## Dirk Notz

## List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7355589/dirk-notz-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

9,052 43 95 111 h-index g-index citations papers 6.69 10,622 6.4 135 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
111	Overview of the MOSAiC expedition. <i>Elementa</i> , <b>2022</b> , 10,	3.6	13
110	Network connectivity between the winter Arctic Oscillation and summer sea ice in CMIP6 models and observations. <i>Cryosphere</i> , <b>2022</b> , 16, 1653-1673	5.5	Ο
109	New climate models reveal faster and larger increases in Arctic precipitation than previously projected. <i>Nature Communications</i> , <b>2021</b> , 12, 6765	17.4	11
108	The Roland von Glasow Air-Sea-Ice Chamber (RvG-ASIC): an experimental facility for studying oceanBea-iceBtmosphere interactions. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 1833-1849	4	2
107	On the Origin of Discrepancies Between Observed and Simulated Memory of Arctic Sea Ice. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL091784	4.9	4
106	Arctic open-water periods are projected to lengthen dramatically by 2100. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	7
105	A Multi-Sensor and Modeling Approach for Mapping Light Under Sea Ice During the Ice-Growth Season. <i>Frontiers in Marine Science</i> , <b>2021</b> , 7,	4.5	8
104	Estimating instantaneous sea-ice dynamics from space using the bi-static radar measurements of Earth Explorer 10 candidate Harmony. <i>Cryosphere</i> , <b>2021</b> , 15, 3101-3118	5.5	O
103	Sensitivity of Northern Hemisphere climate to iceBcean interface heat flux parameterizations. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 4891-4908	6.3	3
102	The call of the emperor penguin: Legal responses to species threatened by climate change. <i>Global Change Biology</i> , <b>2021</b> , 27, 5008-5029	11.4	5
101	A multi-model CMIP6-PMIP4 study of Arctic sea ice at 127 ka: sea ice data compilation and model differences. <i>Climate of the Past</i> , <b>2021</b> , 17, 37-62	3.9	12
100	Regional September Sea Ice Forecasting with Complex Networks and Gaussian Processes. <i>Weather and Forecasting</i> , <b>2020</b> , 35, 793-806	2.1	5
99	Machine learning approaches to retrieve pan-Arctic melt ponds from visible satellite imagery. <i>Remote Sensing of Environment</i> , <b>2020</b> , 247, 111919	13.2	8
98	The Future of Sea Ice Modeling: Where Do We Go from Here?. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1304-E1311	6.1	10
97	The Arctic Ocean Observation Operator for 6.9 GHz (ARC3O) Part (2: Development and evaluation. <i>Cryosphere</i> , <b>2020</b> , 14, 2387-2407	5.5	5
96	The Arctic Ocean Observation Operator for 6.9 GHz (ARC3O) [Part]: How to obtain sea ice brightness temperatures at 6.9 GHz from climate model output. <i>Cryosphere</i> , <b>2020</b> , 14, 2369-2386	5.5	4
95	Satellite passive microwave sea-ice concentration data set inter-comparison for Arctic summer conditions. <i>Cryosphere</i> , <b>2020</b> , 14, 2469-2493	5.5	20

## (2018-2020)

94	Sea-ice information and forecast needs for industry maritime stakeholders. <i>Polar Geography</i> , <b>2020</b> , 43, 160-187	2.2	15
93	A Bayesian Logistic Regression for Probabilistic Forecasts of the Minimum September Arctic Sea Ice Cover. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2020EA001176	3.1	2
92	Sea-ice-free Arctic during the Last Interglacial supports fast future loss. <i>Nature Climate Change</i> , <b>2020</b> , 10, 928-932	21.4	27
91	A Lagrangian Snow Evolution System for Sea Ice Applications (SnowModel-LG): Part IIAnalyses. <i>Journal of Geophysical Research: Oceans</i> , <b>2020</b> , 125, e2019JC015900	3.3	21
90	Platelet Ice Under Arctic Pack Ice in Winter. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088898	4.9	4
89	Antarctic Sea Ice Area in CMIP6. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086729	4.9	54
88	Arctic Sea Ice in CMIP6. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086749	4.9	126
87	Version 2 of the EUMETSAT OSI SAF and ESA CCI sea-ice concentration climate data records. <i>Cryosphere</i> , <b>2019</b> , 13, 49-78	5.5	116
86	The Max Planck Institute Grand Ensemble: Enabling the Exploration of Climate System Variability. Journal of Advances in Modeling Earth Systems, <b>2019</b> , 11, 2050-2069	7.1	172
85	Arctic sea-ice variability is primarily driven by atmospheric temperature fluctuations. <i>Nature Geoscience</i> , <b>2019</b> , 12, 430-434	18.3	78
84	Developments in the MPI-M Earth System Model version 1.2 (MPI-ESM1.2) and Its Response to Increasing CO. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 998-1038	7.1	258
83	Satellite passive microwave sea-ice concentration data set intercomparison: closed ice and ship-based observations. <i>Cryosphere</i> , <b>2019</b> , 13, 3261-3307	5.5	35
82	Greenland monthly precipitation analysis from the Arctic System Reanalysis (ASR): 2000 <b>1</b> 012. <i>Polar Science</i> , <b>2019</b> , 19, 1-12	2.3	12
81	Sea Ice in Coupled Climate Models <b>2019</b> , 200-207		
80	High-frequency and meso-scale winter sea-ice variability in the Southern Ocean in a high-resolution global ocean model. <i>Ocean Dynamics</i> , <b>2018</b> , 68, 347-361	2.3	3
79	Arctic Sea Ice in a 1.5LC Warmer World. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1963-1971	4.9	42
78	Modulation of Sea Ice Melt Onset and Retreat in the Laptev Sea by the Timing of Snow Retreat in the West Siberian Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 8691-8707	4.4	7
77	A Higher-resolution Version of the Max Planck Institute Earth System Model (MPI-ESM1.2-HR).  Journal of Advances in Modeling Earth Systems, <b>2018</b> , 10, 1383-1413	7.1	117

76	The Trajectory Towards a Seasonally Ice-Free Arctic Ocean. Current Climate Change Reports, 2018, 4, 40	7 <sub>9</sub> 416	41
75	Retrievals of Arctic Sea-Ice Volume and Its Trend Significantly Affected by Interannual Snow Variability. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,751-11,759	4.9	15
74	Changing state of Arctic sea ice across all seasons. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 103001	6.2	298
73	Drivers of Arctic Ocean warming in CMIP5 models. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 4263-4271	4.9	18
72	Consistently Estimating Internal Climate Variability from Climate Model Simulations. <i>Journal of Climate</i> , <b>2017</b> , 30, 9555-9573	4.4	33
71	Arctic sea ice seasonal-to-decadal variability and long-term change. <i>Past Global Change Magazine</i> , <b>2017</b> , 25, 14-19	1	5
70	Reconciling estimates of the ratio of heat and salt fluxes at the iceBcean interface. <i>Journal of Geophysical Research: Oceans</i> , <b>2016</b> , 121, 8419-8433	3.3	6
69	Observed Arctic sea-ice loss directly follows anthropogenic CO2 emission. <i>Science</i> , <b>2016</b> , 354, 747-750	33.3	259
68	Impact of Thermally Driven Turbulence on the Bottom Melting of Ice. <i>Journal of Physical Oceanography</i> , <b>2016</b> , 46, 1171-1187	2.4	10
67	Assessment of the sea-ice carbon pump: Insights from a three-dimensional ocean-sea-ice-biogeochemical model (MPIOM/HAMOCC). <i>Elementa</i> , <b>2016</b> , 4,	3.6	9
66	Sea Ice Model Intercomparison Project (SIMIP): Understanding sea ice through climate-model simulations <b>2016</b> ,		2
65	The CMIP6 Sea-Ice Model Intercomparison Project (SIMIP): understanding sea ice through climate-model simulations. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3427-3446	6.3	54
64	Statistical indicators of Arctic sea-ice stability [prospects and limitations. Cryosphere, 2016, 10, 1631-164]	<b>45</b> .5	13
63	On the Potential for Abrupt Arctic Winter Sea Ice Loss. <i>Journal of Climate</i> , <b>2016</b> , 29, 2703-2719	4.4	35
62	Seasonal climate forecasts significantly affected by observational uncertainty of Arctic sea ice concentration. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 852-859	4.9	31
61	Sea ice in Earth system models <b>2016</b> , 304-325		5
60	400 predictions: the SEARCH Sea Ice Outlook 2008\( \textbf{D}\) 015. <i>Polar Geography</i> , <b>2016</b> , 39, 274-287	2.2	29
59	Summer atmospheric circulation anomalies over the Arctic Ocean and their influences on September sea ice extent: A cautionary tale. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,463	4.4	44

58	A 1-D modelling study of Arctic sea-ice salinity. <i>Cryosphere</i> , <b>2015</b> , 9, 305-329	5.5	13
57	The prediction of surface temperature in the new seasonal prediction system based on the MPI-ESM coupled climate model. <i>Climate Dynamics</i> , <b>2015</b> , 44, 2723-2735	4.2	42
56	Insights on past and future sea-ice evolution from combining observations and models. <i>Global and Planetary Change</i> , <b>2015</b> , 135, 119-132	4.2	69
55	How well must climate models agree with observations?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	64
54	Arctic sea ice trends, variability and implications for seasonal ice forecasting. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	214
53	Controlling high-latitude Southern Ocean convection in climate models. <i>Ocean Modelling</i> , <b>2015</b> , 86, 58-7	75	28
52	On the thermodynamics of melting sea ice versus melting freshwater ice. <i>Annals of Glaciology</i> , <b>2015</b> , 56, 191-199	2.5	1
51	Biogenic silica recycling in sea ice inferred from Si-isotopes: constraints from Arctic winter first-year sea ice. <i>Biogeochemistry</i> , <b>2014</b> , 119, 25-33	3.8	10
50	Drivers of variability in Arctic sea-ice drift speed. <i>Journal of Geophysical Research: Oceans</i> , <b>2014</b> , 119, 5755-5775	3.3	44
49	Predicting September sea ice: Ensemble skill of the SEARCH Sea Ice Outlook 2008 <b>2</b> 013. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2411-2418	4.9	132
48	Advances in understanding and parameterization of small-scale physical processes in the marine Arctic climate system: a review. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9403-9450	6.8	113
47	Anthropogenic influence on recent circulation-driven Antarctic sea ice changes. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8429-8437	4.9	44
46	Inter-hemispheric asymmetry in the sea-ice response to volcanic forcing simulated by MPI-ESM (COSMOS-Mill). <i>Earth System Dynamics</i> , <b>2014</b> , 5, 223-242	4.8	21
45	Temporal dynamics of ikaite in experimental sea ice. <i>Cryosphere</i> , <b>2014</b> , 8, 1469-1478	5.5	22
44	Sea-ice extent and its trend provide limited metrics of model performance. <i>Cryosphere</i> , <b>2014</b> , 8, 229-24.	<b>3</b> 5.5	43
43	The Transient versus the Equilibrium Response of Sea Ice to Global Warming. <i>Journal of Climate</i> , <b>2013</b> , 26, 5624-5636	4.4	42
42	Predictability of large interannual Arctic sea-ice anomalies. <i>Climate Dynamics</i> , <b>2013</b> , 41, 2511-2526	4.2	39
	Treated States of tallige interestinates in each seed feet allowed each call and a seed feet allowed each ca		

40	Arctic: Uncertainties in methane link. <i>Nature</i> , <b>2013</b> , 500, 529	50.4	2
39	Characteristics of the ocean simulations in the Max Planck Institute Ocean Model (MPIOM) the ocean component of the MPI-Earth system model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 422-446	7.1	438
38	Climate and carbon cycle changes from 1850 to 2100 in MPI-ESM simulations for the Coupled Model Intercomparison Project phase 5. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2013</b> , 5, 572-59	7 <sup>7.1</sup>	979
37	Arctic sea-ice evolution as modeled by Max Planck Institute for Meteorology's Earth system model. Journal of Advances in Modeling Earth Systems, 2013, 5, 173-194	7.1	89
36	Assimilation of sea-ice concentration in a global climate model physical and statistical aspects. <i>Ocean Science</i> , <b>2013</b> , 9, 19-36	4	43
35	Potential climatic transitions with profound impact on Europe. Climatic Change, 2012, 110, 845-878	4.5	55
34	Challenges in simulating sea ice in Earth System Models. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , <b>2012</b> , 3, 509-526	8.4	30
33	Recent changes in tropospheric water vapor over the Arctic as assessed from radiosondes and atmospheric reanalyses. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		118
32	Observations reveal external driver for Arctic sea-ice retreat. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	118
31	Tuning the climate of a global model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2012</b> , 4, n/a-n/a	7.1	279
30	Forecast skill of multi-year seasonal means in the decadal prediction system of the Max Planck Institute for Meteorology. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	60
29	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. <i>Journal of Climate</i> , <b>2012</b> , 25, 1431-1452	4.4	90
28	Laboratory study of initial sea-ice growth: properties of grease ice and nilas. <i>Cryosphere</i> , <b>2012</b> , 6, 729-7-	<b>45</b> .5	8
27	Changing seasonal sea ice predictor relationships in a changing Arctic climate. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	57
26	Recovery mechanisms of Arctic summer sea ice. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	147
25	The multiphase physics of sea ice: a review for model developers. <i>Cryosphere</i> , <b>2011</b> , 5, 989-1009	5.5	80
24	The sea ice mass budget of the Arctic and its future change as simulated by coupled climate models. <i>Climate Dynamics</i> , <b>2010</b> , 34, 185-200	4.2	120
23	The future of ice sheets and sea ice: between reversible retreat and unstoppable loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 20590-5	11.5	111

22	Desalination processes of sea ice revisited. Journal of Geophysical Research, 2009, 114,		136
21	Ice Tank Experiments Highlight Changes in Sea Ice Types. <i>Eos</i> , <b>2009</b> , 90, 81-82	1.5	9
20	In situ measurements of the evolution of young sea ice. Journal of Geophysical Research, 2008, 113,		75
19	Arctic Sea Ice Extent Plummets in 2007. <i>Eos</i> , <b>2008</b> , 89, 13	1.5	356
18	Perspectives on the Arctics shrinking sea-ice cover. <i>Science</i> , <b>2007</b> , 315, 1533-6	33.3	973
17	Arctic sea ice decline: Faster than forecast. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	1225
16	Whither Arctic sea ice? A clear signal of decline regionally, seasonally and extending beyond the satellite record. <i>Annals of Glaciology</i> , <b>2007</b> , 46, 428-434	2.5	146
15	A one-dimensional enthalpy model of sea ice. <i>Annals of Glaciology</i> , <b>2006</b> , 44, 123-128	2.5	18
14	A non-destructive method for measuring the salinity and solid fraction of growing sea ice in situ. <i>Journal of Glaciology</i> , <b>2005</b> , 51, 159-166	3.4	56
13	Impact of underwater-ice evolution on Arctic summer sea ice. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		81
12	Advances in understanding and parameterization of small-scale physical processes in the marine Arctic climate system: a review		4
11	Inter-hemispheric asymmetry in the sea-ice response to volcanic forcing simulated by MPI-ESM (COSM	OS-Mill	) 1
10	Assimilation of sea-ice concentration in a global climate model [þhysical and statistical aspects		8
9	Version 2 of the EUMETSAT OSI SAF and ESA CCI Sea Ice Concentration Climate Data Records		2
8	Satellite Passive Microwave Sea-Ice Concentration Data Set Intercomparison: Closed Ice and Ship-Based Observations		2
7	The multiphase physics of sea ice: a review		1
6	Initial sea-ice growth in open water: properties of grease ice and nilas		1
5	Sea-ice extent provides a limited metric of model performance		3

4	rechnical Note: On the use of the mushy-layer Rayleigh number for the interpretation of sea-ice-core data	9
3	A 1-D model study of Arctic sea-ice salinity	2
2	A linear mixed effects model for seasonal forecasts of Arctic sea ice retreat. <i>Polar Geography</i> ,1-18 2.2	1
1	Dynamic ikaite production and dissolution in sea ice ©control by temperature, salinity and <i>p</i> CO <sub>2</sub> conditions	1