

Klaus Dethloff

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,939
citations

186265

28
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

4859
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of a link between fall Arctic sea ice concentration and atmospheric patterns in the following winter. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 64, 18624.	1.7	89
2	Stratospheric response to Arctic sea ice retreat and associated planetary wave propagation changes. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 19375.	1.7	94
3	Overview of the MOSAiC expedition: Physical oceanography. <i>Elementa</i> , 2022, 10, .	3.2	54
4	Overview of the MOSAiC expedition: Atmosphere. <i>Elementa</i> , 2022, 10, .	3.2	121
5	Improved Circulation in the Northern Hemisphere by Adjusting Gravity Wave Drag Parameterizations in Seasonal Experiments With ICONâ€”NWP. <i>Earth and Space Science</i> , 2021, 8, e2021EA001676.	2.6	4
6	MOSAiC drift expedition from October 2019 to July 2020: sea ice conditions from space and comparison with previous years. <i>Cryosphere</i> , 2021, 15, 3897-3920.	3.9	45
7	Effects of the tropospheric large-scale circulation on European winter temperatures during the period of amplified Arctic warming. <i>International Journal of Climatology</i> , 2020, 40, 509-529.	3.5	43
8	The MOSAiC ice floe: sediment-laden survivor from the Siberian shelf. <i>Cryosphere</i> , 2020, 14, 2173-2187.	3.9	59
9	Evaluation of the Sea-Ice Simulation in the Upgraded Version of the Coupled Regional Atmosphere-Ocean-Sea Ice Model HIRHAMâ€”NAOSIM 2.0. <i>Atmosphere</i> , 2019, 10, 431.	2.3	9
10	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.	3.5	32
11	The role of stratospheric ozone for Arctic-midlatitude linkages. <i>Scientific Reports</i> , 2019, 9, 7962.	3.3	28
12	Arctic Intense Summer Storms and Their Impacts on Sea Iceâ€”A Regional Climate Modeling Study. <i>Atmosphere</i> , 2019, 10, 218.	2.3	16
13	The Arctic Cloud Puzzle: Using ALOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 841-871.	3.3	145
14	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.	3.3	46
15	Impact on predictability of tropical and mid-latitude cyclones by extra Arctic observations. <i>Scientific Reports</i> , 2018, 8, 12104.	3.3	17
16	South Asian summer monsoon breaks: Process-based diagnostics in HIRHAM5. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4880-4902.	3.3	5
17	Poleward eddy heat flux anomalies associated with recent Arctic sea ice loss. <i>Geophysical Research Letters</i> , 2017, 44, 446-454.	4.0	29
18	Improved forecasts of winter weather extremes over midlatitudes with extra Arctic observations. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 775-787.	2.6	42

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19	Uncertainties in coupled regional Arctic climate simulations associated with the used land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7755-7771.	3.3	6
20	Can preferred atmospheric circulation patterns over the North-Atlantic-Eurasian region be associated with arctic sea ice loss?. <i>Polar Science</i> , 2017, 14, 9-20.	1.2	53
21	Understanding Causes and Effects of Rapid Warming in the Arctic. <i>Eos</i> , 2017, , .	0.1	76
22	The impact of radiosonde data on forecasting sea-ice distribution along the Northern Sea Route during an extremely developed cyclone. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 292-303.	3.8	20
23	Atmospheric winter response to Arctic sea ice changes in reanalysis data and model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7564-7577.	3.3	38
24	Nonlinear response of mid-latitude weather to the changing Arctic. <i>Nature Climate Change</i> , 2016, 6, 992-999.	18.8	268
25	Additional Arctic observations improve weather and sea-ice forecasts for the Northern Sea Route. <i>Scientific Reports</i> , 2015, 5, 16868.	3.3	58
26	Recent changes in Arctic temperature extremes: warm and cold spells during winter and summer. <i>Environmental Research Letters</i> , 2015, 10, 114020.	5.2	28
27	Impact of radiosonde observations on forecasting summertime Arctic cyclone formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 3249-3273.	3.3	51
28	Impacts of Arctic sea ice and continental snow cover changes on atmospheric winter teleconnections. <i>Geophysical Research Letters</i> , 2015, 42, 2367-2377.	4.0	59
29	Arctic budget study of intermember variability using HIRHAM5 ensemble simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9390-9407.	3.3	12
30	Effect of horizontal resolution on ECHAM6-AMIP performance. <i>Climate Dynamics</i> , 2015, 45, 185-211.	3.8	39
31	Cyclones and their possible changes in the Arctic by the end of the twenty first century from regional climate model simulations. <i>Theoretical and Applied Climatology</i> , 2015, 122, 85-96.	2.8	36
32	Recent Arctic amplification and extreme mid-latitude weather. <i>Nature Geoscience</i> , 2014, 7, 627-637.	12.9	1,729
33	Winter Weather Patterns over Northern Eurasia and Arctic Sea Ice Loss. <i>Monthly Weather Review</i> , 2013, 141, 3786-3800.	1.4	69
34	Sensitivity of high-resolution Arctic regional climate model projections to different implementations of land surface processes. <i>Climatic Change</i> , 2012, 111, 197-214.	3.6	16
35	Impact of prescribed Arctic sea ice thickness in simulations of the present and future climate. <i>Climate Dynamics</i> , 2010, 35, 619-633.	3.8	18
36	Validation of the HIRHAM-Simulated Indian Summer Monsoon Circulation. <i>Advances in Meteorology</i> , 2010, 2010, 1-14.	1.6	21

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37	Variability of observed temperature-derived climate indices in the Arctic. <i>Global and Planetary Change</i> , 2009, 69, 214-224.	3.5	9
38	A discontinuous Galerkin method for the shallow water equations in spherical triangular coordinates. <i>Journal of Computational Physics</i> , 2008, 227, 10226-10242.	3.8	46
39	Simulated circum-Arctic climate changes by the end of the 21st century. <i>Global and Planetary Change</i> , 2008, 62, 173-186.	3.5	47
40	Importance of a soil organic layer for Arctic climate: A sensitivity study with an Arctic RCM. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	50
41	Circulation Regimes due to Attractor Merging in Atmospheric Models. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 2029-2044.	1.7	19
42	Toward Understanding the Dynamical Origin of Atmospheric Regime Behavior in a Baroclinic Model. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 887-904.	1.7	24
43	A parallel adaptive barotropic model of the atmosphere. <i>Journal of Computational Physics</i> , 2007, 223, 609-628.	3.8	23
44	Unsteady analytical solutions of the spherical shallow water equations. <i>Journal of Computational Physics</i> , 2005, 210, 535-553.	3.8	44
45	Modelling the Arctic Boundary Layer: An Evaluation of Six Arctic Regional-Scale Models using Data from the Sheba Project™. <i>Boundary-Layer Meteorology</i> , 2005, 117, 337-381.	2.3	131
46	amatos: Parallel adaptive mesh generator for atmospheric and oceanic simulation. <i>Ocean Modelling</i> , 2005, 10, 171-183.	2.4	64
47	High resolution climate simulations over the Arctic. <i>Polar Research</i> , 1999, 18, 143-150.	1.6	7