Humio Mitsudera

List of Publications by Year
in descending order

92	2,667	257450 24	197818 49
papers	citations	h-index	g-index

93	93	93	1948
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intrusion of the North Pacific waters into the South China Sea. Journal of Geophysical Research, 2000, 105, 6415-6424.	3.3	290
2	Iron supply to the western subarctic Pacific: Importance of iron export from the Sea of Okhotsk. Journal of Geophysical Research, 2007, 112, .	3.3	200
3	Seasonal and interannual variations of the North Equatorial Current bifurcation in a high-resolution OGCM. Journal of Geophysical Research, 2004, 109, .	3.3	188
4	On the western boundary currents in the Philippine Sea. Journal of Geophysical Research, 1998, 103, 7537-7548.	3.3	153
5	A Climatology of the Circulation and Water Mass Distribution near the Philippine Coast*. Journal of Physical Oceanography, 1999, 29, 1488-1505.	1.7	130
6	On the mechanism of shear flow instabilities. Journal of Fluid Mechanics, 1994, 276, 327-342.	3.4	111
7	Oceanic fronts and jets around Japan: a review. Journal of Oceanography, 2015, 71, 469-497.	1.7	92
8	Three subtropical fronts in the North Pacific: Observational evidence for mode water-induced subsurface frontogenesis. Journal of Geophysical Research, 2006, 111, .	3.3	87
9	Observations of the Subtropical Mode Water Evolution from the Kuroshio Extension System Study. Journal of Physical Oceanography, 2006, 36, 457-473.	1.7	85
10	Structure and Variability of the Kuroshio Current in Tokara Strait*. Journal of Physical Oceanography, 2000, 30, 2257-2276.	1.7	71
11	Subduction of the North Pacific Mode Waters in a Global High-Resolution GCM*. Journal of Physical Oceanography, 2002, 32, 746-763.	1.7	71
12	Response of the Kuroshio Extension to Rossby Waves Associated with the 1970s Climate Regime Shift in a High-Resolution Ocean Model*. Journal of Climate, 2005, 18, 2979-2995.	3.2	64
13	Slowly Varying Solitary Wave Solutions of the Perturbed Kortewegâ€de Vries Equation Revisited. Studies in Applied Mathematics, 1993, 90, 75-86.	2.4	60
14	Anticyclonic eddies and Kuroshio Meander Formation. Geophysical Research Letters, 2001, 28, 2025-2028.	4.0	51
15	On the eddy-Kuroshio interaction: Meander formation process. Journal of Geophysical Research, 2003, 108, .	3.3	43
16	Program Studies the Kuroshio Extension. Eos, 2008, 89, 161-162.	0.1	40
17	A Climatological View of the Kuroshio/Oyashio System East of Japan*. Journal of Physical Oceanography, 2001, 31, 2575-2589.	1.7	37
18	Numerical Study on the Oyashio Water Pathways in the Kuroshioâ€“Oyashio Confluence*. Journal of Physical Oceanography, 2004, 34, 1174-1196.	1.7	37

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19	Mechanisms controlling dissolved iron distribution in the North Pacific: A model study. Journal of Geophysical Research, 2011, 116, .	3.3	36
20	The mechanics of the Tollmien-Schlichting wave. Journal of Fluid Mechanics, 1996, 312, 107-124.	3.4	34
21	Formation regions of Subantarctic Mode Water detected by OFES and Argo profiling floats. Geophysical Research Letters, 2007, 34, .	4.0	33
22	Anticyclonic eddy caused by the Soya Warm Current in an Okhotsk OGCM. Journal of Oceanography, 2007, 63, 379-391.	1.7	30
23	On the eddy-Kuroshio interaction: Evolution of the mesoscale eddy. Journal of Geophysical Research, 2002, 107, 3-1.	3.3	28
24	A preliminary study to understand the transport process for the eggs and larvae of Japanese Pacific walleye pollock Theragra chalcogramma using particle-tracking experiments based on a high-resolution ocean model. Fisheries Science, 2014, 80, 127-138.	1.6	25
25	Monitoring the Kuroshio Extension with Dynamically Constrained Synthesis of the Acoustic Tomography, Satellite Altimeter and in situ Data. Journal of Oceanography, 2003, 59, 751-763.	1.7	24
26	Remotely propagating salinity anomaly varies the source of North Pacific ventilation. Progress in Oceanography, 2014, 126, 80-97.	3.2	24
27	Wind and buoyancy driven intermediate-layer overturning in the Sea of Okhotsk. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1401-1418.	1.4	22
28	Breaking of unsteady lee waves generated by diurnal tides. Geophysical Research Letters, 2010, 37, .	4.0	21
29	Low ocean-floor rises regulate subpolar sea surface temperature by forming baroclinic jets. Nature Communications, 2018, 9, 1190.	12.8	21
30	Observation of internal tides in the East China Sea with an underwater sliding vehicle. Journal of Geophysical Research, 1995, 100, 10801.	3.3	20
31	Thermohaline Structure in the Subarctic North Pacific Simulated in a General Circulation Model*. Journal of Physical Oceanography, 2004, 34, 360-371.	1.7	20
32	â€œHot Spotsâ€•in the climate systemâ€”new developments in the extratropical oceanâ€“atmosphere interaction research: a short review and an introduction. Journal of Oceanography, 2015, 71, 463-467.	1.7	20
33	Numerical experiments of airâ€“ice drag coefficient and its impact on iceâ€“ocean coupled system in the Sea of Okhotsk. Ocean Dynamics, 2010, 60, 377-394.	2.2	18
34	Overturning circulation that ventilates the intermediate layer of the <scp>S</scp>ea of <scp>O</scp>khotsk and the <scp>N</scp>orth <scp>P</scp>acific: The role of salinity advection. Journal of Geophysical Research: Oceans, 2015, 120, 1462-1489.	2.6	18
35	Eady Solitary Waves: A Theory of Type B Cyclogenesis. Journals of the Atmospheric Sciences, 1994, 51, 3137-3154.	1.7	17
36	Chaotic Advection of the Shallow Kuroshio Coastal Waters. Journal of Oceanography, 2002, 58, 627-638.	1.7	17

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37	A series of cyclonic eddies in the Antarctic Divergence off AdÃ©lie Coast. Journal of Geophysical Research, 2007, 112, .	3.3	17
38	The cyclonic circulation in the Australianâ€“Antarctic basin simulated by an eddy-resolving general circulation model. Ocean Dynamics, 2010, 60, 743-757.	2.2	15
39	Submesoscale eddies near the Kuril Straits: Asymmetric generation of clockwise and counterclockwise eddies by barotropic tidal flow. Journal of Geophysical Research, 2012, 117, .	3.3	15
40	Modeling lowâ€level clouds over the Okhotsk Sea in summer: Cloud formation and its effects on the Okhotsk high. Journal of Geophysical Research, 2012, 117, .	3.3	14
41	Multidecadal-Scale Freshening at the Salinity Minimum in the Western Part of North Pacific: Importance of Wind-Driven Cross-Gyre Transport of Subarctic Water to the Subtropical Gyre. Journal of Physical Oceanography, 2015, 45, 988-1008.	1.7	14
42	Hydrographic observations by instrumented marine mammals in the Sea of Okhotsk. Polar Science, 2017, 13, 56-65.	1.2	14
43	Generation of Mesoscale Variability by Resonant Interaction between a Baroclinic Current and Localized Topography. Journal of Physical Oceanography, 1991, 21, 737-765.	1.7	13
44	Equatorial Pacific Subsurface Countercurrents: A Modelâ€“Data Comparison in Stream Coordinates*. Journal of Physical Oceanography, 2002, 32, 1252-1264.	1.7	13
45	Equatorial Pacific subsurface countercurrents in a high-resolution global ocean circulation model. Journal of Geophysical Research, 2005, 110, .	3.3	13
46	Rotating Stratified Barotropic Flow over Topography: Mechanisms of the Cold Belt Formation off the Soya Warm Current along the Northeastern Coast of Hokkaido. Journal of Physical Oceanography, 2011, 41, 2120-2136.	1.7	13
47	Dynamics of a Quasi-Stationary Jet along the Subarctic Front in the North Pacific Ocean (the Western) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	13
48	Simulations of chlorofluorocarbons in and around the Sea of Okhotsk: Effects of tidal mixing and brine rejection on the ventilation. Journal of Geophysical Research, 2011, 116, .	3.3	12
49	Numerical study of winter water formation in the Chukchi Sea: Roles and impacts of coastal polynyas. Journal of Geophysical Research, 2011, 116, .	3.3	12
50	A new climatology of the Okhotsk Sea derived from the FERHRI database. Journal of Oceanography, 2012, 68, 869-886.	1.7	12
51	Dynamics and thermodynamics of the Indian Ocean warm pool in a high-resolution global general circulation model. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 2031-2047.	1.4	11
52	Blocking of the Kuroshio Large Meander by Baroclinic Interaction with the Izu Ridge. Journal of Physical Oceanography, 2006, 36, 2042-2059.	1.7	11
53	Capture and Resonant Forcing of Solitary Waves by the Interaction of a Baroclinic Current with Topography. Journal of Physical Oceanography, 1994, 24, 2217-2244.	1.7	10
54	Simulation of high concentration of iron in dense shelf water in the Okhotsk Sea. Progress in Oceanography, 2014, 126, 194-210.	3.2	10

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55	Cold Water Upwelling Near the Anadyr Strait: Observations and Simulations. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016238.	2.6	10
56	Particle-tracking simulation for the drift/diffusion of spilled oils in the Sea of Okhotsk with a three-dimensional, high-resolution model. Journal of Oceanography, 2013, 69, 413-428.	1.7	9
57	Causes of the Multidecadal-Scale Warming of the Intermediate Water in the Okhotsk Sea and Western Subarctic North Pacific. Journal of Climate, 2015, 28, 714-736.	3.2	9
58	Spatial Distribution and Seasonality of Halocline Structures in the Subarctic North Pacific. Journal of Physical Oceanography, 2020, 50, 95-109.	1.7	9
59	Resonant forcing of coastally trapped waves in a continuously stratified ocean. Pure and Applied Geophysics, 1990, 133, 635-664.	1.9	8
60	Effects of alongâ€shore wind on DSW formation beneath coastal polynyas: Application to the Sea of Okhotsk. Journal of Geophysical Research, 2009, 114, .	3.3	8
61	Effects of bottom friction on continental shelf waves. Continental Shelf Research, 1987, 7, 699-714.	1.8	7
62	Dense shelf water formation process in the Sea of Okhotsk based on an ice-ocean coupled model. Journal of Geophysical Research, 2011, 116, .	3.3	7
63	Tidally modified western boundary current drives interbasin exchange between the Sea of Okhotsk and the North Pacific. Scientific Reports, 2021, 11, 12037.	3.3	7
64	Oceanic fronts and jets around Japan: a review. , 2016, , 1-30.		7
65	Analysis Method for Ocean Acoustic Tomography Data Using Kalman Filter â€“Evaluation by Identical Twin Experimentâ€“. Japanese Journal of Applied Physics, 2001, 40, 3835-3841.	1.5	6
66	Significance of High-Frequency Wind Forcing in Modelling the Kuroshio. Journal of Oceanography, 2005, 61, 539-548.	1.7	6
67	A numerical study of ice-drift divergence by cyclonic wind with a Lagrangian ice model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 789-802.	1.7	6
68	Importance of <scp>E</scp>kman transport and gyre circulation change on seasonal variation of surface dissolved iron in the western subarctic <scp>N</scp>orth <scp>P</scp>acific. Journal of Geophysical Research: Oceans, 2017, 122, 4364-4391.	2.6	6
69	Buoyancy shutdown process for the development of the baroclinic jet structure of the Soya Warm Current during summer. Journal of Oceanography, 2018, 74, 339-350.	1.7	6
70	Effects of Radiative Damping on Resonantly Generated Internal Gravity Waves. Studies in Applied Mathematics, 1991, 84, 183-206.	2.4	5
71	Scale Utilization and Optimization from Wavelet Analysis for Data Assimilation: SUgOiWADAi. Journal of Atmospheric and Oceanic Technology, 2002, 19, 747-758.	1.3	5
72	Formation Mechanism of Huge Coastal Polynyas and Its Application to Okhotsk Northwestern Polynya. Journal of Physical Oceanography, 2010, 40, 2451-2465.	1.7	5

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73	New developments in mode-water research: an introduction. Journal of Oceanography, 2012, 68, 1-3.	1.7	5
74	A Mechanism of Ice-Band Pattern Formation Caused by Resonant Interaction between Sea Ice and Internal Waves: A Theory. Journal of Physical Oceanography, 2016, 46, 583-600.	1.7	5
75	Interannual to decadal variability of phosphate in the Oyashio region: Roles of wind-driven ocean current and tidally induced vertical mixing in the Sea of Okhotsk. Progress in Oceanography, 2021, 197, 102615.	3.2	5
76	Damping of coastal trapped waves due to bottom friction in a baroclinic ocean. Continental Shelf Research, 1988, 8, 113-129.	1.8	4
77	Flux of low salinity water from Aniva Bay (Sakhalin Island) to the southern Okhotsk Sea. Estuarine, Coastal and Shelf Science, 2011, 91, 24-32.	2.1	4
78	Effects of temporal variation in tide-induced vertical mixing in the Kuril Straits on the thermohaline circulation originating in the Okhotsk Sea. Progress in Oceanography, 2014, 126, 135-145.	3.2	4
79	Frictional coastal trapped waves in a two-layered ocean. Journal of Fluid Mechanics, 1989, 198, 453.	3.4	3
80	How does the Amur River discharge flow over the northwestern continental shelf in the Sea of Okhotsk?. Progress in Oceanography, 2014, 126, 8-20.	3.2	3
81	Tracing dense shelf water in the Sea of Okhotsk with an ocean general circulation model. Hydrological Research Letters, 2011, 5, 1-5.	0.5	3
82	Global Distribution and Interannual Variation in the Winter Halocline. Journal of Physical Oceanography, 2022, 52, 665-676.	1.7	3
83	Effects of Friction on a Localized Structure in a Baroclinic Current. Journal of Physical Oceanography, 1993, 23, 2265-2292.	1.7	2
84	Title is missing!. Journal of Oceanography, 2003, 59, 187-200.	1.7	2
85	Subtropical Western Boundary Currents over Slopes Detaching from Coasts with Inshore Pool Regions: An Indication to the Kuroshio Nearshore Path. Journal of Physical Oceanography, 2012, 42, 306-320.	1.7	2
86	Long-Term Trend and Interannual to Decadal Variability in the Sea of Okhotsk. Atmosphere, Earth, Ocean & Space, 2020, , 19-56.	0.5	2
87	Numerical Simulation of Dissolved Iron Production and Transport in the Amur River and the Sea of Okhotsk. Global Environmental Studies, 2012, , 87-105.	0.2	2
88	Surface water pathways in the subtropicalâ€“subarctic frontal zone of the western North Pacific. Progress in Oceanography, 2021, 199, 102691.	3.2	2
89	Mechanism of ice-band pattern formation caused by resonant interaction between sea ice and internal waves in a continuously stratified ocean. Progress in Oceanography, 2021, 190, 102474.	3.2	1
90	Estimation of freshwater discharge from the Kamchatka Peninsula to its surrounding oceans. Journal of Hydrology: Regional Studies, 2021, 36, 100836.	2.4	1

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91	Glacier mass change on the Kamchatka Peninsula, Russia, from 2000 to 2016. Journal of Glaciology, 2023, 69, 237-250.	2.2	1
92	Formation and maintenance mechanisms of a thick snow band along the Okhotsk Sea coast of Hokkaido Island, Japan. Hydrological Research Letters, 2014, 8, 84-89.	0.5	0