Oceanography</i> , 2004, 34, 1870-1883.	0.7	29
48	Current switching as the cause of rapid warming at the end of the last Glacial Maximum and Younger Dryas. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	6
49	Ocean Eddies in the 1539 Carta Marina by Olaus Magnus. <i>Oceanography</i> , 2003, 16, 77-88.	0.5	11
50	Directly measured mid-depth circulation in the northeastern North Atlantic Ocean. <i>Nature</i> , 2002, 419, 603-607.	13.7	206
51	Pathways of cross-frontal exchange in the North Atlantic Current. <i>Journal of Geophysical Research</i> , 2001, 106, 26917-26928.	3.3	23
52	Isopycnal Lagrangian statistics from the North Atlantic Current RAFOS float observations. <i>Journal of Geophysical Research</i> , 2001, 106, 13817-13836.	3.3	68
53	The near-surface velocity and potential vorticity structure of the Gulf Stream. <i>Journal of Marine Research</i> , 2001, 59, 949-975.	0.3	45
54	Seasonal and Low-Frequency Variability of the Meridional Heat Flux at 36°N in the North Atlantic. <i>Journal of Physical Oceanography</i> , 2000, 30, 606-621.	0.7	28

#	ARTICLE	IF	CITATIONS
55	Slow variations in mean path of the Gulf Stream east of Cape Hatteras. <i>Geophysical Research Letters</i> , 2000, 27, 117-120.	1.5	86
56	An Alternative Hypothesis for the Origin of the "Mediterranean" Salt Lens Observed off the Bahamas in the Fall of 1976. <i>Journal of Physical Oceanography</i> , 1999, 29, 2103-2109.	0.7	20
57	Operating an Acoustic Doppler Current Profiler aboard a Container Vessel. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998, 15, 257-271.	0.5	45
58	The Oleander Project: Monitoring the Variability of the Gulf Stream and Adjacent Waters between New Jersey and Bermuda. <i>Bulletin of the American Meteorological Society</i> , 1998, 79, 5-18.	1.7	55
59	Analysis of Lagrangian Potential Vorticity Balance and Lateral Displacement of Water Parcels in Gulf Stream Meanders. <i>Journal of Physical Oceanography</i> , 1997, 27, 325-339.	0.7	17
60	Isopycnal RAFOS floats as roving hydrographers in the North Atlantic Current Region. <i>Geophysical Research Letters</i> , 1997, 24, 551-554.	1.5	12
61	The North Atlantic Current and surrounding waters: At the crossroads. <i>Reviews of Geophysics</i> , 1996, 34, 463-481.	9.0	159
62	Lagrangian Studies of Fluid Exchange between the Gulf Stream and Surrounding Waters. <i>Journal of Physical Oceanography</i> , 1995, 25, 46-63.	0.7	34
63	Seasonal and low frequency variations in dynamic height anomaly and transport of the Gulf Stream. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 149-164.	0.6	39
64	Kinematics and Dynamics of a Mediterranean Salt Lens. <i>Journal of Physical Oceanography</i> , 1991, 21, 879-892.	0.7	70
65	A test of geostrophy in the Gulf Stream. <i>Journal of Geophysical Research</i> , 1989, 94, 3211-3222.	3.3	50
66	Evidence of Cross-Frontal Exchange Processes in the Gulf Stream Based on Isopycnal RAFOS Float Data. <i>Journal of Physical Oceanography</i> , 1989, 19, 1177-1190.	0.7	194
67	Two Years in the Life of a Mediterranean Salt Lens. <i>Journal of Physical Oceanography</i> , 1989, 19, 354-370.	0.7	277
68	The history and decay of a Mediterranean salt lens. <i>Nature</i> , 1988, 333, 649-651.	13.7	96
69	On the energetics of the Gulf Stream at 73W. <i>Journal of Marine Research</i> , 1987, 45, 59-82.	0.3	53
70	The RAFOS System. <i>Journal of Atmospheric and Oceanic Technology</i> , 1986, 3, 672-679.	0.5	210
71	The Structure and Transport of the Gulf Stream at 73°W. <i>Journal of Physical Oceanography</i> , 1985, 15, 1439-1452.	0.7	217
72	Lagrangian studies of deep ocean currents. <i>Eos</i> , 1984, 65, 82.	0.1	0