

# Yasushi Fukamachi

## List of Publications by Year in descending order

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70  
papers

2,056  
citations

257450

24  
h-index

254184

43  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antarctic Bottom Water production by intense sea-ice formation in the Cape Darnley polynya. <i>Nature Geoscience</i> , 2013, 6, 235-240.	12.9	246
2	Near-surface circulation and tidal currents of the Okhotsk Sea observed with satellite-tracked drifters. <i>Journal of Geophysical Research</i> , 2002, 107, 16-1.	3.3	150
3	The suppression of Antarctic bottom water formation by melting ice shelves in Prydz Bay. <i>Nature Communications</i> , 2016, 7, 12577.	12.8	124
4	A numerical investigation of jets and eddies near an eastern ocean boundary. <i>Journal of Geophysical Research</i> , 1991, 96, 2515-2534.	3.3	88
5	Structure and Seasonal Variability of the East Sakhalin Current. <i>Journal of Physical Oceanography</i> , 2003, 33, 2430-2445.	1.7	83
6	Thickness and production of sea ice in the Okhotsk Sea coastal polynyas from AMSR-2. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	79
7	Upwelling of Macronutrients and Dissolved Inorganic Carbon by a Subglacial Freshwater Driven Plume in Bowdoin Fjord, Northwestern Greenland. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2018, 123, 1666-1682.	3.0	70
8	Strong export of Antarctic Bottom Water east of the Kerguelen plateau. <i>Nature Geoscience</i> , 2010, 3, 327-331.	12.9	60
9	Sverdrup Balance and the Cyclonic Gyre in the Sea of Okhotsk. <i>Journal of Physical Oceanography</i> , 2004, 34, 513-525.	1.7	54
10	Biogenic and lithogenic particle fluxes in the western region of the Sea of Okhotsk: Implications for lateral material transport and biological productivity. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	53
11	Transport and modification processes of dense shelf water revealed by long-term moorings off Sakhalin in the Sea of Okhotsk. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	48
12	Observation of the Soya Warm Current using HF ocean radar. <i>Journal of Oceanography</i> , 2006, 62, 47-61.	1.7	48
13	Water properties, heat and volume fluxes of Pacific water in Barrow Canyon during summer 2010. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 102, 43-54.	1.4	43
14	Antarctic Bottom Water production from the Vincennes Bay Polynya, East Antarctica. <i>Geophysical Research Letters</i> , 2014, 41, 3528-3534.	4.0	41
15	Seasonal variability of bottom water properties off Ad�lie Land, Antarctica. <i>Journal of Geophysical Research</i> , 2000, 105, 6531-6540.	3.3	37
16	Title is missing!. <i>Journal of Oceanography</i> , 2001, 57, 451-460.	1.7	37
17	Instability of density fronts in layer and continuously stratified models. <i>Journal of Geophysical Research</i> , 1995, 100, 2559.	3.3	36
18	Volume transport of the Soya Warm Current revealed by bottom-mounted ADCP and ocean-radar measurement. <i>Journal of Oceanography</i> , 2008, 64, 385-392.	1.7	36

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19	Direct observations of sea-ice thickness and brine rejection off Sakhalin in the Sea of Okhotsk. <i>Continental Shelf Research</i> , 2009, 29, 1541-1548.	1.8	36
20	Coastal landfast sea ice decay and breakup in northern Alaska: Key processes and seasonal prediction. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
21	Sea ice thickness in the southwestern Sea of Okhotsk revealed by a moored ice-profiling sonar. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
22	A Numerical Investigation of Formation and Variability of Antarctic Bottom Water off Cape Darnley, East Antarctica. <i>Journal of Physical Oceanography</i> , 2014, 44, 2921-2937.	1.7	28
23	A wind-driven, hybrid latent and sensible heat coastal polynya off Alaska. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 980-997.	2.6	28
24	What drives the southward drift of sea ice in the Sea of Okhotsk?. <i>Progress in Oceanography</i> , 2014, 126, 33-43.	3.2	26
25	Subinertial and seasonal variations in the Soya Warm Current revealed by HF ocean radars, coastal tide gauges, and bottom-mounted ADCP. <i>Journal of Oceanography</i> , 2009, 65, 31-43.	1.7	25
26	Observations of supercooled water and frazil ice formation in an Arctic coastal polynya from moorings and satellite imagery. <i>Annals of Glaciology</i> , 2015, 56, 307-314.	1.4	25
27	Amplification of diurnal tides over Kashevarov Bank in the Sea of Okhotsk and its impact on water mixing and sea ice. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 409-424.	1.4	24
28	Observations of frazil ice formation and upward sediment transport in the Sea of Okhotsk: A possible mechanism of iron supply to sea ice. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 788-802.	2.6	24
29	Volume transport in the Soya Strait during 2006–2008. <i>Journal of Oceanography</i> , 2010, 66, 685-696.	1.7	23
30	Taking a look at both sides of the ice: comparison of ice thickness and drift speed as observed from moored, airborne and shore-based instruments near Barrow, Alaska. <i>Annals of Glaciology</i> , 2015, 56, 363-372.	1.4	23
31	Landfast sea ice breakouts: Stabilizing ice features, oceanic and atmospheric forcing at Barrow, Alaska. <i>Continental Shelf Research</i> , 2016, 126, 50-63.	1.8	22
32	Iron Supply by Subglacial Discharge Into a Fjord Near the Front of a Marine-Terminating Glacier in Northwestern Greenland. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006567.	4.9	22
33	Variability of sea-ice draft off Hokkaido in the Sea of Okhotsk revealed by a moored ice-profiling sonar in winter of 1999. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	21
34	Winter Water Formation in Coastal Polynyas of the Eastern Chukchi Shelf: Pacific and Atlantic Influences. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5688-5705.	2.6	19
35	A nonlinear mechanism for maintaining coastally trapped eastern boundary currents. <i>Journal of Geophysical Research</i> , 1992, 97, 5677-5692.	3.3	18
36	Deriving sea-ice thickness and ice types in the Sea of Okhotsk using dual-frequency airborne SAR (Pi-SAR) data. <i>Annals of Glaciology</i> , 2002, 34, 429-434.	1.4	18

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37	Sea-ice thickness in the coastal northeastern Chukchi Sea from moored ice-profiling sonar. <i>Journal of Glaciology</i> , 2017, 63, 888-898.	2.2	18
38	Favorable Conditions for Suspension Freezing in an Arctic Coastal Polynya. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8701-8719.	2.6	18
39	Enhancement of Sea Ice Drift due to the Dynamical Interaction between Sea Ice and a Coastal Ocean. <i>Journal of Physical Oceanography</i> , 2012, 42, 179-192.	1.7	17
40	Winter mixed layer and its yearly variability under sea ice in the southwestern part of the Sea of Okhotsk. <i>Continental Shelf Research</i> , 2004, 24, 643-657.	1.8	16
41	The variability of the East Sakhalin Current induced by winds over the continental shelf and slope. <i>Journal of Marine Research</i> , 2005, 63, 1017-1039.	0.3	16
42	Deep western boundary current and southern frontal systems of the Antarctic Circumpolar Current southeast of the Kerguelen Plateau. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	15
43	A treatise on frequency spectrum of drift ice velocity. <i>Cold Regions Science and Technology</i> , 2012, 76-77, 83-91.	3.5	15
44	Rapidly changing glaciers, ocean and coastal environments, and their impact on human society in the Qaanaaq region, northwestern Greenland. <i>Polar Science</i> , 2021, 27, 100632.	1.2	15
45	Vertical material flux under seasonal sea ice in the Okhotsk Sea north of Hokkaido, Japan. <i>Polar Science</i> , 2008, 2, 41-54.	1.2	14
46	Diurnal coastal-trapped waves on the eastern shelf of Sakhalin in the Sea of Okhotsk and their modification by sea ice. <i>Continental Shelf Research</i> , 2008, 28, 697-709.	1.8	14
47	The role of turbulent mixing in the modified shelf water overflows that produce Cape Darnley Bottom Water. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 910-922.	2.6	13
48	Year-round observations of sea-ice drift and near-inertial internal waves in the Northwind Abyssal Plain, Arctic Ocean. <i>Polar Science</i> , 2019, 21, 212-223.	1.2	12
49	A Generation Mechanism for Mesoscale Eddies in the Kuril Basin of the Okhotsk Sea: Baroclinic Instability Caused by Enhanced Tidal Mixing. <i>Journal of Oceanography</i> , 2005, 61, 247-260.	1.7	11
50	Evaluation of AMSR-E Thin Ice Thickness Algorithm from a Mooring-Based Observation: How Can the Satellite Observe a Sea Ice Field with Nonuniform Thickness Distribution?. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1623-1641.	1.3	10
51	A method for predicting the occurrence of paralytic shellfish poisoning along the coast of Hokkaido in the Okhotsk Sea in summer. <i>Fisheries Science</i> , 2012, 78, 865-877.	1.6	9
52	Observational evidence of supercooling and frazil ice formation throughout the water column in a coastal polynya in the Sea of Okhotsk. <i>Continental Shelf Research</i> , 2020, 196, 104072.	1.8	8
53	Underwater frazil ice and its suspension depth detected from ADCP backscatter data around sea ice edge in the Sea of Okhotsk. <i>Cold Regions Science and Technology</i> , 2021, 192, 103382.	3.5	8
54	Interannual variability in sea-ice thickness in the pack-ice zone off Holm Bay, East Antarctica. <i>Polar Science</i> , 2016, 10, 43-51.	1.2	7

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55	Subglacial discharge controls seasonal variations in the thermal structure of a glacial lake in Patagonia. <i>Nature Communications</i> , 2021, 12, 6301.	12.8	7
56	A neural network-based method for satellite-based mapping of sediment-laden sea ice in the Arctic. <i>Remote Sensing of Environment</i> , 2022, 270, 112861.	11.0	6
57	Sea-ice drift characteristics revealed by measurement of acoustic Doppler current profiler and ice-profiling sonar off Hokkaido in the Sea of Okhotsk. <i>Annals of Glaciology</i> , 2011, 52, 1-8.	1.4	5
58	Instantaneous sea ice drift speed from TanDEM-X interferometry. <i>Cryosphere</i> , 2019, 13, 1395-1408.	3.9	5
59	Estimation of wind drift current in the Soya Strait. <i>Journal of Oceanography</i> , 2016, 72, 299-311.	1.7	4
60	Surface water mass composition changes captured by cores of Arctic land-fast sea ice. <i>Continental Shelf Research</i> , 2016, 118, 154-164.	1.8	4
61	Sea Ice Observation With Oceanographic HF Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 378-390.	6.3	4
62	Seasonal Evolution of Cape Darnley Bottom Water Revealed by Mooring Measurements. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
63	Status and trends of Arctic Ocean environmental change and its impacts on marine biogeochemistry: Findings from the ArCS project. <i>Polar Science</i> , 2021, 27, 100639.	1.2	2
64	Subinertial Variations in the Soya Warm Current Revealed by HF Ocean Radars, Coastal Tide Gauges, and Bottom-Mounted ADCP. , 2008, , .		1
65	Propagation of subinertial variations in the Soya Warm Current revealed by HF ocean radars. , 2010, , .		1
66	Characteristics of sea ice in the Okhotsk coastal polynyas revealed by satellites, ice-profiling sonar and digital camera observations. <i>Annals of Glaciology</i> , 2011, 52, 133-139.	1.4	1
67	Mesoscale Ice Features in the Summer Marginal Ice Zone Off East Queen Maud Land Observed in NOAA Avhrr Imagery. <i>Antarctic Research Series</i> , 0, , 317-323.	0.2	1
68	Oceanic conditions in the Barrow Coastal Polynya revealed by a 10-year mooring time series. <i>Progress in Oceanography</i> , 2022, 203, 102781.	3.2	1
69	Observation of the Soya Warm Current Combining HF Ocean Radar with Coastal Tide Gauges and Satellite Altimetry. , 2006, , .		0
70	1. Occurrence of blooms of the toxic dinoflagellate <i>Alexandrium tamarense</i> and paralytic shellfish poisoning infestation to scallops in the Okhotsk Sea off Hokkaido. <i>Nippon Suisan Gakkaishi</i> , 2011, 77, 439.	0.1	0