WiesÅ‚aw MasÅ‚owski

List of Publications by Year
in descending order

48 papers	1,815 citations	304743 22 h-index	276875 41 g-index
71 all docs	71 docs citations	71 times ranked	2251 citing authors

#	Article	IF	Citations
1	On climatological mass, heat, and salt transports through the Barents Sea and Fram Strait from a pan-Arctic coupled ice-ocean model simulation. Journal of Geophysical Research, 2004, 109, .	3.3	153
2	Ridging, strength, and stability in high-resolution sea ice models. Journal of Geophysical Research, 2007, 112, .	3.3	145
3	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
4	Bottom-up forcing and the decline of Steller sea lions (Eumetopias jubatus) in Alaska: assessing the ocean climate hypothesis. Fisheries Oceanography, 2007, 16, 46-67.	1.7	118
5	The Future of Arctic Sea Ice. Annual Review of Earth and Planetary Sciences, 2012, 40, 625-654.	11.0	114
6	Ecological characteristics of core-use areas used by Beringâ€“Chukchiâ€“Beaufort (BCB) bowhead whales, 2006â€“2012. Progress in Oceanography, 2015, 136, 201-222.	3.2	104
7	Mass and heat transports in the NE Barents Sea: Observations and models. Journal of Marine Systems, 2009, 75, 56-69.	2.1	71
8	A numerical model of seasonal primary production within the Chukchi/Beaufort Seas. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 3541-3576.	1.4	70
9	Evaluation of Arctic sea ice thickness simulated by Arctic Ocean Model Intercomparison Project models. Journal of Geophysical Research, 2012, 117, .	3.3	66
10	Overview of the MOSAiC expedition: Physical oceanography. Elementa, 2022, 10, .	3.2	54
11	Airâ€sea flux of CO₂ in the Arctic Ocean, 1998â€“2003. Journal of Geophysical Research, 2010, 115, .	3.3	51
12	On large outflows of Arctic sea ice into the Barents Sea. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	49
13	Influence of sea ice on the atmosphere: A study with an Arctic atmospheric regional climate model. Journal of Geophysical Research, 2006, 111, .	3.3	49
14	Intrusion of warm Bering/Chukchi waters onto the shelf in the western Beaufort Sea. Journal of Geophysical Research, 2009, 114, .	3.3	48
15	Evaluation and control mechanisms of volume and freshwater export through the Canadian Arctic Archipelago in a highâ€resolution panâ€Arctic iceâ€ocean model. Journal of Geophysical Research, 2012, 117, .	3.3	45
16	Freshwater distribution in the Arctic Ocean: Simulation with a highâ€resolution model and modelâ€data comparison. Journal of Geophysical Research, 2008, 113, .	3.3	36
17	Development of the Regional Arctic System Model (RASM): Near-Surface Atmospheric Climate Sensitivity. Journal of Climate, 2017, 30, 5729-5753.	3.2	35
18	Decadal shifts in biophysical forcing of Arctic marine food webs: Numerical consequences. Journal of Geophysical Research, 2004, 109, .	3.3	34

#	ARTICLE	IF	CITATIONS
19	Simulating transient ice-ocean Ekman transport in the Regional Arctic System Model and Community Earth System Model. Annals of Glaciology, 2015, 56, 211-228.	1.4	34
20	Oceanographic characteristics associated with autumn movements of bowhead whales in the Chukchi Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 152, 121-131.	1.4	31
21	The coastal streamflow flux in the <scp>R</scp>egional <scp>A</scp>rctic <scp>S</scp>ystem <scp>M</scp>odel. Journal of Geophysical Research: Oceans, 2017, 122, 1683-1701.	2.6	28
22	Land Surface Climate in the Regional Arctic System Model. Journal of Climate, 2016, 29, 6543-6562.	3.2	25
23	Impact of Shelfâ€“Basin Freshwater Transport on Deep Convection in the Western Labrador Sea. Journal of Physical Oceanography, 2011, 41, 2187-2210.	1.7	24
24	Winter Atmospheric Buoyancy Forcing and Oceanic Response during Strong Wind Events around Southeastern Greenland in the Regional Arctic System Model (RASM) for 1990â€“2010*. Journal of Climate, 2016, 29, 975-994.	3.2	23
25	A Spatial Evaluation of Arctic Sea Ice and Regional Limitations in CMIP6 Historical Simulations. Journal of Climate, 2021, 34, 6399-6420.	3.2	23
26	Trophic cascades and future harmful algal blooms within ice-free Arctic Seas north of Bering Strait: A simulation analysis. Progress in Oceanography, 2011, 91, 312-343.	3.2	19
27	On the Flow Through Bering Strait: A Synthesis of Model Results and Observations. , 2014, , 167-198.		19
28	High resolution simulations of Arctic sea ice, 1979â€“1993. Polar Research, 2003, 22, 67-74.	1.6	18
29	Hidden Production: On the Importance of Pelagic Phytoplankton Blooms Beneath Arctic Sea Ice. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016211.	2.6	18
30	Researchers explore Arctic freshwater's role in ocean circulation. Eos, 2000, 81, 169-174.	0.1	16
31	Effects of Model Resolution and Ocean Mixing on Forced Iceâ€Ocean Physical and Biogeochemical Simulations Using Global and Regional System Models. Journal of Geophysical Research: Oceans, 2018, 123, 358-377.	2.6	16
32	Investigating controls on sea ice algal production using E3SMv1.1-BGC. Annals of Glaciology, 2020, 61, 51-72.	1.4	16
33	Effects of mesoscale eddies on the flow of the Alaskan Stream. Journal of Geophysical Research, 2008, 113, .	3.3	15
34	Sea Ice Rheology Experiment (SIREx): 1. Scaling and Statistical Properties of Seaâ€Ice Deformation Fields. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	15
35	Towards eddy-resolving models of the Arctic Ocean. Geophysical Monograph Series, 2008, , 241-264.	0.1	14
36	Sea Ice Rheology Experiment (SIREx): 2. Evaluating Linear Kinematic Features in Highâ€Resolution Sea Ice Simulations. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	13

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37	Toward Prediction of Environmental Arctic Change. Computing in Science and Engineering, 2007, 9, 29-34.	1.2	11
38	A Variational Method for Sea Ice Ridging in Earth System Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 771-805.	3.8	11
39	Understanding the Cold Season Arctic Surface Warming Trend in Recent Decades. Geophysical Research Letters, 2021, 48, e2021GL094878.	4.0	9
40	On the circulation, water mass distribution, and nutrient concentrations of the western Chukchi Sea. Ocean Science, 2022, 18, 29-49.	3.4	7
41	Arctic sea ice anomalies during the MOSAiC winter 2019/20. Cryosphere, 2022, 16, 981-1005.	3.9	7
42	Evaluation of the atmosphereâ€“landâ€“oceanâ€“sea ice interface processes in the Regional Arctic System Model version 1 (RASM1) using local and globally gridded observations. Geoscientific Model Development, 2018, 11, 4817-4841.	3.6	6
43	Influence of oceanography on bowhead whale (Balaena mysticetus) foraging in the Chukchi Sea as inferred from animal-borne instrumentation. Continental Shelf Research, 2021, 224, 104434.	1.8	6
44	On the variability of the Bering Sea Cold Pool and implications for the biophysical environment. PLoS ONE, 2022, 17, e0266180.	2.5	6
45	Numerical simulations of topographic Rossby waves along the East Greenland Front. Journal of Geophysical Research, 1996, 101, 8775-8787.	3.3	5
46	An evaluation of the E3SMv1 Arctic ocean and sea-ice regionally refined model. Geoscientific Model Development, 2022, 15, 3133-3160.	3.6	4
47	Proxies for heat fluxes to the Arctic Ocean through Fram Strait. Ocean Modelling, 2019, 137, 21-39.	2.4	2
48	Global impacts of Arctic climate processes. Eos, 2005, 86, 509.	0.1	1