

Igor V Polyakov

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,150
citations

159585

30
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

4402
citing authors

#	ARTICLE	IF	CITATIONS
1	Greater role for Atlantic inflows on sea-ice loss in the Eurasian Basin of the Arctic Ocean. <i>Science</i> , 2017, 356, 285-291.	12.6	576
2	Role of Polar Amplification in Long-Term Surface Air Temperature Variations and Modern Arctic Warming. <i>Journal of Climate</i> , 2010, 23, 3888-3906.	3.2	439
3	Arctic Ocean Warming Contributes to Reduced Polar Ice Cap. <i>Journal of Physical Oceanography</i> , 2010, 40, 2743-2756.	1.7	284
4	One more step toward a warmer Arctic. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	272
5	Arctic decadal and interdecadal variability. <i>Geophysical Research Letters</i> , 2000, 27, 4097-4100.	4.0	183
6	Borealization of the Arctic Ocean in Response to Anomalous Advection From Sub-Arctic Seas. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	174
7	Recent Declines in Warming and Vegetation Greening Trends over Pan-Arctic Tundra. <i>Remote Sensing</i> , 2013, 5, 4229-4254.	4.0	167
8	Recent Changes of Arctic Multiyear Sea Ice Coverage and the Likely Causes. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 145-151.	3.3	166
9	The Arctic Circumpolar Boundary Current. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
10	Long-Term Ice Variability in Arctic Marginal Seas. <i>Journal of Climate</i> , 2003, 16, 2078-2085.	3.2	116
11	Toward a warmer Arctic Ocean: Spreading of the early 21st century Atlantic Water warm anomaly along the Eurasian Basin margins. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	106
12	Warming of the Intermediate Atlantic Water of the Arctic Ocean in the 2000s. <i>Journal of Climate</i> , 2012, 25, 8362-8370.	3.2	103
13	Physical manifestations and ecological implications of Arctic Atlantification. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 874-889.	29.7	86
14	North Atlantic warming: patterns of long-term trend and multidecadal variability. <i>Climate Dynamics</i> , 2010, 34, 439-457.	3.8	83
15	Weakening of Cold Halocline Layer Exposes Sea Ice to Oceanic Heat in the Eastern Arctic Ocean. <i>Journal of Climate</i> , 2020, 33, 8107-8123.	3.2	82
16	Fate of Early 2000s Arctic Warm Water Pulse. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 561-566.	3.3	81
17	The Laptev Sea as a source for recent Arctic Ocean salinity changes. <i>Geophysical Research Letters</i> , 2001, 28, 2017-2020.	4.0	71
18	Recent oceanic changes in the Arctic in the context of long-term observations. <i>Ecological Applications</i> , 2013, 23, 1745-1764.	3.8	63

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19	Mooring-Based Observations of Double-Diffusive Staircases over the Laptev Sea Slope*. Journal of Physical Oceanography, 2012, 42, 95-109.	1.7	62
20	Seasonal variability in Atlantic Water off Spitsbergen. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1-14.	1.4	59
21	Structure and variability of the boundary current in the Eurasian Basin of the Arctic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 101, 80-97.	1.4	59
22	Intermittent Intense Turbulent Mixing under Ice in the Laptev Sea Continental Shelf. Journal of Physical Oceanography, 2011, 41, 531-547.	1.7	58
23	Stability of the arctic halocline: a new indicator of arctic climate change. Environmental Research Letters, 2018, 13, 125008.	5.2	55
24	Kara Sea freshwater transport through Vilkitsky Strait: Variability, forcing, and further pathways toward the western Arctic Ocean from a model and observations. Journal of Geophysical Research: Oceans, 2015, 120, 4925-4944.	2.6	52
25	Winter Convection Transports Atlantic Water Heat to the Surface Layer in the Eastern Arctic Ocean*. Journal of Physical Oceanography, 2013, 43, 2142-2155.	1.7	51
26	Changing relationship between the North Atlantic Oscillation and key North Atlantic climate parameters. Geophysical Research Letters, 2006, 33, .	4.0	50
27	Increasing riverine heat influx triggers Arctic sea ice decline and oceanic and atmospheric warming. Science Advances, 2020, 6, .	10.3	47
28	Tracer-derived freshwater composition of the Siberian continental shelf and slope following the extreme Arctic summer of 2007. Geophysical Research Letters, 2009, 36, .	4.0	42
29	The Pan-Arctic Continental Slope: Sharp Gradients of Physical Processes Affect Pelagic and Benthic Ecosystems. Frontiers in Marine Science, 2020, 7, .	2.5	37
30	Seasonal modification of the Arctic Ocean intermediate water layer off the eastern Laptev Sea continental shelf break. Journal of Geophysical Research, 2009, 114, .	3.3	36
31	Discrepancy in the Identification of the Atlantic/Pacific Front in the Central Arctic Ocean: NO Versus Nutrient Relationships. Geophysical Research Letters, 2019, 46, 3843-3852.	4.0	35
32	Aerosol-driven increase in Arctic sea ice over the middle of the twentieth century. Geophysical Research Letters, 2017, 44, 7338-7346.	4.0	32
33	Intensification of Near-Surface Currents and Shear in the Eastern Arctic Ocean. Geophysical Research Letters, 2020, 47, e2020GL089469.	4.0	32
34	Arctic Ocean variability derived from historical observations. Geophysical Research Letters, 2003, 30, .	4.0	29
35	Thermohaline structure and variability in the eastern Nansen Basin as seen from historical data. Journal of Marine Research, 2007, 65, 685-714.	0.3	27
36	Heat, salt, and volume transports in the eastern Eurasian Basin of the Arctic Ocean from 2 years of mooring observations. Ocean Science, 2018, 14, 1349-1371.	3.4	22

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37	Structure and dynamics of mesoscale eddies over the Laptev Sea continental slope in the Arctic Ocean. <i>Ocean Science</i> , 2018, 14, 1329-1347.	3.4	22
38	Eastern Arctic Ocean Diapycnal Heat Fluxes through Large Double-Diffusive Steps. <i>Journal of Physical Oceanography</i> , 2019, 49, 227-246.	1.7	22
39	Interannual variability in Transpolar Drift summer sea ice thickness and potential impact of Atlantification. <i>Cryosphere</i> , 2021, 15, 2575-2591.	3.9	21
40	On the Seasonal Cycles Observed at the Continental Slope of the Eastern Eurasian Basin of the Arctic Ocean. <i>Journal of Physical Oceanography</i> , 2018, 48, 1451-1470.	1.7	19
41	Structure of the Fram Strait branch of the boundary current in the Eurasian Basin of the Arctic Ocean. <i>Polar Science</i> , 2013, 7, 53-71.	1.2	16
42	A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	14
43	Arctic tidal current atlas. <i>Scientific Data</i> , 2020, 7, 275.	5.3	14
44	On the Along-Slope Heat Loss of the Boundary Current in the Eastern Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016375.	2.6	12
45	Combining physical and geochemical methods to investigate lower halocline water formation and modification along the Siberian continental slope. <i>Ocean Science</i> , 2017, 13, 983-995.	3.4	10
46	A long-term circulation and water mass monitoring program for the Arctic Ocean. <i>Eos</i> , 2003, 84, 281.	0.1	8
47	North Atlantic variability driven by stochastic forcing in a simple model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2012, 64, 18695.	1.7	6
48	Restoring and flux adjustment in simulating variability of an idealized ocean. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	5
49	Climate Change Fosters Competing Effects of Dynamics and Thermodynamics in Seasonal Predictability of Arctic Sea Ice. <i>Journal of Climate</i> , 2022, 35, 2849-2865.	3.2	2
50	Understanding Arctic Ocean Processes Under Changing Ice Cover. <i>Eos</i> , 2014, 95, 316-317.	0.1	0