

Jens Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

12,318
citations

36203

51
h-index

27345

106
g-index

142
all docs

142
docs citations

142
times ranked

12073
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolved complex coastlines and land-sea contrasts in a high-resolution regional climate model: a comparative study using prescribed and modelled SSTs. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 19951.	0.8	20
2	Spatial extent of precipitation events: when big is getting bigger. <i>Climate Dynamics</i> , 2022, 58, 1861-1875.	1.7	8
3	Robustness of future atmospheric circulation changes over the EURO-CORDEX domain. <i>Climate Dynamics</i> , 2022, 59, 1799-1814.	1.7	8
4	Characteristics of precipitation extremes over the Nordic region: added value of convection-permitting modeling. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 693-711.	1.5	8
5	Asymmetries in Circulation Anomalies Related to the Phases of the North Atlantic Oscillation on Synoptic Time Scales. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	2
6	Identifying robust bias adjustment methods for European extreme precipitation in a multi-model pseudo-reality setting. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 273-290.	1.9	9
7	The transient sensitivity of sea level rise. <i>Ocean Science</i> , 2021, 17, 181-186.	1.3	24
8	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
9	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. <i>Journal of Climate</i> , 2020, 33, 3635-3661.	1.2	230
10	Past perspectives on the present era of abrupt Arctic climate change. <i>Nature Climate Change</i> , 2020, 10, 714-721.	8.1	72
11	Barents-Kara sea ice and European winters in EC-Earth. <i>Climate Dynamics</i> , 2020, 54, 3323-3338.	1.7	10
12	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
13	The future potential for wine production in Scotland under high-end climate change. <i>Regional Environmental Change</i> , 2019, 19, 723-732.	1.4	22
14	Attributing Greenland Warming Patterns to Regional Arctic Sea Ice Loss. <i>Geophysical Research Letters</i> , 2019, 46, 10495-10503.	1.5	10
15	Greenland winter tourism in a changing climate. <i>Journal of Outdoor Recreation and Tourism</i> , 2019, 27, 100224.	1.3	13
16	An ecosystem-wide reproductive failure with more snow in the Arctic. <i>PLoS Biology</i> , 2019, 17, e3000392.	2.6	53
17	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
18	Robustness of European climate projections from dynamical downscaling. <i>Climate Dynamics</i> , 2019, 53, 4857-4869.	1.7	28

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19	Potential future methane emission hot spots in Greenland. <i>Environmental Research Letters</i> , 2019, 14, 035001.	2.2	8
20	Robustness and Scalability of Regional Climate Projections Over Europe. <i>Frontiers in Environmental Science</i> , 2019, 6, .	1.5	24
21	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
22	Normalized US hurricane damage estimates using area of total destruction, 1900~2018. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23942-23946.	3.3	56
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	Positive tipping points in a rapidly warming world. <i>Current Opinion in Environmental Sustainability</i> , 2018, 31, 120-129.	3.1	100
25	21st-century climate change around Kangerlussuaq, west Greenland: From the ice sheet to the shores of Davis Strait. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	0.4	9
26	Robustness of high-resolution regional climate projections for Greenland: a method for uncertainty distillation. <i>Climate Research</i> , 2018, 76, 253-268.	0.4	4
27	Inflated Uncertainty in Multimodel-Based Regional Climate Projections. <i>Geophysical Research Letters</i> , 2017, 44, 11606-11613.	1.5	23
28	Local control on precipitation in a fully coupled climate-hydrology model. <i>Scientific Reports</i> , 2016, 6, 22927.	1.6	42
29	Reconsidering the Quality and Utility of Downscaling. <i>Journal of the Meteorological Society of Japan</i> , 2016, 94A, 31-45.	0.7	34
30	Assessing the influence of groundwater and land surface scheme in the modelling of land surface-atmosphere feedbacks over the FIFE area in Kansas, USA. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	10
31	Climate change impacts on groundwater hydrology – where are the main uncertainties and can they be reduced?. <i>Hydrological Sciences Journal</i> , 2016, 61, 2312-2324.	1.2	31
32	Twenty-First-Century Challenges in Regional Climate Modeling. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES135-ES138.	1.7	29
33	Quantifying Energy and Mass Fluxes Controlling Godthåbsfjord Freshwater Input in a 5-km Simulation (1991~2012)*,+. <i>Journal of Climate</i> , 2015, 28, 3694-3713.	1.2	64
34	Scalability of regional climate change in Europe for high-end scenarios. <i>Climate Research</i> , 2015, 64, 25-38.	0.4	29
35	Effects of extreme global warming in northern Europe. <i>Climate Research</i> , 2015, 64, 3-6.	0.4	3
36	Results from a full coupling of the HIRHAM regional climate model and the MIKE SHE hydrological model for a Danish catchment. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4733-4749.	1.9	34

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37	A framework for testing the ability of models to project climate change and its impacts. <i>Climatic Change</i> , 2014, 122, 271-282.	1.7	104
38	Embedding complex hydrology in the regional climate system – Dynamic coupling across different modelling domains. <i>Advances in Water Resources</i> , 2014, 74, 166-184.	1.7	38
39	Atlas of Global and Regional Climate Projections. , 2014, , 1311-1394.		52
40	Climate Phenomena and their Relevance for Future Regional Climate Change. , 2014, , 1217-1308.		202
41	Role of model initialization for projections of 21st-century Greenland ice sheet mass loss. <i>Journal of Glaciology</i> , 2014, 60, 782-794.	1.1	22
42	Summary for Policymakers. , 2014, , 45-64.		1
43	The role of uncertainty in climate change adaptation strategies – A Danish water management example. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2013, 18, 337-359.	1.0	92
44	On the role of domain size and resolution in the simulations with the HIRHAM region climate model. <i>Climate Dynamics</i> , 2013, 40, 2903-2918.	1.7	28
45	How well do environmental archives of atmospheric mercury deposition in the Arctic reproduce rates and trends depicted by atmospheric models and measurements?. <i>Science of the Total Environment</i> , 2013, 452-453, 196-207.	3.9	29
46	Improved confidence in regional climate model simulations of precipitation evaluated using drought statistics from the ENSEMBLES models. <i>Climate Dynamics</i> , 2013, 40, 155-173.	1.7	22
47	Downscaled climate change projections with uncertainty assessment over India using a high resolution multi-model approach. <i>Science of the Total Environment</i> , 2013, 468-469, S18-S30.	3.9	138
48	Assessment of robustness and significance of climate change signals for an ensemble of distribution-based scaled climate projections. <i>Journal of Hydrology</i> , 2013, 486, 479-493.	2.3	52
49	Dynamical Downscaling with Reinitializations: A Method to Generate Finescale Climate Datasets Suitable for Impact Studies. <i>Journal of Hydrometeorology</i> , 2013, 14, 1159-1174.	0.7	50
50	Emerging regional climate change signals for Europe under varying large-scale circulation conditions. <i>Climate Research</i> , 2013, 56, 103-119.	0.4	55
51	Spatial-Scale Characteristics of Precipitation Simulated by Regional Climate Models and the Implications for Hydrological Modeling. <i>Journal of Hydrometeorology</i> , 2012, 13, 1817-1835.	0.7	27
52	Climate change impacts on natural toxins in food production systems, exemplified by deoxynivalenol in wheat and diarrhetic shellfish toxins. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012, 29, 1647-1659.	1.1	25
53	Very high resolution regional climate model simulations over Greenland: Identifying added value. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	119
54	Selection of climate change scenario data for impact modelling. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012, 29, 1502-1513.	1.1	17

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55	Temperature dependent climate projection deficiencies in CMIP5 models. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	59
56	Arctic sea ice reduction and European cold winters in CMIP5 climate change experiments. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	60
57	Arctic RCM simulations of temperature and precipitation derived indices relevant to future frozen ground conditions. <i>Global and Planetary Change</i> , 2012, 80-81, 136-148.	1.6	12
58	Greenland climate change: from the past to the future. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2012, 3, 427-449.	3.6	28
59	Overestimation of Mediterranean summer temperature projections due to model deficiencies. <i>Nature Climate Change</i> , 2012, 2, 433-436.	8.1	193
60	Precipitation manipulation experiments – challenges and recommendations for the future. <i>Ecology Letters</i> , 2012, 15, 899-911.	3.0	411
61	Comparison of Hydrological Simulations of Climate Change Using Perturbation of Observations and Distribution-Based Scaling. <i>Vadose Zone Journal</i> , 2011, 10, 136-150.	1.3	42
62	Streamflow Data from Small Basins: A Challenging Test to High-Resolution Regional Climate Modeling. <i>Journal of Hydrometeorology</i> , 2011, 12, 900-912.	0.7	41
63	Permafrost degradation risk zone assessment using simulation models. <i>Cryosphere</i> , 2011, 5, 1043-1056.	1.5	43
64	Can Regional Climate Models Represent the Indian Monsoon?. <i>Journal of Hydrometeorology</i> , 2011, 12, 849-868.	0.7	138
65	Surface Mass Balance and Runoff Modeling Using HIRHAM4 RCM at Kangerlussuaq (Søndre Tj) ETQq1 1 0.784314,rgBT /Overlock 10	1.2	35
66	Decision-Support System for Urban Air Pollution under Future Climate Conditions. <i>IFIP Advances in Information and Communication Technology</i> , 2011, , 641-650.	0.5	0
67	Improved confidence in climate change projections of precipitation further evaluated using daily statistics from ENSEMBLES models. <i>Climate Dynamics</i> , 2010, 35, 1509-1520.	1.7	101
68	An intercomparison of regional climate model data for hydrological impact studies in Denmark. <i>Journal of Hydrology</i> , 2010, 380, 406-419.	2.3	69
69	EC-Earth. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1357-1364.	1.7	474
70	Weight assignment in regional climate models. <i>Climate Research</i> , 2010, 44, 179-194.	0.4	297
71	Greenland Ice Sheet Surface Mass-Balance Modeling in a 131-Yr Perspective, 1950–2080. <i>Journal of Hydrometeorology</i> , 2010, 11, 3-25.	0.7	70
72	Daily and monthly temperature and precipitation statistics as performance indicators for regional climate models. <i>Climate Research</i> , 2010, 44, 135-150.	0.4	150

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73	Greenland Ice Sheet surface mass balance modelling and freshwater flux for 2007, and in a 1995–2007 perspective. <i>Hydrological Processes</i> , 2009, 23, 2470-2484.	1.1	52
74	Improved confidence in climate change projections of precipitation evaluated using daily statistics from the PRUDENCE ensemble. <i>Climate Dynamics</i> , 2009, 32, 1097-1106.	1.7	93
75	Seasonal characteristics of the relationship between daily precipitation intensity and surface temperature. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	208
76	An evaluation of Arctic cloud and radiation processes during the SHEBA year: simulation results from eight Arctic regional climate models. <i>Climate Dynamics</i> , 2008, 30, 203-223.	1.7	66
77	On the need for bias correction of regional climate change projections of temperature and precipitation. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	566
78	Arctic Climate and Climate Change with a Focus on Greenland. <i>Advances in Ecological Research</i> , 2008, , 13-43.	1.4	64
79	Global Climate Model Performance over Alaska and Greenland. <i>Journal of Climate</i> , 2008, 21, 6156-6174.	1.2	179
80	Impacts of climate change on air pollution levels in the Northern Hemisphere with special focus on Europe and the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3337-3367.	1.9	76
81	A Possible Constraint on Regional Precipitation Intensity Changes under Global Warming. <i>Journal of Hydrometeorology</i> , 2007, 8, 1382-1396.	0.7	65
82	Using dynamical downscaling to close the gap between global change scenarios and local permafrost dynamics. <i>Global and Planetary Change</i> , 2007, 56, 203-214.	1.6	34
83	Climate with care. <i>New Scientist</i> , 2007, 193, 27.	0.0	0
84	A summary of the PRUDENCE model projections of changes in European climate by the end of this century. <i>Climatic Change</i> , 2007, 81, 7-30.	1.7	936
85	Evaluating the performance and utility of regional climate models: the PRUDENCE project. <i>Climatic Change</i> , 2007, 81, 1-6.	1.7	606
86	An inter-comparison of regional climate models for Europe: model performance in present-day climate. <i>Climatic Change</i> , 2007, 81, 31-52.	1.7	602
87	An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections. <i>Climatic Change</i> , 2007, 81, 53-70.	1.7	616
88	A dynamical link between the Arctic and the global climate system. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	71
89	Influence of various forcings on global climate in historical times using a coupled atmosphere–ocean general circulation model. <i>Climate Dynamics</i> , 2006, 26, 1-15.	1.7	60
90	Evaluation of an ensemble of Arctic regional climate models: spatiotemporal fields during the SHEBA year. <i>Climate Dynamics</i> , 2006, 26, 459-472.	1.7	65

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91	Climate variability and physical forcing of the food webs and the carbon budget on panarctic shelves. <i>Progress in Oceanography</i> , 2006, 71, 145-181.	1.5	220
92	Global high resolution versus Limited Area Model climate change projections over Europe: quantifying confidence level from PRUDENCE results. <i>Climate Dynamics</i> , 2005, 25, 653-670.	1.7	191
93	Combining weather prediction and remote sensing data for the calculation of evapotranspiration rates: application to Denmark. <i>International Journal of Remote Sensing</i> , 2004, 25, 2553-2574.	1.3	7
94	Modeling the Location of the Forest Line in Northeast European Russia with Remotely Sensed Vegetation and GIS-Based Climate and Terrain Data. <i>Arctic, Antarctic, and Alpine Research</i> , 2004, 36, 314-322.	0.4	18
95	Discussions of Arctic climate feedback mechanisms. <i>Eos</i> , 2004, 85, 147.	0.1	0
96	The impact of Greenland's deglaciation on the Arctic circulation. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	22
97	Intensification of extreme European summer precipitation in a warmer climate. <i>Global and Planetary Change</i> , 2004, 44, 107-117.	1.6	137
98	Modelling of Mercury in the Arctic with the Danish Eulerian Hemispheric Model. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2251-2257.	1.9	96
99	Effective Roughness Calculated from Satellite-Derived Land Cover Maps and Hedge-Information used in a Weather Forecasting Model. <i>Boundary-Layer Meteorology</i> , 2003, 109, 227-254.	1.2	41
100	Severe summertime flooding in Europe. <i>Nature</i> , 2003, 421, 805-806.	13.7	592
101	Improved hydrological modeling for remote regions using a combination of observed and simulated precipitation data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	14
102	Net accumulation of the Greenland ice sheet: High resolution modeling of climate changes. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	30
103	Daily precipitation statistics in regional climate models: Evaluation and intercomparison for the European Alps. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	337
104	Hydrological Processes in Regional Climate Model Simulations of the Central United States Flood of June–July 1993. <i>Journal of Hydrometeorology</i> , 2003, 4, 584-598.	0.7	43
105	Regional Climate Scenarios for use in Nordic Water Resources Studies. <i>Hydrology Research</i> , 2003, 34, 399-412.	1.1	23
106	PRUDENCE employs new methods to assess European climate change. <i>Eos</i> , 2002, 83, 147.	0.1	183
107	Impact of global warming on permafrost conditions in a coupled GCM. <i>Geophysical Research Letters</i> , 2002, 29, 10-1.	1.5	142
108	Heavy precipitation occurrence in Scandinavia investigated with a Regional Climate Model. <i>Advances in Global Change Research</i> , 2002, , 101-112.	1.6	1

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109	Recent Greenland Accumulation Estimated from Regional Climate Model Simulations and Ice Core Analysis*. Journal of Climate, 2002, 15, 2821-2832.	1.2	59
110	A synthesis of regional climate change simulations-A Scandinavian perspective. Geophysical Research Letters, 2001, 28, 1003-1006.	1.5	83
111	Evaluation of uncertainties in regional climate change simulations. Journal of Geophysical Research, 2001, 106, 17735-17751.	3.3	95
112	Emerging patterns of simulated regional climatic changes for the 21st century due to anthropogenic forcings. Geophysical Research Letters, 2001, 28, 3317-3320.	1.5	129
113	High-resolution regional climate model validation and permafrost simulation for the East European Russian Arctic. Journal of Geophysical Research, 2000, 105, 29647-29658.	3.3	48
114	Arctic winter climate and its interannual variations simulated by a regional climate model. Journal of Geophysical Research, 1999, 104, 19027-19038.	3.3	22
115	High resolution climate simulations over the Arctic. Polar Research, 1999, 18, 143-150.	1.6	24
116	Project to Intercompare Regional Climate Simulations (PIRCS): Description and initial results. Journal of Geophysical Research, 1999, 104, 19443-19461.	3.3	169
117	High resolution climate simulations over the Arctic. Polar Research, 1999, 18, 143-150.	1.6	7
118	Very High-Resolution Regional Climate Simulations over Scandinaviaâ€”Present Climate. Journal of Climate, 1998, 11, 3204-3229.	1.2	262
119	Simulation and validation of Arctic radiation and clouds in a regional climate model. Journal of Geophysical Research, 1997, 102, 29833-29847.	3.3	29
120	Validation of present-day regional climate simulations over Europe: LAM simulations with observed boundary conditions. Climate Dynamics, 1997, 13, 489-506.	1.7	160
121	Regional climate model of the Arctic atmosphere. Journal of Geophysical Research, 1996, 101, 23401-23422.	3.3	94
122	A Simple Framework for Testing the Quality of Atmospheric Limited-Area Models. Monthly Weather Review, 1995, 123, 444-459.	0.5	9
123	Technical Summary. , 0, , 27-158.		0
124	Influence of retreating Barentsâ€”Kara sea ice on the periodicity of El NiÃ±oâ€”Southern Oscillation. International Journal of Climatology, 0, , .	1.5	2