

Jens Christensen

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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. | 1.7 | 20 |
| 2 | Spatial extent of precipitation events: when big is getting bigger. <i>Climate Dynamics</i> , 2022, 58, 1861-1875. | 3.8 | 8 |
| 3 | Robustness of future atmospheric circulation changes over the EURO-CORDEX domain. <i>Climate Dynamics</i> , 2022, 59, 1799-1814. | 3.8 | 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. | 3.6 | 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, . | 4.0 | 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. | 4.9 | 9 |
| 7 | The transient sensitivity of sea level rise. <i>Ocean Science</i> , 2021, 17, 181-186. | 3.4 | 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. | 3.5 | 26 |
| 9 | Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. <i>Journal of Climate</i> , 2020, 33, 3635-3661. | 3.2 | 230 |
| 10 | Past perspectives on the present era of abrupt Arctic climate change. <i>Nature Climate Change</i> , 2020, 10, 714-721. | 18.8 | 72 |
| 11 | Barents-Kara sea ice and European winters in EC-Earth. <i>Climate Dynamics</i> , 2020, 54, 3323-3338. | 3.8 | 10 |
| 12 | Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1. | 2.9 | 227 |
| 13 | The future potential for wine production in Scotland under high-end climate change. <i>Regional Environmental Change</i> , 2019, 19, 723-732. | 2.9 | 22 |
| 14 | Attributing Greenland Warming Patterns to Regional Arctic Sea Ice Loss. <i>Geophysical Research Letters</i> , 2019, 46, 10495-10503. | 4.0 | 10 |
| 15 | Greenland winter tourism in a changing climate. <i>Journal of Outdoor Recreation and Tourism</i> , 2019, 27, 100224. | 2.9 | 13 |
| 16 | An ecosystem-wide reproductive failure with more snow in the Arctic. <i>PLoS Biology</i> , 2019, 17, e3000392. | 5.6 | 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. | 3.5 | 32 |
| 18 | Robustness of European climate projections from dynamical downscaling. <i>Climate Dynamics</i> , 2019, 53, 4857-4869. | 3.8 | 28 |

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|----|--|-----|-----------|
| 19 | Potential future methane emission hot spots in Greenland. <i>Environmental Research Letters</i> , 2019, 14, 035001. | 5.2 | 8 |
| 20 | Robustness and Scalability of Regional Climate Projections Over Europe. <i>Frontiers in Environmental Science</i> , 2019, 6, . | 3.3 | 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. | 0.3 | 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. | 7.1 | 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. | 3.3 | 46 |
| 24 | Positive tipping points in a rapidly warming world. <i>Current Opinion in Environmental Sustainability</i> , 2018, 31, 120-129. | 6.3 | 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, . | 1.1 | 9 |
| 26 | Robustness of high-resolution regional climate projections for Greenland: a method for uncertainty distillation. <i>Climate Research</i> , 2018, 76, 253-268. | 1.1 | 4 |
| 27 | Inflated Uncertainty in Multimodel-Based Regional Climate Projections. <i>Geophysical Research Letters</i> , 2017, 44, 11606-11613. | 4.0 | 23 |
| 28 | Local control on precipitation in a fully coupled climate-hydrology model. <i>Scientific Reports</i> , 2016, 6, 22927. | 3.3 | 42 |
| 29 | Reconsidering the Quality and Utility of Downscaling. <i>Journal of the Meteorological Society of Japan</i> , 2016, 94A, 31-45. | 1.8 | 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. | 2.7 | 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. | 2.6 | 31 |
| 32 | Twenty-First-Century Challenges in Regional Climate Modeling. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES135-ES138. | 3.3 | 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. | 3.2 | 64 |
| 34 | Scalability of regional climate change in Europe for high-end scenarios. <i>Climate Research</i> , 2015, 64, 25-38. | 1.1 | 29 |
| 35 | Effects of extreme global warming in northern Europe. <i>Climate Research</i> , 2015, 64, 3-6. | 1.1 | 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. | 4.9 | 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. | 3.6 | 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. | 3.8 | 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. | 2.2 | 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. | 2.1 | 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. | 3.8 | 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. | 8.0 | 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. | 3.8 | 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. | 8.0 | 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. | 5.4 | 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. | 1.9 | 50 |
| 50 | Emerging regional climate change signals for Europe under varying large-scale circulation conditions. <i>Climate Research</i> , 2013, 56, 103-119. | 1.1 | 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. | 1.9 | 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. | 2.3 | 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. | 2.3 | 17 |

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|----|---|------|-----------|
| 55 | Temperature dependent climate projection deficiencies in CMIP5 models. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 59 |
| 56 | Arctic sea ice reduction and European cold winters in CMIP5 climate change experiments. <i>Geophysical Research Letters</i> , 2012, 39, . | 4.0 | 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. | 3.5 | 12 |
| 58 | Greenland climate change: from the past to the future. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2012, 3, 427-449. | 8.1 | 28 |
| 59 | Overestimation of Mediterranean summer temperature projections due to model deficiencies. <i>Nature Climate Change</i> , 2012, 2, 433-436. | 18.8 | 193 |
| 60 | Precipitation manipulation experiments – challenges and recommendations for the future. <i>Ecology Letters</i> , 2012, 15, 899-911. | 6.4 | 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. | 2.2 | 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. | 1.9 | 41 |
| 63 | Permafrost degradation risk zone assessment using simulation models. <i>Cryosphere</i> , 2011, 5, 1043-1056. | 3.9 | 43 |
| 64 | Can Regional Climate Models Represent the Indian Monsoon?. <i>Journal of Hydrometeorology</i> , 2011, 12, 849-868. | 1.9 | 138 |
| 65 | Surface Mass Balance and Runoff Modeling Using HIRHAM4 RCM at Kangerlussuaq (Søndre Tj) ETQq1 1 0.784314,rgBT /Overlock 10 | 3.2 | 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. | 0.7 | 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. | 3.8 | 101 |
| 68 | An intercomparison of regional climate model data for hydrological impact studies in Denmark. <i>Journal of Hydrology</i> , 2010, 380, 406-419. | 5.4 | 69 |
| 69 | EC-Earth. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 1357-1364. | 3.3 | 474 |
| 70 | Weight assignment in regional climate models. <i>Climate Research</i> , 2010, 44, 179-194. | 1.1 | 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. | 1.9 | 70 |
| 72 | Daily and monthly temperature and precipitation statistics as performance indicators for regional climate models. <i>Climate Research</i> , 2010, 44, 135-150. | 1.1 | 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. | 2.6 | 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. | 3.8 | 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. | 3.8 | 66 |
| 77 | On the need for bias correction of regional climate change projections of temperature and precipitation. <i>Geophysical Research Letters</i> , 2008, 35, . | 4.0 | 566 |
| 78 | Arctic Climate and Climate Change with a Focus on Greenland. <i>Advances in Ecological Research</i> , 2008, , 13-43. | 2.7 | 64 |
| 79 | Global Climate Model Performance over Alaska and Greenland. <i>Journal of Climate</i> , 2008, 21, 6156-6174. | 3.2 | 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. | 4.9 | 76 |
| 81 | A Possible Constraint on Regional Precipitation Intensity Changes under Global Warming. <i>Journal of Hydrometeorology</i> , 2007, 8, 1382-1396. | 1.9 | 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. | 3.5 | 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. | 3.6 | 936 |
| 85 | Evaluating the performance and utility of regional climate models: the PRUDENCE project. <i>Climatic Change</i> , 2007, 81, 1-6. | 3.6 | 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. | 3.6 | 602 |
| 87 | An intercomparison of regional climate simulations for Europe: assessing uncertainties in model projections. <i>Climatic Change</i> , 2007, 81, 53-70. | 3.6 | 616 |
| 88 | A dynamical link between the Arctic and the global climate system. <i>Geophysical Research Letters</i> , 2006, 33, . | 4.0 | 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. | 3.8 | 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. | 3.8 | 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. | 3.2 | 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. | 3.8 | 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. | 2.9 | 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. | 1.1 | 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, . | 4.0 | 22 |
| 97 | Intensification of extreme European summer precipitation in a warmer climate. <i>Global and Planetary Change</i> , 2004, 44, 107-117. | 3.5 | 137 |
| 98 | Modelling of Mercury in the Arctic with the Danish Eulerian Hemispheric Model. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2251-2257. | 4.9 | 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. | 2.3 | 41 |
| 100 | Severe summertime flooding in Europe. <i>Nature</i> , 2003, 421, 805-806. | 27.8 | 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, . | 4.0 | 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. | 1.9 | 43 |
| 105 | Regional Climate Scenarios for use in Nordic Water Resources Studies. <i>Hydrology Research</i> , 2003, 34, 399-412. | 2.7 | 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. | 4.0 | 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. | 3.2 | 59 |
| 110 | A synthesis of regional climate change simulations-A Scandinavian perspective. Geophysical Research Letters, 2001, 28, 1003-1006. | 4.0 | 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. | 4.0 | 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. | 3.2 | 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. | 3.8 | 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. | 1.4 | 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, , . | 3.5 | 2 |