

Hiroshi Sumata

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

512
citations

567281

15
h-index

752698

20
g-index

33
all docs

33
docs citations

33
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	An intercomparison of <sc>Arctic</sc> ice drift products to deduce uncertainty estimates. Journal of Geophysical Research: Oceans, 2014, 119, 4887-4921.	2.6	101
2	Uncertainty of <sc>Arctic</sc> summer ice drift assessed by high-resolution SAR data. Journal of Geophysical Research: Oceans, 2015, 120, 5285-5301.	2.6	39
3	UDASH " Unified Database for Arctic and Subarctic Hydrography. Earth System Science Data, 2018, 10, 1119-1138.	9.9	34
4	Development of a one-dimensional ecosystem model including the iron cycle applied to the Oyashio region, western subarctic Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	32
5	Impacts of climate change on growth, migration and recruitment success of Japanese sardine (Sardinops melanostictus) in the western North Pacific. Climatic Change, 2012, 115, 485-503.	3.6	31
6	Empirical error functions for monthly mean Arctic sea ice drift. Journal of Geophysical Research: Oceans, 2015, 120, 7450-7475.	2.6	29
7	North Pacific halocline and cold climate induced by Panamanian Gateway closure in a coupled ocean-atmosphere GCM. Geophysical Research Letters, 2005, 32, .	4.0	24
8	Effect of eddy transport on the nutrient supply into the euphotic zone simulated in an eddy-permitting ocean ecosystem model. Journal of Marine Systems, 2010, 83, 67-87.	2.1	20
9	A comparison between phytoplankton community structures derived from a global 3D ecosystem model and satellite observation. Journal of Marine Systems, 2013, 109-110, 129-137.	2.1	19
10	Photoacclimation by phytoplankton determines the distribution of global subsurface chlorophyll maxima in the ocean. Communications Earth & Environment, 2021, 2, .	6.8	19
11	Unprecedented decline of Arctic sea ice outflow in 2018. Nature Communications, 2022, 13, 1747.	12.8	19
12	A comparison between gradient descent and stochastic approaches for parameter optimization of a sea ice model. Ocean Science, 2013, 9, 609-630.	3.4	18
13	Simultaneous Parameter Optimization of an Arctic Sea Ice-Ocean Model by a Genetic Algorithm. Monthly Weather Review, 2019, 147, 1899-1926.	1.4	18
14	Evaluation of Arctic sea ice drift and its dependency on near-surface wind and sea ice conditions in the coupled regional climate model HIRHAM-NAOSIM. Cryosphere, 2020, 14, 1727-1746.	3.9	18
15	Numerical Study of Eastern Boundary Ventilation and Its Effects on the Thermocline Structure. Journal of Physical Oceanography, 2001, 31, 3002-3019.	1.7	17
16	Observed Changes in the Arctic Freshwater Outflow in Fram Strait. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	16
17	Northward transport of pacific summer water along the Northwind Ridge in the Western Arctic Ocean. Journal of Oceanography, 2007, 63, 363-378.	1.7	14
18	Impact of Sea Ice Model Complexity on the Performance of an Unstructured-Mesh Sea Ice/Ocean Model under Different Atmospheric Forcings. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002438.	3.8	11

#	ARTICLE	IF	CITATIONS
19	Decorrelation scales for Arctic Ocean hydrography – Part I: Amerasian Basin. <i>Ocean Science</i> , 2018, 14, 161-185.	3.4	9
20	Covariance of Optimal Parameters of an Arctic Sea Ice–Ocean Model. <i>Monthly Weather Review</i> , 2019, 147, 2579-2602.	1.4	7
21	A semi-analytical model of barotropic and baroclinic flows for an open Panama Gateway. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 50, 55-77.	1.8	0