

# Hiroshi Sumata

## List of Publications by Year in descending order

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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	Observed Changes in the Arctic Freshwater Outflow in Fram Strait. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	16
2	Unprecedented decline of Arctic sea ice outflow in 2018. <i>Nature Communications</i> , 2022, 13, 1747.	12.8	19
3	Impact of Sea-Ice Model Complexity on the Performance of an Unstructured-Mesh Sea-Ice/Ocean Model under Different Atmospheric Forcings. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002438.	3.8	11
4	Photoacclimation by phytoplankton determines the distribution of global subsurface chlorophyll maxima in the ocean. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	19
5	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. <i>Cryosphere</i> , 2020, 14, 1727-1746.	3.9	18
6	Covariance of Optimal Parameters of an Arctic Sea Ice-Ocean Model. <i>Monthly Weather Review</i> , 2019, 147, 2579-2602.	1.4	7
7	Simultaneous Parameter Optimization of an Arctic Sea Ice-Ocean Model by a Genetic Algorithm. <i>Monthly Weather Review</i> , 2019, 147, 1899-1926.	1.4	18
8	Decorrelation scales for Arctic Ocean hydrography - Part I: Amerasian Basin. <i>Ocean Science</i> , 2018, 14, 161-185.	3.4	9
9	UDASH - Unified Database for Arctic and Subarctic Hydrography. <i>Earth System Science Data</i> , 2018, 10, 1119-1138.	9.9	34
10	Uncertainty of Arctic summer ice drift assessed by high-resolution SAR data. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 5285-5301.	2.6	39
11	Empirical error functions for monthly mean Arctic sea-ice drift. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 7450-7475.	2.6	29
12	An intercomparison of Arctic ice drift products to deduce uncertainty estimates. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4887-4921.	2.6	101
13	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
14	A comparison between gradient descent and stochastic approaches for parameter optimization of a sea ice model. <i>Ocean Science</i> , 2013, 9, 609-630.	3.4	18
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Northward transport of pacific summer water along the Northwind Ridge in the Western Arctic Ocean. <i>Journal of Oceanography</i> , 2007, 63, 363-378.	1.7	14
20	North Pacific halocline and cold climate induced by Panamanian Gateway closure in a coupled ocean-atmosphere GCM. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	24
21	Numerical Study of Eastern Boundary Ventilation and Its Effects on the Thermocline Structure. <i>Journal of Physical Oceanography</i> , 2001, 31, 3002-3019.	1.7	17