N Penny Holliday

List of Publications by Year
in descending order

69 papers	3,065 citations	159525 30 h-index	168321 53 g-index
72 all docs	72 docs citations	72 times ranked	3360 citing authors

#	Article	IF	Citations
1	Rapid Communication of Upperâ€Ocean Salinity Anomaly to Deep Waters of the Iceland Basin Indicates an AMOC Shortâ€Cut. Geophysical Research Letters, 2022, 49, .	1.5	3
2	Historical Reconstruction of Subpolar North Atlantic Overturning and Its Relationship to Density. Journal of Geophysical Research: Oceans, 2022, 127, .	1.0	4
3	How Much Arctic Fresh Water Participates in the Subpolar Overturning Circulation?. Journal of Physical Oceanography, 2021, 51, 955-973.	0.7	14
4	Cyclonic eddies in the West Greenland Boundary Current System. Journal of Physical Oceanography, 2021, , .	0.7	3
5	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. Nature Communications, 2021, 12, 3002.	5.8	47
6	Distinct sources of interannual subtropical and subpolar Atlantic overturning variability. Nature Geoscience, 2021, 14, 491-495.	5.4	23
7	Observed Deep Cyclonic Eddies around Southern Greenland. Journal of Physical Oceanography, 2021, , .	0.7	3
8	Observation-based estimates of heat and freshwater exchanges from the subtropical North Atlantic to the Arctic. Progress in Oceanography, 2021, 197, 102640.	1.5	17
9	Importance of Boundary Processes for Heat Uptake in the Subpolar North Atlantic. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016366.	1.0	8
10	Observed Variability of the North Atlantic Current in the Rockall Trough From 4ÂYears of Mooring Measurements. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016403.	1.0	7
11	Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic. Nature Communications, 2020, 11, 585.	5.8	142
12	Rapid Export of Waters Formed by Convection Near the Irminger Sea's Western Boundary. Geophysical Research Letters, 2020, 47, e2019GL085989.	1.5	29
13	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.	1.2	21
14	The Observation-Based Application of a Regional Thermohaline Inverse Method to Diagnose the Formation and Transformation of Water Masses North of the OSNAP Array from 2013 to 2015. Journal of Physical Oceanography, 2020, 50, 1533-1555.	0.7	7
15	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, .	1.2	120
16	Insights into Decadal North Atlantic Sea Surface Temperature and Ocean Heat Content Variability from an Eddy-Permitting Coupled Climate Model. Journal of Climate, 2019, 32, 6137-6161.	1.2	12
17	A sea change in our view of overturning in the subpolar North Atlantic. Science, 2019, 363, 516-521.	6.0	333
18	Transport Variability of the Irminger Sea Deep Western Boundary Current From a Mooring Array. Journal of Geophysical Research: Oceans, 2019, 124, 3246-3278.	1.0	11

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19	Local and Downstream Relationships between Labrador Sea Water Volume and North Atlantic Meridional Overturning Circulation Variability. Journal of Climate, 2019, 32, 3883-3898.	1.2	41
20	The ICES Working Group on Oceanic Hydrography: A Bridge From In-situ Sampling to the Remote Autonomous Observation Era. Frontiers in Marine Science, 2019, 6, .	1.2	4
21	Sources and Distribution of Fresh Water Around Cape Farewell in 2014. Journal of Geophysical Research: Oceans, 2019, 124, 9404-9416.	1.0	5
22	North Atlantic extratropical and subpolar gyre variability during the last 120Âyears: a gridded dataset of surface temperature, salinity, and density. Part 1: dataset validation and RMS variability. Ocean Dynamics, 2019, 69, 385-403.	0.9	11
23	Seasonal Cycles of Oceanic Transports in the Eastern Subpolar North Atlantic. Journal of Geophysical Research: Oceans, 2018, 123, 1471-1484.	1.0	8
24	Meridional heat transport variability induced by mesoscale processes in the subpolar North Atlantic. Nature Communications, 2018, 9, 1124.	5.8	29
25	Seasonality of Freshwater in the East Greenland Current System From 2014 to 2016. Journal of Geophysical Research: Oceans, 2018, 123, 8828-8848.	1.0	34
26	Recent multivariate changes in the North Atlantic climate system, with a focus on 2005â€“2016. International Journal of Climatology, 2018, 38, 5050-5076.	1.5	34
27	Subpolar North Atlantic Overturning and Gyreâ€Scale Circulation in the Summers of 2014 and 2016. Journal of Geophysical Research: Oceans, 2018, 123, 4538-4559.	1.0	44
28	A Regional Thermohaline Inverse Method for Estimating Circulation and Mixing in the Arctic and Subpolar North Atlantic. Journal of Atmospheric and Oceanic Technology, 2018, 35, 2383-2403.	0.5	5
29	Simulating pathways of subsurface oil in the Faroeâ€“Shetland Channel using an ocean general circulation model. Marine Pollution Bulletin, 2017, 114, 315-326.	2.3	11
30	Composition of freshwater in the spring of 2014 on the southern Labrador shelf and slope. Journal of Geophysical Research: Oceans, 2017, 122, 1102-1121.	1.0	13
31	Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. Bulletin of the American Meteorological Society, 2017, 98, 737-752.	1.7	173
32	Transports and pathways of overflow water in the Rockall Trough. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 122, 48-59.	0.6	9
33	Multidecadal accumulation of anthropogenic and remineralized dissolved inorganic carbon along the Extended Ellett Line in the northeast Atlantic Ocean. Global Biogeochemical Cycles, 2016, 30, 293-310.	1.9	8
34	Multidecadal variability of potential temperature, salinity, and transport in the eastern subpolar <scp>N</scp>orth <scp>A</scp>tlantic. Journal of Geophysical Research: Oceans, 2015, 120, 5945-5967.	1.0	55
35	Interannual variability of the northwestern Iberia deep ocean: Response to largeâ€scale North Atlantic forcing. Journal of Geophysical Research: Oceans, 2015, 120, 832-847.	1.0	11
36	Intra-seasonal variability of the DWBC in the western subpolar North Atlantic. Progress in Oceanography, 2015, 132, 233-249.	1.5	46

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37	The North Atlantic subpolar circulation in an eddy-resolving global ocean model. Journal of Marine Systems, 2015, 142, 126-143.	0.9	145
38	Seasonal variability of the East Greenland Coastal Current. Journal of Geophysical Research: Oceans, 2014, 119, 3967-3987.	1.0	51
39	The marine environment. , 2013, , 63-76.		2
40	Unusual subpolar North Atlantic phytoplankton bloom in 2010: Volcanic fertilization or North Atlantic Oscillation?. Journal of Geophysical Research: Oceans, 2013, 118, 4771-4780.	1.0	25
41	Variability in the ICES/NAFO region between 1950 and 2009: observations from the ICES Report on Ocean Climate. ICES Journal of Marine Science, 2012, 69, 706-719.	1.2	22
42	The impact of changes in North Atlantic Gyre distribution on water mass characteristics in the Rockall Trough. ICES Journal of Marine Science, 2012, 69, 751-757.	1.2	21
43	Multi-decadal variability and trends in the temperature of the northwest European continental shelf: A model-data synthesis. Progress in Oceanography, 2012, 106, 96-117.	1.5	60
44	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.	1.6	16
45	Polar outflow from the Arctic Ocean: A high resolution model study. Journal of Marine Systems, 2010, 83, 14-37.	0.9	62
46	Role of ciliates and other microzooplankton in the Irminger Sea (NW Atlantic Ocean). Marine Ecology - Progress Series, 2010, 411, 101-115.	0.9	33
47	Comparison of in situ time-series of temperature with gridded sea surface temperature datasets in the North Atlantic. ICES Journal of Marine Science, 2009, 66, 1467-1479.	1.2	21
48	Circulation and Transport in the Western Boundary Currents at Cape Farewell, Greenland. Journal of Physical Oceanography, 2009, 39, 1854-1870.	0.7	60
49	Factors Controlling the Abundance and Size Distribution of the Phototrophic CiliateMyrionecta rubrain Open Waters of the North Atlantic. Journal of Eukaryotic Microbiology, 2008, 55, 457-465.	0.8	24
50	Spatial demography of Calanus finmarchicus in the Irminger Sea. Progress in Oceanography, 2008, 76, 39-88.	1.5	47
51	Reversal of the 1960s to 1990s freshening trend in the northeast North Atlantic and Nordic Seas. Geophysical Research Letters, 2008, 35, .	1.5	202
52	Intensified turbulent mixing in the boundary current system of southern Greenland. Geophysical Research Letters, 2008, 35, .	1.5	24
53	The History of the Labrador Sea Water: Production, Spreading, Transformation and Loss. , 2008, , 569-612.		24
54	Regional and temporal variation of Oithona spp. biomass, stage structure and productivity in the Irminger Sea, North Atlantic. Journal of Plankton Research, 2007, 29, 1051-1070.	0.8	41

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55	Retroflection of part of the east Greenland current at Cape Farewell. Geophysical Research Letters, 2007, 34, .	1.5	57
56	Observational program tracks Arctic Ocean transition to a warmer state. Eos, 2007, 88, 398-399.	0.1	58
57	Transformation of the Labrador Sea Water in the subpolar North Atlantic. Geophysical Research Letters, 2007, 34, .	1.5	64
58	Were extreme waves in the Rockall Trough the largest ever recorded?. Geophysical Research Letters, 2006, 33, .	1.5	54
59	Large-scale physical controls on phytoplankton growth in the Irminger Sea Part I: Hydrographic zones, mixing and stratification. Journal of Marine Systems, 2006, 59, 201-218.	0.9	54
60	Large-scale physical controls on phytoplankton growth in the Irminger Sea, Part II: Model study of the physical and meteorological preconditioning. Journal of Marine Systems, 2006, 59, 219-237.	0.9	34
61	Freshwater control of onset and species composition of Greenland shelf spring bloom. Marine Ecology - Progress Series, 2005, 288, 45-57.	0.9	32
62	External and internal control of winter concentrations of nutrients (N, P and Si) in north-west European shelf seas. Estuarine, Coastal and Shelf Science, 2004, 59, 151-161.	0.9	33
63	Water masses and circulation pathways through the Iceland Basin during Vivaldi 1996. Journal of Geophysical Research, 2004, 109, .	3.3	58
64	Air-sea interaction and circulation changes in the northeast Atlantic. Journal of Geophysical Research, 2003, 108, .	3.3	68
65	Is there a connection between high transport of water through the Rockall Trough and ecological changes in the North Sea?. ICES Journal of Marine Science, 2001, 58, 270-274.	1.2	27
66	Pulses in the eastern margin current and warmer water off the north west European shelf linked to North Sea ecosystem changes. Marine Ecology - Progress Series, 2001, 215, 283-287.	0.9	89
67	Water mass properties and fluxes in the Rockall Trough, 1975â€“1998. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 1303-1332.	0.6	136
68	Surface oceanic fronts between Africa and Antarctica. Deep-Sea Research Part I: Oceanographic Research Papers, 1998, 45, 217-238.	0.6	74
69	A comparison of simultaneous measurements from shipboard VM-150 and OS-75 acoustic doppler current profilers. , 0, , .		0