

Toru Hirawake

List of Publications by Year in descending order

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84
papers

1,731
citations

304743

22
h-index

345221

36
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86
all docs

86
docs citations

86
times ranked

2182
citing authors

#	ARTICLE	IF	CITATIONS
1	A Consumer's Guide to Satellite Remote Sensing of Multiple Phytoplankton Groups in the Global Ocean. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	115
2	An assessment of phytoplankton primary productivity in the Arctic Ocean from satellite ocean color/in situ chlorophyll <i>a</i> based models. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6508-6541.	2.6	90
3	Some operational uses of satellite remote sensing and marine GIS for sustainable fisheries and aquaculture. <i>ICES Journal of Marine Science</i> , 2011, 68, 687-695.	2.5	73
4	Enhancement/reduction of biological pump depends on ocean circulation in the sea-ice reduction regions of the Arctic Ocean. <i>Journal of Oceanography</i> , 2011, 67, 305-314.	1.7	73
5	Year-to-year changes of the mesozooplankton community in the Chukchi Sea during summers of 1991, 1992 and 2007, 2008. <i>Polar Biology</i> , 2011, 34, 1349-1360.	1.2	67
6	A phytoplankton absorption-based primary productivity model for remote sensing in the Southern Ocean. <i>Polar Biology</i> , 2011, 34, 291-302.	1.2	54
7	Satellite-measured temporal and spatial variability of the Tokachi River plume. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 78, 237-249.	2.1	52
8	Water mass characteristics and their temporal changes in a biological hotspot in the southern Chukchi Sea. <i>Biogeosciences</i> , 2016, 13, 2563-2578.	3.3	52
9	Nutrient supply and biological response to wind-induced mixing, inertial motion, internal waves, and currents in the northern Chukchi Sea. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1975-1992.	2.6	50
10	Interannual variability of dimethylsulfide in air and seawater and its atmospheric oxidation by-products (methanesulfonate and sulfate) at Dumont d'Urville, coastal Antarctica (1999–2003). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
11	Inter-comparison of phytoplankton functional type phenology metrics derived from ocean color algorithms and Earth System Models. <i>Remote Sensing of Environment</i> , 2017, 190, 162-177.	11.0	45
12	Distribution shifts of marine taxa in the Pacific Arctic under contemporary climate changes. <i>Diversity and Distributions</i> , 2018, 24, 1583-1597.	4.1	41
13	Estimating the biodiversity of the East Antarctic shelf and oceanic zone for ecoregionalisation: Example of the ichthyofauna of the CEAMARC (Collaborative East Antarctic Marine Census) CAML surveys. <i>Polar Science</i> , 2010, 4, 115-133.	1.2	39
14	Effects of El Niño–Southern Oscillation events on catches of Bigeye Tuna (<i>Thunnus obesus</i>) in the eastern Indian Ocean off Java. <i>Fishery Bulletin</i> , 2013, 111, 175-188.	0.2	36
15	Strategies of phytoplankton to perform effective photosynthesis in the North Water. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 5049-5061.	1.4	34
16	Satellite remote sensing of primary productivity in the Bering and Chukchi Seas using an absorption-based approach. <i>ICES Journal of Marine Science</i> , 2012, 69, 1194-1204.	2.5	34
17	Possible spreading of toxic <i>Alexandrium tamarens</i> blooms on the Chukchi Sea shelf with the inflow of Pacific summer water due to climatic warming. <i>Harmful Algae</i> , 2017, 61, 80-86.	4.8	31
18	Temporal and spatial patterns in the surface-water biomass of phytoplankton in the North Water. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4947-4958.	1.4	28

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19	Changes in phytoplankton community structure during wind-induced fall bloom on the central Chukchi shelf. <i>Polar Biology</i> , 2018, 41, 1279-1295.	1.2	28
20	Hyperspectral optical discrimination of phytoplankton community structure in Funka Bay and its implications for ocean color remote sensing of diatoms. <i>Remote Sensing of Environment</i> , 2015, 159, 134-151.	11.0	26
21	The conservative behavior of dissolved organic carbon in surface waters of the southern Chukchi Sea, Arctic Ocean, during early summer. <i>Scientific Reports</i> , 2016, 6, 34123.	3.3	25
22	Improvement of an aquaculture site-selection model for Japanese kelp (<i>Saccharinajaponica</i>) in southern Hokkaido, Japan: an application for the impacts of climate events. <i>ICES Journal of Marine Science</i> , 2013, 70, 1460-1470.	2.5	23
23	Spatiotemporal variations in suitable areas for Japanese scallop aquaculture in the Dalian coastal area from 2003 to 2012. <i>Aquaculture</i> , 2014, 422-423, 172-183.	3.5	23
24	Predicting potential fishing zones of Japanese common squid (<i>Todarodes pacificus</i>) using remotely sensed images in coastal waters of south-western Hokkaido, Japan. <i>International Journal of Remote Sensing</i> , 2017, 38, 6129-6146.	2.9	23
25	Eddies revealed by SeaWiFS ocean color images in the Antarctic Divergence zone near 140°E. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	22
26	Size fraction and class composition of phytoplankton in the Antarctic marginal ice zone along the 140°E meridian during February–March 2003. <i>Polar Science</i> , 2008, 2, 109-120.	1.2	22
27	Interannual variability in the magnitude and timing of the spring bloom in the Oyashio region. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1608-1617.	1.4	22
28	Predicting potential fishing zones for Pacific saury (<i>Cololabis saira</i>) with maximum entropy models and remotely sensed data. <i>Fishery Bulletin</i> , 2016, 114, 330-342.	0.2	21
29	Possible future scenarios in the gateways to the Arctic for Subarctic and Arctic marine systems: II. prey resources, food webs, fish, and fisheries. <i>ICES Journal of Marine Science</i> , 2021, 78, 3017-3045.	2.5	19
30	Seasonal Habitat Patterns of Japanese Common Squid (<i>Todarodes Pacificus</i>) Inferred from Satellite-Based Species Distribution Models. <i>Remote Sensing</i> , 2016, 8, 921.	4.0	18
31	Elucidating the potential squid habitat responses in the central North Pacific to the recent ENSO flavors. <i>Hydrobiologia</i> , 2016, 772, 215-227.	2.0	18
32	Multiple facets of marine biodiversity in the Pacific Arctic under future climate. <i>Science of the Total Environment</i> , 2020, 744, 140913.	8.0	18
33	A series of cyclonic eddies in the Antarctic Divergence off Ad�lie Coast. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
34	The regional impacts of climate change on coastal environments and the aquaculture of Japanese scallops in northeast Asia: case studies from Dalian, China, and Funka Bay, Japan. <i>International Journal of Remote Sensing</i> , 2014, 35, 4422-4440.	2.9	17
35	Remote estimation of phytoplankton size fractions using the spectral shape of light absorption. <i>Optics Express</i> , 2015, 23, 10301.	3.4	17
36	Interannual variation of bigeye tuna (<i>Thunnus obesus</i>) hotspots in the eastern Indian Ocean off Java. <i>International Journal of Remote Sensing</i> , 2016, 37, 2087-2100.	2.9	17

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37	Characterization of the Water Masses in the Shelf Region of the Bering and Chukchi Seas With Fluorescent Organic Matter. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7545-7556.	2.6	17
38	Impact of spatiotemporal variability in phytoplankton size structure on benthic macrofaunal distribution in the Pacific Arctic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 162, 114-126.	1.4	17
39	Widespread distribution of allochthonous fluorescent dissolved organic matter in the intermediate water of the North Pacific. <i>Progress in Oceanography</i> , 2021, 191, 102510.	3.2	17
40	Recent change in benthic macrofaunal community composition in relation to physical forcing in the Pacific Arctic. <i>Polar Biology</i> , 2020, 43, 285-294.	1.2	16
41	Detection of Squid and Pacific Saury fishing vessels around Japan using VIIRS Day/Night Band image. <i>Proceedings of the Asia-Pacific Advanced Network</i> , 2015, 39, 28.	0.3	15
42	Changing Occurrences of Fall Blooms Associated With Variations in Phytoplankton Size Structure in the Pacific Arctic. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	15
43	Spatial and geographical changes in the mesozooplankton community in the Bering and Chukchi Seas during the summers of 2007 and 2008. <i>Polar Science</i> , 2016, 10, 335-345.	1.2	13
44	GCOM-C Data Validation Plan for Land, Atmosphere, Ocean, and Cryosphere. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2018, 16, 218-223.	0.2	13
45	A review: iron and nutrient supply in the subarctic Pacific and its impact on phytoplankton production. <i>Journal of Oceanography</i> , 2021, 77, 561-587.	1.7	13
46	Long-term variation of surface phytoplankton chlorophyll in the Southern Ocean during 1965–2002. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	11
47	Phytoplankton community composition and photosynthetic physiology in the Australian sector of the Southern Ocean during the austral summer of 2010/2011. <i>Polar Biology</i> , 2014, 37, 1563-1578.	1.2	11
48	Reproductive success of Pacific copepods in the Arctic Ocean and the possibility of changes in the Arctic ecosystem. <i>Polar Biology</i> , 2015, 38, 1075-1079.	1.2	11
49	Abundance, development stage, and size of decapod larvae through the Bering and Chukchi Seas during summer. <i>Polar Biology</i> , 2017, 40, 1805-1819.	1.2	11
50	Sediment-Associated Phytoplankton Release From the Seafloor in Response to Wind-Induced Barotropic Currents in the Bering Strait. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	10
51	Seasonal phenology of four dominant copepods in the Pacific sector of the Arctic Ocean: Insights from statistical analyses of sediment trap data. <i>Polar Science</i> , 2019, 19, 94-111.	1.2	10
52	Distinctive spring phytoplankton bloom in the Bering Strait in 2018: A year of historically minimum sea ice extent. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 181-182, 104905.	1.4	10
53	Title is missing!. <i>Journal of Oceanography</i> , 2000, 56, 245-260.	1.7	9
54	Implications of marine environment change on Japanese scallop (<i>Mizuhopecten yessoensis</i>) aquaculture suitability: a comparative study in Funka and Mutsu Bays, Japan. <i>Aquaculture Research</i> , 2016, 47, 2164-2182.	1.8	9

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55	Differences in Rate and Direction of Shifts between Phytoplankton Size Structure and Sea Surface Temperature. <i>Remote Sensing</i> , 2017, 9, 222.	4.0	9
56	Water mass distribution in the northern Bering and southern Chukchi seas using light absorption of chromophoric dissolved organic matter. <i>Progress in Oceanography</i> , 2021, 197, 102641.	3.2	9
57	Iron and nutrient dynamics along the East Kamchatka Current, western Bering Sea Basin and Gulf of Anadyr. <i>Progress in Oceanography</i> , 2021, 198, 102662.	3.2	9
58	Light acclimation states of phytoplankton in the Southern Ocean, determined using photosynthetic pigment distribution. <i>Marine Biology</i> , 2010, 157, 2263-2278.	1.5	8
59	An attempt of dissemination of potential fishing zones prediction map of Japanese common squid in the coastal water, southwestern Hokkaido, Japan. <i>Proceedings of the Asia-Pacific Advanced Network</i> , 2013, 36, 132.	0.3	8
60	Impact of Oceanographic Environmental Shifts and Atmospheric Events on the Sustainable Development of Coastal Aquaculture: A Case Study of Kelp and Scallops in Southern Hokkaido, Japan. <i>Sustainability</i> , 2015, 7, 1263-1279.	3.2	8
61	Influence of hydrography on the spatiotemporal variability of phytoplankton assemblages and primary productivity in Funka Bay and the Tsugaru Strait. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 188, 199-211.	2.1	8
62	Evidence of increased toxic <i>Alexandrium tamarense</i> dinoflagellate blooms in the eastern Bering Sea in the summers of 2004 and 2005. <i>PLoS ONE</i> , 2017, 12, e0188565.	2.5	8
63	Impacts of Mesoscale Eddies on Phytoplankton Size Structure. <i>Geophysical Research Letters</i> , 2019, 46, 13191-13198.	4.0	8
64	Effects of phytoplankton community composition and productivity on sea surface pCO ₂ variations in the Southern Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 160, 103263.	1.4	8
65	Response of Arctic biodiversity and ecosystem to environmental changes: Findings from the ArCS project. <i>Polar Science</i> , 2021, 27, 100533.	1.2	8
66	Development of a three-dimensional growth prediction model for the Japanese scallop in Funka Bay, Japan, using OGCM and MODIS. <i>ICES Journal of Marine Science</i> , 2015, 72, 2684-2699.	2.5	7
67	Detection of potential fishing zone for Pacific saury (<i>Cololabis saira</i>) using generalized additive model and remotely sensed data. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 54, 012074.	0.3	7
68	Stratification in the northern Bering Sea in early summer of 2017 and 2018. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 181-182, 104820.	1.4	7
69	Marine biodiversity refugia in a climate-sensitive subarctic shelf. <i>Global Change Biology</i> , 2021, 27, 3299-3311.	9.5	7
70	Observations of anticyclonic eddies in the western subarctic North Pacific. <i>Journal of Oceanography</i> , 2021, 77, 229-242.	1.7	7
71	Saroma-ko Lagoon Observations for sea ice Physico-chemistry and Ecosystems 2019 (SLOPE2019). <i>Bulletin of Glaciological Research</i> , 2020, 38, 1-12.	1.0	7
72	Seasonal pathways of the Tsugaru Warm Current revealed by high-frequency ocean radars. <i>Journal of Oceanography</i> , 2022, 78, 103-119.	1.7	5

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73	Variability in spring phytoplankton blooms associated with ice retreat timing in the Pacific Arctic from 2003–2019. PLoS ONE, 2021, 16, e0261418.	2.5	5
74	Using under-ice hyperspectral transmittance to determine land-fast sea-ice algal biomass in Saroma-ko Lagoon, Hokkaido, Japan. Annals of Glaciology, 2020, 61, 454-463.	1.4	4
75	East-west differences in population structure and vertical distribution of copepods along 47°N in the subarctic Pacific in June 2009. Plankton and Benthos Research, 2013, 8, 116-123.	0.6	4
76	Diatoms contributing to new production in surface waters of the northern Bering and Chukchi Seas during summer with reference to water column stratification. Progress in Oceanography, 2021, 199, 102692.	3.2	3
77	Between-year comparison of interactions between environmental parameters and various plankton stocks in the northern Bering Sea during the summers of 2017 and 2018. Polar Science, 2021, 27, 100555.	1.2	2
78	Salinity regime of the northwestern Bering Sea shelf. Progress in Oceanography, 2021, 198, 102675.	3.2	2
79	A Protocol for Measuring the Absorption Coefficient of Phytoplankton using QFT (Quantitative Filter) Tj ETQq1 1 0.784314 rgBT /Over	0.5	2
80	Performance of primary production algorithm using absorption coefficient of phytoplankton in the Pacific Arctic. Journal of Oceanography, 2022, 78, 311-335.	1.7	1
81	<title>In-water algorithms for estimation of chlorophyll a and primary production in the Arabian Sea and the eastern Indian Ocean</title>. , 1997, , .		0
82	Estimation of ocean primary production from satellite remote sensing. Oceanography in Japan, 2017, 26, 65-77.	0.5	0
83	Influences of size structure and post-bloom supply of phytoplankton on body size variations in a common Pacific Arctic bivalve (Macoma calcaria). Polar Science, 2021, 27, 100554.	1.2	0
84	Measurement of the Absorption Coefficient of Seawater. Review.. Oceanography in Japan, 2001, 10, 537-559.	0.5	0