Torben Koenigk

List of Publications by Year
in descending order

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60	3,923	159525	138417
papers	citations	30 h-index	58 g-index

91	91	91	4949
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the contribution of internal climate variability to European future climate trends. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1788901.	0.8	5
2	Assessing the influence of sea surface temperature and arctic sea ice cover on the uncertainty in the boreal winter future climate projections. Climate Dynamics, 2022, 59, 433-454.	1.7	4
3	Exploring the influence of the North Pacific Rossby wave sources on the variability of summer atmospheric circulation and precipitation over the Northern Hemisphere. Climate Dynamics, 2022, 59, 2025-2039.	1.7	6
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	WMO Global Annual to Decadal Climate Update: A Prediction for 2021â€“25. Bulletin of the American Meteorological Society, 2022, 103, E1117-E1129.	1.7	20
6	Connecting the dots: An interdisciplinary perspective on climate change effects on whales and whale watching in SkjÃ¡lfandi Bay, Iceland. Ocean and Coastal Management, 2022, 226, 106274.	2.0	1
7	Impact of ocean heat transport on the Arctic sea-ice decline: a model study with EC-Earth3. Climate Dynamics, 2021, 56, 1407-1432.	1.7	14
8	Deep mixed ocean volume in the Labrador Sea in HighResMIP models. Climate Dynamics, 2021, 57, 1895-1918.	1.7	22
9	Global exposure of population and landâ€use to meteorological droughts under different warming levels and <scp>SSPs</scp>: A <scp>CORDEX</scp>â€based study. International Journal of Climatology, 2021, 41, 6825-6853.	1.5	26
10	The SMHI Large Ensemble (SMHI-LENS) with EC-Earth3.3.1. Geoscientific Model Development, 2021, 14, 4781-4796.	1.3	17
11	Benefits of sea ice initialization for the interannual-to-decadal climate prediction skill in the Arctic in EC-Earth3. Geoscientific Model Development, 2021, 14, 4283-4305.	1.3	7
12	West Asian climate during the last millennium according to the EC-Earth model. Canadian Journal of Earth Sciences, 2020, 57, 102-113.	0.6	0
13	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	1.2	230
14	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
15	Impact of ocean resolution and mean state on the rate of AMOC weakening. Climate Dynamics, 2020, 55, 1711-1732.	1.7	45
16	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
17	Warmer climate projections in EC-Earth3-Veg: the role of changes in the greenhouse gas concentrations from CMIP5 to CMIP6. Environmental Research Letters, 2020, 15, 054020.	2.2	54
18	Sea Iceâ€”Ocean Interactions in the Barents Sea Modeled at Different Resolutions. Frontiers in Earth Science, 2020, 8, .	0.8	13

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19	The Interplay of Recent Vegetation and Sea Ice Dynamicsâ€"Results From a Regional Earth System Model Over the Arctic. Geophysical Research Letters, 2020, 47, e2019GL085982.	1.5	7
20	Climate Change in the Arctic. Springer Polar Sciences, 2020, , 673-705.	0.0	19
21	HighResMIP versions of EC-Earth: EC-Earth3P and EC-Earth3P-HR â€“ description, model computational performance and basic validation. Geoscientific Model Development, 2020, 13, 3507-3527.	1.3	77
22	Sensitivity of the Arctic freshwater content and transport to model resolution. Climate Dynamics, 2019, 53, 1765-1781.	1.7	8
23	Snowfall distribution and its response to the Arctic Oscillation: an evaluation of HighResMIP models in the Arctic using CPR/CloudSat observations. Geoscientific Model Development, 2019, 12, 3759-3772.	1.3	9
24	Future projections of cyclone activity in the Arctic for the 21st century from regional climate models (Arctic-CORDEX). Global and Planetary Change, 2019, 182, 103005.	1.6	32
25	A statistical and process-oriented evaluation of cloud radiative effects in high-resolution global models. Geoscientific Model Development, 2019, 12, 1679-1702.	1.3	6
26	Multi-model evaluation of the sensitivity of the global energy budget and hydrological cycle to resolution. Climate Dynamics, 2019, 52, 6817-6846.	1.7	57
27	Towards normal Siberian winter temperatures?. International Journal of Climatology, 2019, 39, 4567-4574.	1.5	6
28	Trends of intense cyclone activity in the Arctic from reanalyses data and regional climate models (Arctic-CORDEX). IOP Conference Series: Earth and Environmental Science, 2019, 231, 012003.	0.2	3
29	Impact of Arctic sea ice variations on winter temperature anomalies in northern hemispheric land areas. Climate Dynamics, 2019, 52, 3111-3137.	1.7	29
30	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
31	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). Journal of Geophysical Research D: Atmospheres, 2018, 123, 2537-2554.	1.2	46
32	An interannual link between Arctic sea-ice cover and the North Atlantic Oscillation. Climate Dynamics, 2018, 50, 423-441.	1.7	23
33	Increasing Atlantic Ocean Heat Transport in the Latest Generation Coupled Oceanâ€Atmosphere Models: The Role of Airâ€Sea Interaction. Journal of Geophysical Research: Oceans, 2018, 123, 8624-8637.	1.0	15
34	Predicted Chance That Global Warming Will Temporarily Exceed 1.5ÂÂ°C. Geophysical Research Letters, 2018, 45, 11,895.	1.5	31
35	Arctic climate and its interaction with lower latitudes under different levels of anthropogenic warming in a global coupled climate model. Climate Dynamics, 2017, 49, 471-492.	1.7	20
36	High Resolution Model Intercomparison Project (HighResMIPÂv1.0) for CMIP6. Geoscientific Model Development, 2016, 9, 4185-4208.	1.3	643

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37	A review on Arctic seaâ€ice predictability and prediction on seasonal to decadal timeâ€scales. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 546-561.	1.0	177
38	Extinction of the northern oceanic deep convection in an ensemble of climate model simulations of the 20th and 21st centuries. Climate Dynamics, 2016, 46, 2863-2882.	1.7	42
39	On the effects of constraining atmospheric circulation in a coupled atmosphere-ocean Arctic regional climate model. Climate Dynamics, 2016, 46, 3499-3515.	1.7	6
40	Regional Arctic sea ice variations as predictor for winter climate conditions. Climate Dynamics, 2016, 46, 317-337.	1.7	80
41	Arctic climate change in an ensemble of regional CORDEX simulations. Polar Research, 2015, 34, 24603.	1.6	43
42	Polar Lower-Latitude Linkages and Their Role in Weather and Climate Prediction. Bulletin of the American Meteorological Society, 2015, 96, ES197-ES200.	1.7	21
43	Advancements in decadal climate predictability: The role of nonoceanic drivers. Reviews of Geophysics, 2015, 53, 165-202.	9.0	81
44	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
45	Summer Arctic sea ice albedo in CMIP5 models. Atmospheric Chemistry and Physics, 2014, 14, 1987-1998.	1.9	37
46	Arctic climate change in 21st century CMIP5 simulations with EC-Earth. Climate Dynamics, 2013, 40, 2719-2743.	1.7	146
47	The thermodynamic state of the Arctic atmosphere observed by AIRS: comparisons during the record minimum sea ice extents of 2007 and 2012. Atmospheric Chemistry and Physics, 2013, 13, 7441-7450.	1.9	41
48	Arctic rapid sea ice loss events in regional coupled climate scenario experiments. Ocean Science, 2013, 9, 217-248.	1.3	24
49	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
50	Impacts of using spectral nudging on regional climate model RCA4 simulations of the Arctic. Geoscientific Model Development, 2013, 6, 849-859.	1.3	39
51	A look at the ocean in the EC-Earth climate model. Climate Dynamics, 2012, 39, 2631-2657.	1.7	85
52	Potential decadal predictability and its sensitivity to sea ice albedo parameterization in a global coupled model. Climate Dynamics, 2012, 38, 2389-2408.	1.7	31
53	Arctic future scenario experiments with a coupled regional climate model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2011, 63, 69-86.	0.8	29
54	Low-frequency variability of the arctic climate: the role of oceanic and atmospheric heat transport variations. Climate Dynamics, 2010, 34, 265-279.	1.7	47

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55	EC-Earth. Bulletin of the American Meteorological Society, 2010, 91, 1357-1364.	1.7	474
56	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
57	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
58	Modelling the Sea Ice Export Through Fram Strait. , 2008, , 171-191.		2
59	Arctic freshwater export in the 20th and 21st centuries. Journal of Geophysical Research, 2007, 112, .	3.3	55
60	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