

Claas Teichmann

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

6,106
citations

172207

29
h-index

243296

44
g-index

63
all docs

63
docs citations

63
times ranked

6322
citing authors

#	ARTICLE	IF	CITATIONS
1	EURO-CORDEX: new high-resolution climate change projections for European impact research. <i>Regional Environmental Change</i> , 2014, 14, 563-578.	1.4	1,758
2	Regional climate modeling on European scales: a joint standard evaluation of the EURO-CORDEX RCM ensemble. <i>Geoscientific Model Development</i> , 2014, 7, 1297-1333.	1.3	711
3	The European climate under a 2°C global warming. <i>Environmental Research Letters</i> , 2014, 9, 034006.	2.2	292
4	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. <i>Climate Dynamics</i> , 2013, 41, 2555-2575.	1.7	290
5	The impact of climate change on photovoltaic power generation in Europe. <i>Nature Communications</i> , 2015, 6, 10014.	5.8	236
6	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. <i>Journal of Climate</i> , 2020, 33, 3635-3661.	1.2	230
7	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
8	Assessing the Transferability of the Regional Climate Model REMO to Different COordinated Regional Climate Downscaling EXperiment (CORDEX) Regions. <i>Atmosphere</i> , 2012, 3, 181-199.	1.0	219
9	Precipitation in the EURO-CORDEX 0.11° and 0.44° simulations: high resolution, high benefits?. <i>Climate Dynamics</i> , 2016, 46, 383-412.	1.7	215
10	Climate Impacts in Europe Under +1.5°C Global Warming. <i>Earth's Future</i> , 2018, 6, 264-285.	2.4	130
11	Climate change impacts on the power generation potential of a European mid-century wind farms scenario. <i>Environmental Research Letters</i> , 2016, 11, 034013.	2.2	120
12	European climate change at global mean temperature increases of 1.5 and 2°C above pre-industrial conditions as simulated by the EURO-CORDEX regional climate models. <i>Earth System Dynamics</i> , 2018, 9, 459-478.	2.7	114
13	Evaluation of the Large EURO-CORDEX Regional Climate Model Ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2019JD032344.	1.2	109
14	How Does a Regional Climate Model Modify the Projected Climate Change Signal of the Driving GCM: A Study over Different CORDEX Regions Using REMO. <i>Atmosphere</i> , 2013, 4, 214-236.	1.0	104
15	Assessment of the European Climate Projections as Simulated by the Large EURO-CORDEX Regional and Global Climate Model Ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2019JD032356.	1.2	104
16	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. <i>Climate Dynamics</i> , 2016, 47, 719-737.	1.7	85
17	Land-atmosphere coupling in EURO-CORDEX evaluation experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 79-103.	1.2	84
18	Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. <i>Climate Dynamics</i> , 2021, 57, 1293.	1.7	83

#	ARTICLE	IF	CITATIONS
19	Future Changes in European Severe Convection Environments in a Regional Climate Model Ensemble. <i>Journal of Climate</i> , 2017, 30, 6771-6794.	1.2	82
20	A polarized discrete ordinate scattering model for simulations of limb and nadir long-wave measurements in 1-D/3-D spherical atmospheres. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	68
21	Analysis of Compound Climate Extremes and Exposed Population in Africa Under Two Different Emission Scenarios. <i>Earth's Future</i> , 2020, 8, e2019EF001473.	2.4	66
22	Evaluation of New CORDEX Simulations Using an Updated Köppen-Trewartha Climate Classification. <i>Atmosphere</i> , 2019, 10, 726.	1.0	65
23	Assessing mean climate change signals in the global CORDEX-CORE ensemble. <i>Climate Dynamics</i> , 2021, 57, 1269.	1.7	63
24	A multi-model climate response over tropical Africa at +2 °C. <i>Climate Services</i> , 2017, 7, 87-95.	1.0	61
25	Robustness of Ensemble Climate Projections Analyzed with Climate Signal Maps: Seasonal and Extreme Precipitation for Germany. <i>Atmosphere</i> , 2015, 6, 677-698.	1.0	55
26	Summertime precipitation extremes in a EURO-CORDEX 0.11° ensemble at an hourly resolution. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 957-971.	1.5	50
27	Simulation of medicanes over the Mediterranean Sea in a regional climate model ensemble: impact of ocean-atmosphere coupling and increased resolution. <i>Climate Dynamics</i> , 2018, 51, 1041-1057.	1.7	46
28	Downscaling extreme month-long anomalies in southern South America. <i>Climatic Change</i> , 2010, 98, 379-403.	1.7	45
29	A new spatially distributed added value index for regional climate models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles. <i>Climate Dynamics</i> , 2021, 57, 1403-1424.	1.7	40
30	The CORDEX-CORE EXP-I Initiative: Description and Highlight Results from the Initial Analysis. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E293-E310.	1.7	35
31	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3493-3515.	1.3	31
32	European daily precipitation according to EURO-CORDEX regional climate models (RCMs) and high-resolution global climate models (GCMs) from the High-Resolution Model Intercomparison Project (HighResMIP). <i>Geoscientific Model Development</i> , 2020, 13, 5485-5506.	1.3	29
33	Editorial for the CORDEX-CORE Experiment I Special Issue. <i>Climate Dynamics</i> , 2021, 57, 1265-1268.	1.7	27
34	Case study for the assessment of the biogeophysical effects of a potential afforestation in Europe. <i>Carbon Balance and Management</i> , 2013, 8, 3.	1.4	26
35	Avoiding Extremes: Benefits of Staying below +1.5 °C Compared to +2.0 °C and +3.0 °C Global Warming. <i>Atmosphere</i> , 2018, 9, 115.	1.0	26
36	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

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37	A high-resolution 43-year atmospheric hindcast for South America generated with the MPI regional model. <i>Climate Dynamics</i> , 2009, 32, 693-709.	1.7	23
38	The regional aerosol-climate model REMO-HAM. <i>Geoscientific Model Development</i> , 2012, 5, 1323-1339.	1.3	19
39	Beyond vulnerability assessment. <i>Nature Climate Change</i> , 2013, 3, 942-943.	8.1	9
40	Understanding the polarization signal of spherical particles for microwave limb radiances. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 101, 179-190.	1.1	8
41	User tailored results of a regional climate model ensemble to plan adaption to the changing climate in Germany. <i>Advances in Science and Research</i> , 0, 16, 241-249.	1.0	7
42	Estimates of Presentâ€œDay and Future Climatologies of Freezing Rain in Europe Based on CORDEX Regional Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,291.	1.2	5
43	Impact of airâ€œsea coupling on the climate change signal over the Iberian Peninsula. <i>Climate Dynamics</i> , 2021, 57, 2325-2349.	1.7	5
44	Regional effects and efficiency of flue gas desulphurization in the Carpathian Basin. <i>Atmospheric Environment</i> , 2007, 41, 8500-8510.	1.9	2
45	Regionale Klimamodellierung. , 2017, , 27-35.		1