Igor Yashayaev

List of Publications by Year
in descending order

83	5,535	109321 35	82547 72
papers	citations	h-index	g-index

85	85	85	4788
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A change in the freshwater balance of the Atlantic Ocean over the past four decades. Nature, 2003, 426, 826-829.	27.8	486
2	Rapid freshening of the deep North Atlantic Ocean over the past four decades. Nature, 2002, 416, 832-837.	27.8	483
3	A sea change in our view of overturning in the subpolar North Atlantic. Science, 2019, 363, 516-521.	12.6	333
4	Anomalously weak Labrador Sea convection and Atlantic overturning during the past 150 years. Nature, 2018, 556, 227-230.	27.8	293
5	Hydrographic changes in the Labrador Sea, 1960â€“2005. Progress in Oceanography, 2007, 73, 242-276.	3.2	288
6	Convection and restratification in the Labrador Sea, 1990â€“2000. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1819-1835.	1.4	248
7	Current estimates of freshwater flux through Arctic and subarctic seas. Progress in Oceanography, 2007, 73, 210-230.	3.2	234
8	Recurrent replenishment of Labrador Sea Water and associated decadal-scale variability. Journal of Geophysical Research: Oceans, 2016, 121, 8095-8114.	2.6	152
9	Ocean circulation causes the largest freshening event for 120 years in eastern subpolar North Atlantic. Nature Communications, 2020, 11, 585.	12.8	142
10	Enhanced production of Labrador Sea Water in 2008. Geophysical Research Letters, 2009, 36, .	4.0	133
11	North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-annual to decadal variability. Ocean Modelling, 2016, 97, 65-90.	2.4	131
12	Recent changes of the thermohaline circulation in the subpolar North Atlantic. Ocean Dynamics, 2007, 57, 223-235.	2.2	124
13	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
14	Deep water formation, the subpolar gyre, and the meridional overturning circulation in the subpolar North Atlantic. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 1819-1832.	1.4	116
15	Spreading of the Labrador Sea Water to the Irminger and Iceland basins. Geophysical Research Letters, 2007, 34, .	4.0	113
16	Further intensification of deep convection in the Labrador Sea in 2016. Geophysical Research Letters, 2017, 44, 1429-1438.	4.0	110
17	Migration Pathways, Behavioural Thermoregulation and Overwintering Grounds of Blue Sharks in the Northwest Atlantic. PLoS ONE, 2011, 6, e16854.	2.5	106
18	Deep water changes at the western boundary of the subpolar North Atlantic during 1996 to 2001. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 1033-1056.	1.4	93

#	Article	IF	Citations
19	Arctic Ocean Freshwater Changes over the Past 100 Years and Their Causes. Journal of Climate, 2008, 21, 364-384.	3.2	93
20	Studies of Labrador Sea Water formation and variability in the subpolar North Atlantic in the light of international partnership and collaboration. Progress in Oceanography, 2015, 132, 220-232.	3.2	82
21	Arctic Ocean change heralds North Atlantic freshening. Geophysical Research Letters, 2005, 32, .	4.0	81
22	The role of the Atlantic Water in multidecadal ocean variability in the Nordic and Barents Seas. Progress in Oceanography, 2015, 132, 68-127.	3.2	80
23	Distributions of Calanus spp. and other mesozooplankton in the Labrador Sea in relation to hydrography in spring and summer (1995â€“2000). Progress in Oceanography, 2003, 59, 1-30.	3.2	69
24	Irminger Sea deep convection injects oxygen and anthropogenic carbon to the ocean interior. Nature Communications, 2016, 7, 13244.	12.8	69
25	Drivers of epibenthic megafaunal composition in the sponge grounds of the Sackville Spur, northwest Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 98, 102-114.	1.4	67
26	Transformation of the Labrador Sea Water in the subpolar North Atlantic. Geophysical Research Letters, 2007, 34, .	4.0	64
27	Decadal and multi-decadal variability of Labrador Sea Water in the north-western North Atlantic Ocean derived from tracer distributions: Heat budget, ventilation, and advection. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 505-523.	1.4	61
28	North Atlantic climate and deepâ€ocean flow speed changes during the last 230 years. Geophysical Research Letters, 2007, 34, .	4.0	53
29	Time series study of CFC concentrations in the Labrador Sea during deep and shallow convection regimes (1991â€“2000). Journal of Geophysical Research, 2003, 108, .	3.3	50
30	Role of Greenland Freshwater Anomaly in the Recent Freshening of the Subpolar North Atlantic. Journal of Geophysical Research: Oceans, 2019, 124, 3333-3360.	2.6	48
31	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. Nature Communications, 2021, 12, 3002.	12.8	47
32	Recent changes in the North Atlantic. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1917-1934.	3.4	44
33	Surface changes in the eastern Labrador Sea around the onset of the Little Ice Age. Paleoceanography, 2014, 29, 160-175.	3.0	42
34	Ventilation variability of Labrador Sea Water and its impact on oxygen and anthropogenic carbon: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160321.	3.4	41
35	A new collective view of oceanography of the Arctic and North Atlantic basins. Progress in Oceanography, 2015, 132, 1-21.	3.2	39
36	Predicted distribution of the glass sponge Vazella pourtalesi on the Scotian Shelf and its persistence in the face of climatic variability. PLoS ONE, 2018, 13, e0205505.	2.5	36

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37	Absolute velocity along the AR7W section in the Labrador Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 72, 72-87.	1.4	35
38	Tracking Labrador Sea Water property signals along the Deep Western Boundary Current. Journal of Geophysical Research: Oceans, 2017, 122, 5348-5366.	2.6	34
39	Spring phytoplankton communities of the Labrador Sea (2005â€“2014): pigment signatures, photophysiology and elemental ratios. Biogeosciences, 2017, 14, 1235-1259.	3.3	33
40	Evolution of North Atlantic Water Masses Inferred from Labrador Sea Salinity Series. Oceanography, 2008, 21, 30-45.	1.0	30
41	Biogeographical patterns and environmental controls of phytoplankton communities from contrasting hydrographical zones of the Labrador Sea. Progress in Oceanography, 2016, 141, 212-226.	3.2	30
42	Connectivity modelling of areas closed to protect vulnerable marine ecosystems in the northwest Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 143, 85-103.	1.4	29
43	Deep-ocean temperature variations and implications for errors in seafloor heat flow determinations. Journal of Geophysical Research, 2003, 108, .	3.3	28
44	Water mass characteristics and associated fauna of a recently discovered Lophelia pertusa (Scleractinia: Anthozoa) reef in Greenlandic waters. Polar Biology, 2017, 40, 321-337.	1.2	28
45	Oxygen Saturation Surrounding Deep Water Formation Events in the Labrador Sea From Argoâ€O‹sub›2‹/sub› Data. Global Biogeochemical Cycles, 2018, 32, 635-653.	4.9	27
46	Transformation and Fate of Overflows in the Northern North Atlantic. , 2008, , 505-526.		27
47	The spatial and temporal behaviour of the lower stratospheric temperature over the Southern Hemisphere: the MSU view. Part I: data, methodology and temporal behaviour. International Journal of Climatology, 2001, 21, 419-437.	3.5	26
48	Irminger Current Anticyclones in the Labrador Sea observed in the hydrographic record, 1990â€“2004. Journal of Marine Research, 2009, 67, 361-384.	0.3	25
49	Climate Comparisons and Change Projections for the Northwest Atlantic from Six CMIP5 Models. Atmosphere - Ocean, 2015, 53, 529-555.	1.6	25
50	An abrupt shift in the Labrador Current System in relation to winter NAO events. Journal of Geophysical Research: Oceans, 2016, 121, 5338-5349.	2.6	25
51	Water mass circulation and weathering inputs in the Labrador Sea based on coupled Hfâ€“Nd isotope compositions and rare earth element distributions. Geochimica Et Cosmochimica Acta, 2017, 199, 164-184.	3.9	24
52	The History of the Labrador Sea Water: Production, Spreading, Transformation and Loss. , 2008, , 569-612.		24
53	Role of Resolved and Parameterized Eddies in the Labrador Sea Balance of Heat and Buoyancy. Journal of Physical Oceanography, 2014, 44, 3008-3032.	1.7	22
54	Mesoscale physical variability affects zooplankton production in the Labrador Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 703-715.	1.4	20

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55	Labrador Sea Water Formation Rate and Its Impact on the Local Meridional Overturning Circulation. Journal of Geophysical Research: Oceans, 2019, 124, 5654-5670.	2.6	18
56	Using Noble Gas Measurements to Derive Airâ€Sea Process Information and Predict Physical Gas Saturations. Geophysical Research Letters, 2017, 44, 9901-9909.	4.0	17
57	Variability of the directly observed, middepth subpolar North Atlantic circulation. Geophysical Research Letters, 2016, 43, 2700-2708.	4.0	16
58	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. Science Advances, 2022, 8, .	10.3	16
59	Oceanographic setting influences the prokaryotic community and metabolome in deep-sea sponges. Scientific Reports, 2022, 12, 3356.	3.3	15
60	Surface buoyant plumes from melting icebergs in the Labrador Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 91, 1-9.	1.4	14
61	Seasonality of the inshore Labrador current over the Newfoundland shelf. Continental Shelf Research, 2015, 100, 1-10.	1.8	14
62	Relevance of dissolved organic nutrients for the Arctic Ocean nutrient budget. Geophysical Research Letters, 2016, 43, 6418-6426.	4.0	13
63	Composition of freshwater in the spring of 2014 on the southern Labrador shelf and slope. Journal of Geophysical Research: Oceans, 2017, 122, 1102-1121.	2.6	13
64	Diatom Biogeography From the Labrador Sea Revealed Through a Trait-Based Approach. Frontiers in Marine Science, 2018, 5, .	2.5	12
65	Changing freshwater content: Insights from the subpolar North Atlantic and new oceanographic challenges. Progress in Oceanography, 2007, 73, 203-209.	3.2	11
66	North Atlantic atmospheric and ocean inter-annual variability over the past fifty years â€“ Dominant patterns and decadal shifts. Progress in Oceanography, 2015, 132, 197-219.	3.2	11
67	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.	2.2	11
68	Variability of <scp>L</scp>abrador <scp>S</scp>ea <scp>W</scp>ater transported through Flemish Pass during 1993â€“2013. Journal of Geophysical Research: Oceans, 2015, 120, 5514-5533.	2.6	10
69	Changes in zooplankton communities from epipelagic to lower mesopelagic waters. Marine Environmental Research, 2019, 146, 1-11.	2.5	10
70	The interannual variability of potential temperature in the central Labrador Sea. Journal of Geophysical Research, 2012, 117, .	3.3	9
71	Modelling hydrographic changes in the Labrador sea over the past five decades. Progress in Oceanography, 2007, 73, 406-426.	3.2	8
72	Chapter 7.3 The world during WOCE. International Geophysics, 2001, 77, 557-583.	0.6	7

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73	3-D ocean particle tracking modeling reveals extensive vertical movement and downstream interdependence of closed areas in the northwest Atlantic. Scientific Reports, 2020, 10, 21421.	3.3	7
74	A breaking internal wave in the surface ocean boundary layer. Journal of Geophysical Research: Oceans, 2015, 120, 4151-4161.	2.6	6
75	A 30Ââ€Year Time Series of Transient Tracerâ€Based Estimates of Anthropogenic Carbon in the Central Labrador Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017092.	2.6	6
76	The CISE-LOCEAN seawater isotopic database (1998â€“2021). Earth System Science Data, 2022, 14, 2721-2735.	9.9	6
77	Assessment of Quality and Reliability of Measurements with XBT Sippican T5 and T5/20. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1935-1960.	1.3	5
78	Sources and Distribution of Fresh Water Around Cape Farewell in 2014. Journal of Geophysical Research: Oceans, 2019, 124, 9404-9416.	2.6	5
79	Time scales of the Greenland Freshwater Anomaly in the Subpolar North Atlantic. Journal of Climate, 2021, , 1-58.	3.2	3
80	Recent nutrient enrichment and high biological productivity in the Labrador Sea is tied to enhanced winter convection. Progress in Oceanography, 2022, 206, 102848.	3.2	3
81	Characteristics of the variability of the surface temperature in the Atlantic Ocean on various spatial-temporal scales. Physical Oceanography, 1993, 4, 45-52.	0.9	2
82	Some peculiarities of the sea surface temperature in the vicinity of western boundary currents. Physical Oceanography, 1995, 6, 465-469.	0.9	1
83	Deep-ocean flow-speed changes linked to the NAO through Labrador Sea convection. PAGES News, 2008, 16, 32-33.	0.3	0