Jens Christensen

List of Publications by Year
in descending order

124 papers	12,318 citations	36303 51 h-index	27406 106 g-index
142 all docs	142 docs citations	142 times ranked	12073 citing authors

#	Article	IF	Citations
1	A summary of the PRUDENCE model projections of changes in European climate by the end of this century. Climatic Change, 2007, 81, 7-30.	3.6	936
2	An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections. Climatic Change, 2007, 81, 53-70.	3.6	616
3	Evaluating the performance and utility of regional climate models: the PRUDENCE project. Climatic Change, 2007, 81, 1-6.	3.6	606
4	An inter-comparison of regional climate models for Europe: model performance in present-day climate. Climatic Change, 2007, 81, 31-52.	3.6	602
5	Severe summertime flooding in Europe. Nature, 2003, 421, 805-806.	27.8	592
6	On the need for bias correction of regional climate change projections of temperature and precipitation. Geophysical Research Letters, 2008, 35, .	4.0	566
7	EC-Earth. Bulletin of the American Meteorological Society, 2010, 91, 1357-1364.	3.3	474
8	Precipitation manipulation experiments â€“ challenges and recommendations for the future. Ecology Letters, 2012, 15, 899-911.	6.4	411
9	Daily precipitation statistics in regional climate models: Evaluation and intercomparison for the European Alps. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	337
10	Weight assignment in regional climate models. Climate Research, 2010, 44, 179-194.	1.1	297
11	Very High-Resolution Regional Climate Simulations over Scandinaviaâ€”Present Climate. Journal of Climate, 1998, 11, 3204-3229.	3.2	262
12	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	3.2	230
13	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. Regional Environmental Change, 2020, 20, 1.	2.9	227
14	Climate variability and physical forcing of the food webs and the carbon budget on panarctic shelves. Progress in Oceanography, 2006, 71, 145-181.	3.2	220
15	Seasonal characteristics of the relationship between daily precipitation intensity and surface temperature. Journal of Geophysical Research, 2009, 114, .	3.3	208
16	Climate Phenomena and their Relevance for Future Regional Climate Change. , 2014, , 1217-1308.		202
17	Overestimation of Mediterranean summer temperature projections due to model deficiencies. Nature Climate Change, 2012, 2, 433-436.	18.8	193
18	Global high resolution versus Limited Area Model climate change projections over Europe: quantifying confidence level from PRUDENCE results. Climate Dynamics, 2005, 25, 653-670.	3.8	191

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19	PRUDENCE employs new methods to assess European climate change. Eos, 2002, 83, 147.	0.1	183
20	Global Climate Model Performance over Alaska and Greenland. Journal of Climate, 2008, 21, 6156-6174.	3.2	179
21	Project to Intercompare Regional Climate Simulations (PIRCS): Description and initial results. Journal of Geophysical Research, 1999, 104, 19443-19461.	3.3	169
22	Validation of present-day regional climate simulations over Europe: LAM simulations with observed boundary conditions. Climate Dynamics, 1997, 13, 489-506.	3.8	160
23	Daily and monthly temperature and precipitation statistics as performance indicators for regional climate models. Climate Research, 2010, 44, 135-150.	1.1	150
24	Impact of global warming on permafrost conditions in a coupled GCM. Geophysical Research Letters, 2002, 29, 10-1.	4.0	142
25	Can Regional Climate Models Represent the Indian Monsoon?. Journal of Hydrometeorology, 2011, 12, 849-868.	1.9	138
26	Downscaled climate change projections with uncertainty assessment over India using a high resolution multi-model approach. Science of the Total Environment, 2013, 468-469, S18-S30.	8.0	138
27	Intensification of extreme European summer precipitation in a warmer climate. Global and Planetary Change, 2004, 44, 107-117.	3.5	137
28	Emerging patterns of simulated regional climatic changes for the 21st century due to anthropogenic forcings. Geophysical Research Letters, 2001, 28, 3317-3320.	4.0	129
29	Very high resolution regional climate model simulations over Greenland: Identifying added value. Journal of Geophysical Research, 2012, 117, .	3.3	119
30	A framework for testing the ability of models to project climate change and its impacts. Climatic Change, 2014, 122, 271-282.	3.6	104
31	Improved confidence in climate change projections of precipitation further evaluated using daily statistics from ENSEMBLES models. Climate Dynamics, 2010, 35, 1509-1520.	3.8	101
32	Positive tipping points in a rapidly warming world. Current Opinion in Environmental Sustainability, 2018, 31, 120-129.	6.3	100
33	Modelling of Mercury in the Arctic with the Danish Eulerian Hemispheric Model. Atmospheric Chemistry and Physics, 2004, 4, 2251-2257.	4.9	96
34	Evaluation of uncertainties in regional climate change simulations. Journal of Geophysical Research, 2001, 106, 17735-17751.	3.3	95
35	Regional climate model of the Arctic atmosphere. Journal of Geophysical Research, 1996, 101, 23401-23422.	3.3	94
36	Improved confidence in climate change projections of precipitation evaluated using daily statistics from the PRUDENCE ensemble. Climate Dynamics, 2009, 32, 1097-1106.	3.8	93

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37	The role of uncertainty in climate change adaptation strategiesâ€"A Danish water management example. Mitigation and Adaptation Strategies for Global Change, 2013, 18, 337-359.	2.1	92
38	A synthesis of regional climate change simulations-A Scandinavian perspective. Geophysical Research Letters, 2001, 28, 1003-1006.	4.0	83
39	Impacts of climate change on air pollution levels in the Northern Hemisphere with special focus on Europe and the Arctic. Atmospheric Chemistry and Physics, 2008, 8, 3337-3367.	4.9	76
40	Past perspectives on the present era of abrupt Arctic climate change. Nature Climate Change, 2020, 10, 714-721.	18.8	72
41	A dynamical link between the Arctic and the global climate system. Geophysical Research Letters, 2006, 33, .	4.0	71
42	Greenland Ice Sheet Surface Mass-Balance Modeling in a 131-Yr Perspective, 1950â€"2080. Journal of Hydrometeorology, 2010, 11, 3-25.	1.9	70
43	An intercomparison of regional climate model data for hydrological impact studies in Denmark. Journal of Hydrology, 2010, 380, 406-419.	5.4	69
44	An evaluation of Arctic cloud and radiation processes during the SHEBA year: simulation results from eight Arctic regional climate models. Climate Dynamics, 2008, 30, 203-223.	3.8	66
45	Evaluation of an ensemble of Arctic regional climate models: spatiotemporal fields during the SHEBA year. Climate Dynamics, 2006, 26, 459-472.	3.8	65
46	A Possible Constraint on Regional Precipitation Intensity Changes under Global Warming. Journal of Hydrometeorology, 2007, 8, 1382-1396.	1.9	65
47	Arctic Climate and Climate Change with a Focus on Greenland. Advances in Ecological Research, 2008, , 13-43.	2.7	64
48	Quantifying Energy and Mass Fluxes Controlling GodthÃ¥bsfjord Freshwater Input in a 5-km Simulation (1991â€"2012)*,+. Journal of Climate, 2015, 28, 3694-3713.	3.2	64
49	Influence of various forcings on global climate in historical times using a coupled atmosphereâ€"ocean general circulation model. Climate Dynamics, 2006, 26, 1-15.	3.8	60
50	Arctic sea ice reduction and European cold winters in CMIP5 climate change experiments. Geophysical Research Letters, 2012, 39, .	4.0	60
51	Temperature dependent climate projection deficiencies in CMIP5 models. Geophysical Research Letters, 2012, 39, .	4.0	59
52	Recent Greenland Accumulation Estimated from Regional Climate Model Simulations and Ice Core Analysis*. Journal of Climate, 2002, 15, 2821-2832.	3.2	59
53	Normalized US hurricane damage estimates using area of total destruction, 1900â"2018. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23942-23946.	7.1	56
54	Emerging regional climate change signals forÂEurope under varying large-scale circulation conditions. Climate Research, 2013, 56, 103-119.	1.1	55

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55	An ecosystem-wide reproductive failure with more snow in the Arctic. PLoS Biology, 2019, 17, e3000392.	5.6	53
56	Greenland Ice Sheet surface massâ€balance modelling and freshwater flux for 2007, and in a 1995â€“2007 perspective. Hydrological Processes, 2009, 23, 2470-2484.	2.6	52
57	Assessment of robustness and significance of climate change signals for an ensemble of distribution-based scaled climate projections. Journal of Hydrology, 2013, 486, 479-493.	5.4	52
58	Atlas of Global and Regional Climate Projections. , 2014, , 1311-1394.		52
59	Dynamical Downscaling with Reinitializations: A Method to Generate Finescale Climate Datasets Suitable for Impact Studies. Journal of Hydrometeorology, 2013, 14, 1159-1174.	1.9	50
60	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
61	Cyclone Activity in the Arctic From an Ensemble of Regional Climate Models (Arctic CORDEX). Journal of Geophysical Research D: Atmospheres, 2018, 123, 2537-2554.	3.3	46
62	Hydrological Processes in Regional Climate Model Simulations of the Central United States Flood of Juneâ€“July 1993. Journal of Hydrometeorology, 2003, 4, 584-598.	1.9	43
63	Permafrost degradation risk zone assessment using simulation models. Cryosphere, 2011, 5, 1043-1056.	3.9	43
64	Comparison of Hydrological Simulations of Climate Change Using Perturbation of Observations and Distributionâ€Based Scaling. Vadose Zone Journal, 2011, 10, 136-150.	2.2	42
65	Local control on precipitation in a fully coupled climate-hydrology model. Scientific Reports, 2016, 6, 22927.	3.3	42
66	Effective Roughness Calculated from Satellite-Derived Land Cover Maps and Hedge-Information used in a Weather Forecasting Model. Boundary-Layer Meteorology, 2003, 109, 227-254.	2.3	41
67	Streamflow Data from Small Basins: A Challenging Test to High-Resolution Regional Climate Modeling. Journal of Hydrometeorology, 2011, 12, 900-912.	1.9	41
68	Embedding complex hydrology in the regional climate system â€“ Dynamic coupling across different modelling domains. Advances in Water Resources, 2014, 74, 166-184.	3.8	38
69	Surface Mass Balance and Runoff Modeling Using HIRHAM4 RCM at Kangerlussuaq (SÃ¸ndre) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	35
70	Using dynamical downscaling to close the gap between global change scenarios and local permafrost dynamics. Global and Planetary Change, 2007, 56, 203-214.	3.5	34
71	Results from a full coupling of the HIRHAM regional climate model and the MIKE SHE hydrological model for a Danish catchment. Hydrology and Earth System Sciences, 2014, 18, 4733-4749.	4.9	34
72	Reconsidering the Quality and Utility of Downscaling. Journal of the Meteorological Society of Japan, 2016, 94A, 31-45.	1.8	34

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73	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.	3.5	32
74	Climate change impacts on groundwater hydrology â€“ where are the main uncertainties and can they be reduced?. Hydrological Sciences Journal, 2016, 61, 2312-2324.	2.6	31
75	Net accumulation of the Greenland ice sheet: High resolution modeling of climate changes. Geophysical Research Letters, 2003, 30, .	4.0	30
76	Simulation and validation of Arctic radiation and clouds in a regional climate model. Journal of Geophysical Research, 1997, 102, 29833-29847.	3.3	29
77	How well do environmental archives of atmospheric mercury deposition in the Arctic reproduce rates and trends depicted by atmospheric models and measurements?. Science of the Total Environment, 2013, 452-453, 196-207.	8.0	29
78	Twenty-First-Century Challenges in Regional Climate Modeling. Bulletin of the American Meteorological Society, 2015, 96, ES135-ES138.	3.3	29
79	Scalability of regional climate change in Europe for high-end scenarios. Climate Research, 2015, 64, 25-38.	1.1	29
80	Greenland climate change: from the past to the future. Wiley Interdisciplinary Reviews: Climate Change, 2012, 3, 427-449.	8.1	28
81	On the role of domain size and resolution in the simulations with the HIRHAM region climate model. Climate Dynamics, 2013, 40, 2903-2918.	3.8	28
82	Robustness of European climate projections from dynamical downscaling. Climate Dynamics, 2019, 53, 4857-4869.	3.8	28
83	Spatial-Scale Characteristics of Precipitation Simulated by Regional Climate Models and the Implications for Hydrological Modeling. Journal of Hydrometeorology, 2012, 13, 1817-1835.	1.9	27
84	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.	3.5	26
85	Climate change impacts on natural toxins in food production systems, exemplified by deoxynivalenol in wheat and diarrhetic shellfish toxins. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1647-1659.	2.3	25
86	High resolution climate simulations over the Arctic. Polar Research, 1999, 18, 143-150.	1.6	24
87	Robustness and Scalability of Regional Climate Projections Over Europe. Frontiers in Environmental Science, 2019, 6, .	3.3	24
88	The transient sensitivity of sea level rise. Ocean Science, 2021, 17, 181-186.	3.4	24
89	Inflated Uncertainty in Multimodelâ€Based Regional Climate Projections. Geophysical Research Letters, 2017, 44, 11606-11613.	4.0	23
90	Regional Climate Scenarios for use in Nordic Water Resources Studies. Hydrology Research, 2003, 34, 399-412.	2.7	23

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91	Arctic winter climate and its interannual variations simulated by a regional climate model. Journal of Geophysical Research, 1999, 104, 19027-19038.	3.3	22
92	The impact of Greenland's deglaciation on the Arctic circulation. Geophysical Research Letters, 2004, 31, .	4.0	22
93	Improved confidence in regional climate model simulations of precipitation evaluated using drought statistics from the ENSEMBLES models. Climate Dynamics, 2013, 40, 155-173.	3.8	22
94	Role of model initialization for projections of 21st-century Greenland ice sheet mass loss. Journal of Glaciology, 2014, 60, 782-794.	2.2	22
95	The future potential for wine production in Scotland under high-end climate change. Regional Environmental Change, 2019, 19, 723-732.	2.9	22
96	Resolved complex coastlines and landâ€“sea contrasts in a high-resolution regional climate model: a comparative study using prescribed and modelled SSTs. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 65, 19951.	1.7	20
97	Modeling the Location of the Forest Line in Northeast European Russia with Remotely Sensed Vegetation and GIS-Based Climate and Terrain Data. Arctic, Antarctic, and Alpine Research, 2004, 36, 314-322.	1.1	18
98	Selection of climate change scenario data for impact modelling. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2012, 29, 1502-1513.	2.3	17
99	Improved hydrological modeling for remote regions using a combination of observed and simulated precipitation data. Journal of Geophysical Research, 2003, 108, .	3.3	14
100	Greenland winter tourism in a changing climate. Journal of Outdoor Recreation and Tourism, 2019, 27, 100224.	2.9	13
101	Arctic RCM simulations of temperature and precipitation derived indices relevant to future frozen ground conditions. Global and Planetary Change, 2012, 80-81, 136-148.	3.5	12
102	Assessing the influence of groundwater and land surface scheme in the modelling of land surfaceâ€“atmosphere feedbacks over the FIFE area in Kansas, USA. Environmental Earth Sciences, 2016, 75, 1.	2.7	10
103	Attributing Greenland Warming Patterns to Regional Arctic Sea Ice Loss. Geophysical Research Letters, 2019, 46, 10495-10503.	4.0	10
104	Barents-Kara sea ice and European winters in EC-Earth. Climate Dynamics, 2020, 54, 3323-3338.	3.8	10
105	A Simple Framework for Testing the Quality of Atmospheric Limited-Area Models. Monthly Weather Review, 1995, 123, 444-459.	1.4	9
106	21st-century climate change around Kangerlussuaq, west Greenland: From the ice sheet to the shores of Davis Strait. Arctic, Antarctic, and Alpine Research, 2018, 50, .	1.1	9
107	Identifying robust bias adjustment methods for European extreme precipitation in a multi-model pseudo-reality setting. Hydrology and Earth System Sciences, 2021, 25, 273-290.	4.9	9
108	Potential future methane emission hot spots in Greenland. Environmental Research Letters, 2019, 14, 035001.	5.2	8

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109	Spatial extent of precipitation events: when big is getting bigger. Climate Dynamics, 2022, 58, 1861-1875.	3.8	8
110	Robustness of future atmospheric circulation changes over the EURO-CORDEX domain. Climate Dynamics, 2022, 59, 1799-1814.	3.8	8
111	Characteristics of precipitation extremes over the Nordic region: added value of convection-permitting modeling. Natural Hazards and Earth System Sciences, 2022, 22, 693-711.	3.6	8
112	Combining weather prediction and remote sensing data for the calculation of evapotranspiration rates: application to Denmark. International Journal of Remote Sensing, 2004, 25, 2553-2574.	2.9	7
113	High resolution climate simulations over the Arctic. Polar Research, 1999, 18, 143-150.	1.6	7
114	Robustness of high-resolution regional climate projections for Greenland: a method for uncertainty distillation. Climate Research, 2018, 76, 253-268.	1.1	4
115	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.	0.3	3
116	Effects of extreme global warming in northern Europe. Climate Research, 2015, 64, 3-6.	1.1	3
117	Influence of retreating Barentsâ€“Kara sea ice on the periodicity of El <scp>NiÃ±oâ€“Southern</scp> Oscillation. International Journal of Climatology, 0, , .	3.5	2
118	Asymmetries in Circulation Anomalies Related to the Phases of the North Atlantic Oscillation on Synoptic Time Scales. Geophysical Research Letters, 2022, 49, .	4.0	2
119	Heavy precipitation occurrence in Scandinavia investigated with a Regional Climate Model. Advances in Global Change Research, 2002, , 101-112.	1.6	1
120	Summary for Policymakers. , 2014, , 45-64.		1
121	Technical Summary. , 0, , 27-158.		0
122	Discussions of Arctic climate feedback mechanisms. Eos, 2004, 85, 147.	0.1	0
123	Climate with care. New Scientist, 2007, 193, 27.	0.0	0
124	Decision-Support System for Urban Air Pollution under Future Climate Conditions. IFIP Advances in Information and Communication Technology, 2011, , 641-650.	0.7	0