

Alexandra Jahn

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

3,716
citations

159585

30
h-index

206112

48
g-index

76
all docs

76
docs citations

76
times ranked

5089
citing authors

#	ARTICLE	IF	CITATIONS
1	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019, 9, 102-110.	18.8	407
2	Climate Variability and Change since 850 CE: An Ensemble Approach with the Community Earth System Model. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 735-754.	3.3	382
3	Arctic Sea Ice in CMIP6. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086749.	4.0	304
4	Influence of internal variability on Arctic sea-ice trends. <i>Nature Climate Change</i> , 2015, 5, 86-89.	18.8	235
5	Coherent high- and low-latitude control of the northwest African hydrological balance. <i>Nature Geoscience</i> , 2008, 1, 670-675.	12.9	233
6	Interannual to multi-decadal Arctic sea ice extent trends in a warming world. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	227
7	Community climate simulations to assess avoided impacts in 1.5 and 2°C futures. <i>Earth System Dynamics</i> , 2017, 8, 827-847.	7.1	153
8	How predictable is the timing of a summer ice-free Arctic?. <i>Geophysical Research Letters</i> , 2016, 43, 9113-9120.	4.0	147
9	Twenty-First-Century Arctic Climate Change in CCSM4. <i>Journal of Climate</i> , 2012, 25, 2696-2710.	3.2	112
10	Late-Twentieth-Century Simulation of Arctic Sea Ice and Ocean Properties in the CCSM4. <i>Journal of Climate</i> , 2012, 25, 1431-1452.	3.2	99
11	Implications of Arctic sea ice changes for North Atlantic deep convection and the meridional overturning circulation in CCSM4-CMIP5 simulations. <i>Geophysical Research Letters</i> , 2013, 40, 1206-1211.	4.0	86
12	The CMIP6 Sea-Ice Model Intercomparison Project (SIMIP): understanding sea ice through climate-model simulations. <i>Geoscientific Model Development</i> , 2016, 9, 3427-3446.	3.6	83
13	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. <i>Ocean Modelling</i> , 2016, 100, 141-161.	2.4	81
14	Reduced probability of ice-free summers for 1.5°C compared to 2°C warming. <i>Nature Climate Change</i> , 2018, 8, 409-413.	18.8	80
15	Reduced ENSO variability at the LGM revealed by an isotope-enabled Earth system model. <i>Geophysical Research Letters</i> , 2017, 44, 6984-6992.	4.0	71
16	Nonuniform Contribution of Internal Variability to Recent Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2019, 32, 4039-4053.	3.2	69
17	Hydroclimate footprint of pan-Asian monsoon water isotope during the last deglaciation. <i>Science Advances</i> , 2021, 7, .	10.3	66
18	Arctic Ocean freshwater: How robust are model simulations?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	65

#	ARTICLE	IF	CITATIONS
19	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. <i>Ocean Modelling</i> , 2016, 99, 110-132.	2.4	64
20	An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. <i>Ocean Modelling</i> , 2016, 99, 86-109.	2.4	58
21	Amplified North Atlantic warming in the late Pliocene by changes in Arctic gateways. <i>Geophysical Research Letters</i> , 2017, 44, 957-964.	4.0	53
22	Recent Advances in Arctic Ocean Studies Employing Models from the Arctic Ocean Model Intercomparison Project. <i>Oceanography</i> , 2011, 24, 102-113.	1.0	49
23	Quantifying the effect of vegetation dynamics on the climate of the Last Glacial Maximum. <i>Climate of the Past</i> , 2005, 1, 1-7.	3.4	46
24	A tracer study of the Arctic Ocean's liquid freshwater export variability. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	41
25	Carbon isotopes in the ocean model of the Community Earth System Model (CESM1). <i>Geoscientific Model Development</i> , 2015, 8, 2419-2434.	3.6	39
26	Arctic Sea Ice in Two Configurations of the CESM2 During the 20th and 21st Centuries. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016133.	2.6	39
27	Effect of the large-scale atmospheric circulation on the variability of the Arctic Ocean freshwater export. <i>Climate Dynamics</i> , 2010, 34, 201-222.	3.8	38
28	True to Milankovitch: Glacial Inception in the New Community Climate System Model. <i>Journal of Climate</i> , 2012, 25, 2226-2239.	3.2	38
29	Asynchronous warming and ^{18}O evolution of deep Atlantic water masses during the last deglaciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11075-11080.	7.1	38
30	Can regional climate engineering save the summer Arctic sea ice?. <i>Geophysical Research Letters</i> , 2014, 41, 880-885.	4.0	32
31	Spurious Late Historical Era Warming in CESM2 Driven by Prescribed Biomass Burning Emissions. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	29
32	Definition differences and internal variability affect the simulated Arctic sea ice melt season. <i>Cryosphere</i> , 2019, 13, 1-20.	3.9	27
33	Arctic open-water periods are projected to lengthen dramatically by 2100. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	26
34	Forced Changes in the Arctic Freshwater Budget Emerge in the Early 21st Century. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088854.	4.0	22
35	Assessing the potential capability of reconstructing glacial Atlantic water masses and AMOC using multiple proxies in CESM. <i>Earth and Planetary Science Letters</i> , 2020, 541, 116294.	4.4	22
36	Arctic Ocean Freshwater in CMIP6 Ensembles: Declining Sea Ice, Increasing Ocean Storage and Export. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016930.	2.6	20

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37	Modeling Neodymium Isotopes in the Ocean Component of the Community Earth System Model (CESM1). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 624-640.	3.8	18
38	Asymmetric Cooling of the Atlantic and Pacific Arctic During the Past Two Millennia: A Dual Observationâ€Modeling Study. <i>Geophysical Research Letters</i> , 2018, 45, 12,497.	4.0	15
39	Seasonal transition dates can reveal biases in Arctic sea ice simulations. <i>Cryosphere</i> , 2020, 14, 2977-2997.	3.9	11
40	Investigating the Direct Meltwater Effect in Terrestrial Oxygenâ€Isotope Paleoclimate Records Using an Isotopeâ€Enabled Earth System Model. <i>Geophysical Research Letters</i> , 2017, 44, 12,501.	4.0	10
41	Episodic Neoglacial expansion and rapid 20thâ€century retreat of a small ice cap on Baffin Island, Arctic Canada, and modeled temperature change. <i>Climate of the Past</i> , 2017, 13, 1527-1537.	3.4	10
42	Assessing the Ability of Zonal $\delta^{18}O$ Contrast in Benthic Foraminifera to Reconstruct Deglacial Evolution of Atlantic Meridional Overturning Circulation. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 800-812.	2.9	10
43	Less Surface Sea Ice Melt in the CESM2 Improves Arctic Sea Ice Simulation With Minimal Nonâ€Polar Climate Impacts. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	9
44	Arctic sea ice melt onset favored by an atmospheric pressure pattern reminiscent of the North American-Eurasian Arctic pattern. <i>Climate Dynamics</i> , 2021, 57, 1771-1787.	3.8	8
45	Remineralization dominating the $\delta^{13}C$ decrease in the mid-depth Atlantic during the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117106.	4.4	8
46	Sustained mid-Pliocene warmth led to deep water formation in the North Pacific. <i>Nature Geoscience</i> , 2022, 15, 658-663.	12.9	8
47	Increased Transnational Sea Ice Transport Between Neighboring Arctic States in the 21 st Century. <i>Earth's Future</i> , 2020, 8, e2019EF001284.	6.3	5