

# Torben Koenigk

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,923  
citations

159525

30  
h-index

138417

58  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4949  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Resolution Model Intercomparison Project (HighResMIPv1.0) for CMIP6. Geoscientific Model Development, 2016, 9, 4185-4208.	1.3	643
2	EC-Earth. Bulletin of the American Meteorological Society, 2010, 91, 1357-1364.	1.7	474
3	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	1.2	230
4	The EC-Earth3 Earth system model for the Coupled Model Intercomparison Project 6. Geoscientific Model Development, 2022, 15, 2973-3020.	1.3	192
5	A review on Arctic sea-ice predictability and prediction on seasonal to decadal time-scales. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 546-561.	1.0	177
6	Evaluating Impacts of Recent Arctic Sea Ice Loss on the Northern Hemisphere Winter Climate Change. Geophysical Research Letters, 2018, 45, 3255-3263.	1.5	159
7	Arctic climate change in 21st century CMIP5 simulations with EC-Earth. Climate Dynamics, 2013, 40, 2719-2743.	1.7	146
8	Tundra shrubification and tree-line advance amplify arctic climate warming: results from an individual-based dynamic vegetation model. Environmental Research Letters, 2013, 8, 034023.	2.2	107
9	A look at the ocean in the EC-Earth climate model. Climate Dynamics, 2012, 39, 2631-2657.	1.7	85
10	Sea ice in the Barents Sea: seasonal to interannual variability and climate feedbacks in a global coupled model. Climate Dynamics, 2009, 32, 1119-1138.	1.7	83
11	Advancements in decadal climate predictability: The role of nonoceanic drivers. Reviews of Geophysics, 2015, 53, 165-202.	9.0	81
12	Regional Arctic sea ice variations as predictor for winter climate conditions. Climate Dynamics, 2016, 46, 317-337.	1.7	80
13	Ocean heat transport into the Arctic in the twentieth and twenty-first century in EC-Earth. Climate Dynamics, 2014, 42, 3101-3120.	1.7	79
14	HighResMIP versions of EC-Earth: EC-Earth3P and EC-Earth3P-HR " description, model computational performance and basic validation. Geoscientific Model Development, 2020, 13, 3507-3527.	1.3	77
15	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032184.	1.2	69
16	Sensitivity of the Atlantic Meridional Overturning Circulation to Model Resolution in CMIP6 HighResMIP Simulations and Implications for Future Changes. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002014.	1.3	59
17	Variability of Fram Strait sea ice export: causes, impacts and feedbacks in a coupled climate model. Climate Dynamics, 2006, 26, 17-34.	1.7	58
18	Seasonal to interannual climate predictability in mid and high northern latitudes in a global coupled model. Climate Dynamics, 2009, 32, 783-798.	1.7	57

#	ARTICLE	IF	CITATIONS
19	Multi-model evaluation of the sensitivity of the global energy budget and hydrological cycle to resolution. <i>Climate Dynamics</i> , 2019, 52, 6817-6846.	1.7	57
20	Arctic freshwater export in the 20th and 21st centuries. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
21	Warmer climate projections in EC-Earth3-Veg: the role of changes in the greenhouse gas concentrations from CMIP5 to CMIP6. <i>Environmental Research Letters</i> , 2020, 15, 054020.	2.2	54
22	Low-frequency variability of the arctic climate: the role of oceanic and atmospheric heat transport variations. <i>Climate Dynamics</i> , 2010, 34, 265-279.	1.7	47
23	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2537-2554.	1.2	46
24	Impact of ocean resolution and mean state on the rate of AMOC weakening. <i>Climate Dynamics</i> , 2020, 55, 1711-1732.	1.7	45
25	Arctic climate change in an ensemble of regional CORDEX simulations. <i>Polar Research</i> , 2015, 34, 24603.	1.6	43
26	Extinction of the northern oceanic deep convection in an ensemble of climate model simulations of the 20th and 21st centuries. <i>Climate Dynamics</i> , 2016, 46, 2863-2882.	1.7	42
27	The thermodynamic state of the Arctic atmosphere observed by AIRS: comparisons during the record minimum sea ice extents of 2007 and 2012. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7441-7450.	1.9	41
28	Impacts of using spectral nudging on regional climate model RCA4 simulations of the Arctic. <i>Geoscientific Model Development</i> , 2013, 6, 849-859.	1.3	39
29	Summer Arctic sea ice albedo in CMIP5 models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1987-1998.	1.9	37
30	Future projections of cyclone activity in the Arctic for the 21st century from regional climate models (Arctic-CORDEX). <i>Global and Planetary Change</i> , 2019, 182, 103005.	1.6	32
31	Potential decadal predictability and its sensitivity to sea ice albedo parameterization in a global coupled model. <i>Climate Dynamics</i> , 2012, 38, 2389-2408.	1.7	31
32	Predicted Chance That Global Warming Will Temporarily Exceed 1.5°C. <i>Geophysical Research Letters</i> , 2018, 45, 11,895.	1.5	31
33	Arctic future scenario experiments with a coupled regional climate model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011, 63, 69-86.	0.8	29
34	Impact of Arctic sea ice variations on winter temperature anomalies in northern hemispheric land areas. <i>Climate Dynamics</i> , 2019, 52, 3111-3137.	1.7	29
35	Global exposure of population and land use to meteorological droughts under different warming levels and SSPs: A CORDEX-based study. <i>International Journal of Climatology</i> , 2021, 41, 6825-6853.	1.5	26
36	Arctic rapid sea ice loss events in regional coupled climate scenario experiments. <i>Ocean Science</i> , 2013, 9, 217-248.	1.3	24

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37	An interannual link between Arctic sea-ice cover and the North Atlantic Oscillation. <i>Climate Dynamics</i> , 2018, 50, 423-441.	1.7	23
38	Deep mixed ocean volume in the Labrador Sea in HighResMIP models. <i>Climate Dynamics</i> , 2021, 57, 1895-1918.	1.7	22
39	Polar Lower-Latitude Linkages and Their Role in Weather and Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES197-ES200.	1.7	21
40	Arctic climate and its interaction with lower latitudes under different levels of anthropogenic warming in a global coupled climate model. <i>Climate Dynamics</i> , 2017, 49, 471-492.	1.7	20
41	WMO Global Annual to Decadal Climate Update: A Prediction for 2021â€“25. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1117-E1129.	1.7	20
42	Climate Change in the Arctic. <i>Springer Polar Sciences</i> , 2020, , 673-705.	0.0	19
43	The SMHI Large Ensemble (SMHI-LENS) with EC-Earth3.3.1. <i>Geoscientific Model Development</i> , 2021, 14, 4781-4796.	1.3	17
44	Increasing Atlantic Ocean Heat Transport in the Latest Generation Coupled Oceanâ€“Atmosphere Models: The Role of Airâ€“Sea Interaction. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8624-8637.	1.0	15
45	Impact of ocean heat transport on the Arctic sea-ice decline: a model study with EC-Earth3. <i>Climate Dynamics</i> , 2021, 56, 1407-1432.	1.7	14
46	Sea Iceâ€“Ocean Interactions in the Barents Sea Modeled at Different Resolutions. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	13
47	Snowfall distribution and its response to the Arctic Oscillation: an evaluation of HighResMIP models in the Arctic using CPR/CloudSat observations. <i>Geoscientific Model Development</i> , 2019, 12, 3759-3772.	1.3	9
48	Sensitivity of the Arctic freshwater content and transport to model resolution. <i>Climate Dynamics</i> , 2019, 53, 1765-1781.	1.7	8
49	The Interplay of Recent Vegetation and Sea Ice Dynamicsâ€“Results From a Regional Earth System Model Over the Arctic. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085982.	1.5	7
50	Benefits of sea ice initialization for the interannual-to-decadal climate prediction skill in the Arctic in EC-Earth3. <i>Geoscientific Model Development</i> , 2021, 14, 4283-4305.	1.3	7
51	On the effects of constraining atmospheric circulation in a coupled atmosphere-ocean Arctic regional climate model. <i>Climate Dynamics</i> , 2016, 46, 3499-3515.	1.7	6
52	A statistical and process-oriented evaluation of cloud radiative effects in high-resolution global models. <i>Geoscientific Model Development</i> , 2019, 12, 1679-1702.	1.3	6
53	Towards normal Siberian winter temperatures?. <i>International Journal of Climatology</i> , 2019, 39, 4567-4574.	1.5	6
54	Exploring the influence of the North Pacific Rossby wave sources on the variability of summer atmospheric circulation and precipitation over the Northern Hemisphere. <i>Climate Dynamics</i> , 2022, 59, 2025-2039.	1.7	6

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55	On the contribution of internal climate variability to European future climate trends. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 72, 1788901.	0.8	5
56	Assessing the influence of sea surface temperature and arctic sea ice cover on the uncertainty in the boreal winter future climate projections. <i>Climate Dynamics</i> , 2022, 59, 433-454.	1.7	4
57	Trends of intense cyclone activity in the Arctic from reanalyses data and regional climate models (Arctic-CORDEX). <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 231, 012003.	0.2	3
58	Modelling the Sea Ice Export Through Fram Strait. , 2008, , 171-191.		2
59	Connecting the dots: An interdisciplinary perspective on climate change effects on whales and whale watching in Skjálfandi Bay, Iceland. <i>Ocean and Coastal Management</i> , 2022, 226, 106274.	2.0	1
60	West Asian climate during the last millennium according to the EC-Earth model. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 102-113.	0.6	0