

Yasuhiro Yamanaka

List of Publications by Year in descending order

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128
papers

9,027
citations

101543

36
h-index

43889

91
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131
all docs

131
docs citations

131
times ranked

9390
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. <i>Nature</i> , 2005, 437, 681-686.	27.8	3,772
2	A comparison of global estimates of marine primary production from ocean color. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 741-770.	1.4	574
3	Synoptic relationships between surface Chlorophyll- <i>a</i> and diagnostic pigments specific to phytoplankton functional types. <i>Biogeosciences</i> , 2011, 8, 311-327.	3.3	298
4	NEMURO's a lower trophic level model for the North Pacific marine ecosystem. <i>Ecological Modelling</i> , 2007, 202, 12-25.	2.5	293
5	Projected impacts of climate change on marine fish and fisheries. <i>ICES Journal of Marine Science</i> , 2013, 70, 1023-1037.	2.5	230
6	Impact of circulation on export production, dissolved organic matter, and dissolved oxygen in the ocean: Results from Phase II of the Ocean Carbon Cycle Model Intercomparison Project (OCMIP2). <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	211
7	Evaluating global ocean carbon models: The importance of realistic physics. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	210
8	Evaluation of ocean model ventilation with CFC-11: comparison of 13 global ocean models. <i>Ocean Modelling</i> , 2002, 4, 89-120.	2.4	192
9	The role of the vertical fluxes of particulate organic matter and calcite in the oceanic carbon cycle: Studies using an ocean biogeochemical general circulation model. <i>Global Biogeochemical Cycles</i> , 1996, 10, 361-382.	4.9	188
10	Evaluation of ocean carbon cycle models with data-based metrics. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	168
11	Optimal uptake kinetics: physiological acclimation explains the pattern of nitrate uptake by phytoplankton in the ocean. <i>Marine Ecology - Progress Series</i> , 2009, 384, 1-12.	1.9	123
12	Role of nitrification and denitrification on the nitrous oxide cycle in the eastern tropical North Pacific and Gulf of California. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	110
13	Ocean currents and herbivory drive macroalgae-to-coral community shift under climate warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8990-8995.	7.1	105
14	An ecological-physical coupled model applied to Station Papa. <i>Journal of Oceanography</i> , 1995, 51, 635-664.	1.7	98
15	The role of ocean transport in the uptake of anthropogenic CO ₂ . <i>Biogeosciences</i> , 2009, 6, 375-390.	3.3	93
16	Climate forcing and the Kuroshio/Oyashio ecosystem. <i>ICES Journal of Marine Science</i> , 2013, 70, 922-933.	2.5	81
17	Role of dissolved organic matter in the marine biogeochemical cycle: Studies using an ocean biogeochemical general circulation model. <i>Global Biogeochemical Cycles</i> , 1997, 11, 599-612.	4.9	77
18	Comparing food web structures and dynamics across a suite of global marine ecosystem models. <i>Ecological Modelling</i> , 2013, 261-262, 43-57.	2.5	71

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19	Initial design for a fish bioenergetics model of Pacific saury coupled to a lower trophic ecosystem model. <i>Fisheries Oceanography</i> , 2004, 13, 111-124.	1.7	69
20	Phytoplankton competition during the spring bloom in four plankton functional type models. <i>Biogeosciences</i> , 2013, 10, 6833-6850.	3.3	68
21	A simulation model for Japanese sardine (<i>Sardinops melanostictus</i>) migrations in the western North Pacific. <i>Ecological Modelling</i> , 2009, 220, 462-479.	2.5	61
22	An Ecosystem Model Coupled with Nitrogen-Silicon-Carbon Cycles Applied to Station A7 in the Northwestern Pacific. <i>Journal of Oceanography</i> , 2004, 60, 227-241.	1.7	57
23	Global deep ocean oxygenation by enhanced ventilation in the Southern Ocean under long-term global warming. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1801-1815.	4.9	53
24	A one-dimensional ecosystem model applied to time-series Station KNOT. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 5441-5461.	1.4	50
25	Interdecadal variation of the lower trophic ecosystem in the northern Pacific between 1948 and 2002, in a 3-D implementation of the NEMURO model. <i>Ecological Modelling</i> , 2007, 202, 81-94.	2.5	49
26	Ocean acidification limits temperature-induced poleward expansion of coral habitats around Japan. <i>Biogeosciences</i> , 2012, 9, 4955-4968.	3.3	49
27	Impact of rapid sea-ice reduction in the Arctic Ocean on the rate of ocean acidification. <i>Biogeosciences</i> , 2012, 9, 2365-2375.	3.3	48
28	Ecosystem change in the western North Pacific associated with global warming using 3D-NEMURO. <i>Ecological Modelling</i> , 2007, 202, 95-104.	2.5	47
29	Evaluation of OCMIP-2 ocean models' deep circulation with mantle helium-3. <i>Journal of Marine Systems</i> , 2004, 48, 15-36.	2.1	46
30	Evaluating core competencies development in sustainability and environmental master's programs: An empirical analysis. <i>Journal of Cleaner Production</i> , 2018, 181, 829-841.	9.3	46
31	Simulated herring growth responses in the Northeastern Pacific to historic temperature and zooplankton conditions generated by the 3-dimensional NEMURO nutrient-phytoplankton-zooplankton model. <i>Ecological Modelling</i> , 2007, 202, 184-195.	2.5	45
32	A modeling approach to evaluate growth and movement for recruitment success of Japanese sardine (<i>Sardinops melanostictus</i>) in the western Pacific. <i>Fisheries Oceanography</i> , 2012, 21, 44-57.	1.7	44
33	Knowledge sharing between academic researchers and tourism practitioners: a Japanese study of the practical value of embeddedness, trust and co-creation. <i>Journal of Sustainable Tourism</i> , 2017, 25, 1456-1473.	9.2	44
34	One Dimensional Ecosystem Model Simulation of the Effects of Vertical Dilution by the Winter Mixing on the Spring Diatom Bloom. <i>Journal of Oceanography</i> , 2003, 59, 563-571.	1.7	43
35	On the interannual variability of the growth of Pacific saury (<i>Cololabis saira</i>): A simple 3-box model using NEMURO.FISH. <i>Ecological Modelling</i> , 2007, 202, 174-183.	2.5	40
36	Geographical distribution of the feedback between future climate change and the carbon cycle. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	37

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37	Study on vertical profiles of rare earth elements by using an ocean general circulation model. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	37
38	Effects of ontogenetic vertical migration of zooplankton on annual primary production - using NEMURO embedded in a general circulation model. <i>Fisheries Oceanography</i> , 2003, 12, 284-290.	1.7	36
39	Adaptation pathways of global wheat production: Importance of strategic adaptation to climate change. <i>Scientific Reports</i> , 2015, 5, 14312.	3.3	36
40	Optimization-based model of multnutrient uptake kinetics. <i>Limnology and Oceanography</i> , 2007, 52, 1545-1558.	3.1	35
41	Chlorofluorocarbons in a global ocean eddy-resolving OGCM: Pathway and formation of Antarctic Bottom Water. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	34
42	Simulated biogeochemical responses to iron enrichments in three high nutrient, low chlorophyll (HNLC) regions. <i>Progress in Oceanography</i> , 2005, 64, 307-324.	3.2	34
43	An Ecosystem Model Including Nitrogen Isotopes: Perspectives on a Study of the Marine Nitrogen Cycle. <i>Journal of Oceanography</i> , 2005, 61, 921-942.	1.7	33
44	Parameter sensitivity study of the NEMURO lower trophic level marine ecosystem model. <i>Ecological Modelling</i> , 2007, 202, 26-37.	2.5	33
45	North Pacific basin-scale differences in lower and higher trophic level marine ecosystem responses to climate impacts using a nutrient-phytoplankton-zooplankton model coupled to a fish bioenergetics model. <i>Ecological Modelling</i> , 2007, 202, 196-210.	2.5	33
46	Responses of marine ecosystem to typhoon passages in the western subtropical North Pacific. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	32
47	Development of a one-dimensional ecosystem model including the iron cycle applied to the Oyashio region, western subarctic Pacific. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
48	Projecting the impacts of rising seawater temperatures on the distribution of seaweeds around Japan under multiple climate change scenarios. <i>Ecology and Evolution</i> , 2015, 5, 213-223.	1.9	32
49	Impacts of climate change on growth, migration and recruitment success of Japanese sardine (<i>Sardinops melanostictus</i>) in the western North Pacific. <i>Climatic Change</i> , 2012, 115, 485-503.	3.6	31
50	Influences of physical processes on the ecosystem of Jakarta Bay: a coupled physical-ecosystem model experiment. <i>ICES Journal of Marine Science</i> , 2009, 66, 336-348.	2.5	30
51	Seasonal and regional variations of phytoplankton groups by top-down and bottom-up controls obtained by a 3D ecosystem model. <i>Ecological Modelling</i> , 2007, 202, 68-80.	2.5	29
52	Potential impact of global warming on North Pacific spring blooms projected by an eddy-permitting 3D ocean ecosystem model. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	28
53	Projection and uncertainty of the poleward range expansion of coral habitats in response to sea surface temperature warming: A multiple climate model study. <i>Galaxea</i> , 2011, 13, 11-20.	0.7	28
54	Effect of temperature-dependent organic carbon decay on atmospheric pCO ₂ . <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	27

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55	Comparison of seasonal characteristics in biogeochemistry among the subarctic North Pacific stations described with a NEMURO-based marine ecosystem model. <i>Ecological Modelling</i> , 2007, 202, 52-67.	2.5	24
56	Ocean oxygen depletion due to decomposition of submarine methane hydrate. <i>Geophysical Research Letters</i> , 2014, 41, 5075-5083.	4.0	23
57	A Global Eddy-Resolving Coupled Physical-Biological Model: Physical Influences on a Marine Ecosystem in the North Pacific. <i>Simulation</i> , 2006, 82, 467-474.	1.8	22
58	Modeling of methane bubbles released from large sea-floor area: Condition required for methane emission to the atmosphere. <i>Earth and Planetary Science Letters</i> , 2009, 284, 590-598.	4.4	22
59	Quantitative comparison of photoacclimation models for marine phytoplankton. <i>Ecological Modelling</i> , 2007, 201, 547-552.	2.5	21
60	Compound effects of Antarctic sea ice on atmospheric CO_2 change during glacial-interglacial cycle. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	20
61	Effect of eddy transport on the nutrient supply into the euphotic zone simulated in an eddy-permitting ocean ecosystem model. <i>Journal of Marine Systems</i> , 2010, 83, 67-87.	2.1	20
62	A comparison between phytoplankton community structures derived from a global 3D ecosystem model and satellite observation. <i>Journal of Marine Systems</i> , 2013, 109-110, 129-137.	2.1	19
63	One possible uncertainty in CMIP5 projections of low-oxygen water volume in the Eastern Tropical Pacific. <i>Global Biogeochemical Cycles</i> , 2017, 31, 804-820.	4.9	19
64	Long-term response of oceanic carbon uptake to global warming via physical and biological pumps. <i>Biogeosciences</i> , 2018, 15, 4163-4180.	3.3	19
65	Photoacclimation by phytoplankton determines the distribution of global subsurface chlorophyll maxima in the ocean. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	19
66	Ocean ecosystem responses to future global change scenarios: a way forward. , 2010, , 287-322.		19
67	Nitrate-nitrogen isotopic patterns in surface waters of the western and central equatorial pacific. <i>Journal of Oceanography</i> , 2006, 62, 511-525.	1.7	18
68	Unionoid mussels as an indicator of fish communities: A conceptual framework and empirical evidence. <i>Ecological Indicators</i> , 2013, 24, 127-137.	6.3	18
69	Ecosystem changes after the SEEDS iron fertilization in the western North Pacific simulated by a one-dimensional ecosystem model. <i>Progress in Oceanography</i> , 2005, 64, 283-306.	3.2	17
70	Numerical simulation of atmospheric and oceanic biogeochemical cycles to an episodic CO2 release event: Implications for the cause of mid-Cretaceous Ocean Anoxic Event-1a. <i>Earth and Planetary Science Letters</i> , 2009, 286, 316-323.	4.4	17
71	An improved estimation of the poleward expansion of coral habitats based on the inter-annual variation of sea surface temperatures. <i>Coral Reefs</i> , 2015, 34, 1125-1137.	2.2	17
72	Attempting Consistent Simulations of Stn. ALOHA with a Multi-Element Ecosystem Model. <i>Journal of Oceanography</i> , 2005, 61, 1-23.	1.7	16

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73	Fe/Al ratios of suspended particulate matter from intermediate water in the Okhotsk Sea: Implications for long-distance lateral transport of particulate Fe. <i>Marine Chemistry</i> , 2013, 157, 41-48.	2.3	16
74	A Comparison of Simulated Particle Fluxes Using NEMURO and Other Ecosystem Models in the Western North Pacific. <i>Journal of Oceanography</i> , 2004, 60, 63-73.	1.7	14
75	Using altimetry to help explain patchy changes in hydrographic carbon measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
76	Projected effects of global warming on coral reefs in seas close to Japan. <i>Journal of the Japanese Coral Reef Society</i> , 2009, 11, 131-140.	0.1	14
77	Marine ecosystem simulation in the eastern tropical Pacific with a global eddy resolving coupled physical–biological model. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	12
78	Projected coral bleaching in response to future sea surface temperature rises and the uncertainties among climate models. <i>Hydrobiologia</i> , 2014, 733, 19-29.	2.0	12
79	A Trans-Graduate-School Education Program Awakening Competencies to Graduate Students in Research University: The Concept of Nitobe School Program in Hokkaido University. , 2016, , .		12
80	Ocean anoxic events in the mid-Cretaceous simulated by a 3-D biogeochemical general circulation model. <i>Cretaceous Research</i> , 2008, 29, 893-900.	1.4	11
81	Effects of storms on primary productivity and air-sea CO ₂ exchange in the subarctic western North Pacific: a modeling study. <i>Biogeosciences</i> , 2008, 5, 1189-1197.	3.3	10
82	Nurturing Problem-Finding Skills in Graduate Students through Problem Based Learning Approaches. , 2016, , .		10
83	Discussion on a Method of Team-Based-Learning Style Lecture for Graduate Students in a Research University. , 2016, , .		10
84	Competition and community assemblage dynamics within a phytoplankton functional group: Simulation using an eddy-resolving model to disentangle deterministic and random effects. <i>Ecological Modelling</i> , 2017, 343, 1-14.	2.5	10
85	Modeling studies investigating the causes of preferential depletion of silicic acid relative to nitrate during SERIES, a mesoscale iron enrichment in the NE subarctic Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2297-2326.	1.4	9
86	Habitat-forming seaweeds in Japan (fucoids and temperate kelps). <i>Ecological Research</i> , 2016, 31, 759-759.	1.5	9
87	Examining the regeneration of nitrogen by assimilating data from incubations into a multi-element ecosystem model. <i>Journal of Marine Systems</i> , 2007, 64, 135-152.	2.1	8
88	Influence of export rain ratio changes on atmospheric CO ₂ and sedimentary calcite preservation. <i>Journal of Oceanography</i> , 2009, 65, 209-221.	1.7	8
89	Comparison of Two Classical Advection Schemes in a General Circulation Model. <i>Journal of Physical Oceanography</i> , 2000, 30, 2439-2451.	1.7	7
90	Role of Eddies in Chlorofluorocarbon Transport in Wind-Driven Oceanic Layers. <i>Journal of Physical Oceanography</i> , 2007, 37, 2491-2508.	1.7	7

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91	Effects of physical changes in the ocean on the atmospheric pCO ₂ : glacial-interglacial cycles. <i>Climate Dynamics</i> , 2010, 35, 713-719.	3.8	7
92	How Does the English Ability of the Student Change through the Postgraduate Education? ~ The Case Report of "Nitobe School Program" in Hokkaido University, , 2016, , .		7
93	Roles of Biogeochemical Processes in the Oceanic Carbon Cycle Described with a Simple Coupled Physical-Biogeochemical Model. <i>Journal of Oceanography</i> , 2005, 61, 803-815.	1.7	6
94	O ₂ consumption rate and its isotopic fractionation factor in the deep water of the Philippine Sea. <i>Journal of Oceanography</i> , 2008, 64, 451-457.	1.7	6
95	Site selection in CO ₂ ocean sequestration: Dependence of CO ₂ injection rate on eddy activity distribution. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 67-76.	4.6	6
96	Physiological acclimation by phytoplankton explains observed changes in Si and N uptake rates during the SERIES iron-enrichment experiment. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 394-408.	1.4	6
97	Biological data assimilation for parameter estimation of a phytoplankton functional type model for the western North Pacific. <i>Ocean Science</i> , 2018, 14, 371-386.	3.4	6
98	Effects of presence of a circumpolar region on buoyancy-driven circulation. <i>Journal of Oceanography</i> , 1994, 50, 247-263.	1.7	5
99	Processes Causing the Temporal Changes in Si/N Ratios of Nutrient Consumptions and Export Flux during the Spring Diatom Bloom. <i>Journal of Oceanography</i> , 2005, 61, 1059-1073.	1.7	5
100	A numerical study with an eddy-resolving model to evaluate chronic impacts in CO ₂ ocean sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 89-94.	4.6	5
101	Potential use of the N ₂ /Ar ratio as a constraint on the oceanic fixed nitrogen loss. <i>Global Biogeochemical Cycles</i> , 2016, 30, 576-594.	4.9	5
102	Utilization of the Student E-Portfolio in the Graduate Education: The Case Report of "Nitobe School Program" in Hokkaido University. , 2017, , .		5
103	Roles of Physical Processes in the Carbon Cycle Using a Simplified Physical Model. <i>Journal of Oceanography</i> , 2000, 56, 655-666.	1.7	4
104	Sedimentary Responses to an Abrupt Change of Biogenic Silica Flux by a Sediment Model for Long Timescale Simulations. <i>Journal of Oceanography</i> , 2005, 61, 733-746.	1.7	4
105	Along-coast shifts of plankton blooms driven by riverine inputs of nutrients and fresh water onto the coastal shelf: a model simulation. <i>Journal of Oceanography</i> , 2013, 69, 753-767.	1.7	4
106	The potential value of research-based evidence in destination management: the case of Kamikawa, Japan. <i>Tourism Review</i> , 2019, 74, 166-178.	6.4	4
107	Sensitivity of cool summer-induced sterility of rice to increased growing-season temperatures: A case study in Hokkaido, Japan. <i>J Agricultural Meteorology</i> , 2014, 70, 25-40.	1.5	4
108	Simulation of the effects of bottom topography on net primary production induced by riverine input. <i>Continental Shelf Research</i> , 2016, 117, 20-29.	1.8	3

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109	Arrival briefings as an effective interpretation strategy in tourist destinations: The case of Daisetsuzan National Park, Japan. <i>Journal of Outdoor Recreation and Tourism</i> , 2021, 33, 100363.	2.9	3
110	Potential Future Coral Habitats Around Japan Depend Strongly on Anthropogenic CO2 Emissions. Structure and Function of Mountain Ecosystems in Japan, 2016, , 41-56.	0.5	3
111	Relationship between sinking organic matter and minerals in the shallow zone of the western Subarctic Pacific. <i>Journal of Oceanography</i> , 2010, 66, 697-708.	1.7	2
112	Seasonal characteristics of the nitrogen isotope biogeochemistry of settling particles in the western subarctic Pacific: A model study. <i>Earth and Planetary Science Letters</i> , 2010, 293, 180-190.	4.4	2
113	Effect of seasonal change in gas transfer coefficient on air-sea CO2 flux in the western North Pacific. <i>Journal of Oceanography</i> , 2015, 71, 685-701.	1.7	2
114	What is the Most Suitable English Test for the Graduate School Students in Research University in Japan?. , 2017, , .		2
115	Inhibition of competitive exclusion due to phytoplankton dispersion: a contribution for solving Hutchinson's paradox. <i>Ecological Modelling</i> , 2020, 430, 109089.	2.5	2
116	A lagrangian method combined with high-resolution ocean general circulation model to evaluate CO2 ocean sequestration. , 2005, , 819-827.		2
117	Optimization of the horizontal shape of CO2 injected domain and the depths of release in moving-ship type CO2 ocean sequestration. <i>Journal of Marine Science and Technology</i> , 2013, 18, 220-228.	2.9	1
118	What is the Most Suitable Transferable Skill Test for the Graduate School Students in Research University in Japan?. , 2018, , .		1
119	Understanding Nature through Photography: An Empirical Analysis of the Intents of Nature Photographers and the Preparatory Process. <i>Environmental Communication</i> , 2019, 13, 1053-1068.	2.5	1
120	Geoscientists' Perceptions of Research and its Evaluation: Questionnaire Survey Results from the Members of American Geophysical Union. , 2021, , .		1
121	Simulation of 50 Mton CO ₂ injection per year into the ocean using an ocean general circulation model. , 2008, , .		0
122	Correction to "Using altimetry to help explain patchy changes in hydrographic carbon measurements". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	0
123	How Should We Make Assessment of Graduate Educational Outcomes? Case Study from the Requirements of Research and Educational Funding Project in Japan. , 2015, , .		0
124	IR Survey Using Education Support System in Research University. , 2017, , .		0
125	The Role of Mentors to Develop Graduate Students' Transferable Skills. , 2019, , .		0
126	Improvement of Three Days Course with Student Surveys using Google® Forms - A Case Study of "Introduction to Environmental Science" in Hokkaido University. , 2019, , .		0

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127	An empirical analysis of the driving status for elderly people using the survey for "Insured Long-Term Care Service Plans", 2020, 55, 631-636.		0
128	Scientists prefer research answering humanity's intellectual curiosity: questionnaire results from Members of the Japan Geoscience Union. , 2021, , .		0