Claas Teichmann

List of Publications by Year
in descending order

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Version: 2024-02-01

45	6,106	172457	243625
papers	citations	29 h-index	44 g-index

63	63	63	6322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EURO-CORDEX: new high-resolution climate change projections for European impact research. Regional Environmental Change, 2014, 14, 563-578.	2.9	1,758
2	Regional climate modeling on European scales: a joint standard evaluation of the EURO-CORDEX RCM ensemble. Geoscientific Model Development, 2014, 7, 1297-1333.	3.6	711
3	The European climate under a 2â€‰Â°C global warming. Environmental Research Letters, 2014, 9, 034006.	5.2	292
4	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. Climate Dynamics, 2013, 41, 2555-2575.	3.8	290
5	The impact of climate change on photovoltaic power generation in Europe. Nature Communications, 2015, 6, 10014.	12.8	236
6	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data. Journal of Climate, 2020, 33, 3635-3661.	3.2	230
7	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. Regional Environmental Change, 2020, 20, 1.	2.9	227
8	Assessing the Transferability of the Regional Climate Model REMO to Different COordinated Regional Climate Downscaling EXperiment (CORDEX) Regions. Atmosphere, 2012, 3, 181-199.	2.3	219
9	Precipitation in the EURO-CORDEX $$0.11^{circ }$$ 0 . 11 â˜ and $$0.44^{circ }$$ 0 . 44 â˜ simulations: high resolution, high benefits?. Climate Dynamics, 2016, 46, 383-412.	3.8	215
10	Climate Impacts in Europe Under +1.5Â°C Global Warming. Earth's Future, 2018, 6, 264-285.	6.3	130
11	Climate change impacts on the power generation potential of a European mid-century wind farms scenario. Environmental Research Letters, 2016, 11, 034013.	5.2	120
12	European climate change at global mean temperature increases of 1.5 and 2â€¯Â°C above pre-industrial conditions as simulated by the EURO-CORDEX regional climate models. Earth System Dynamics, 2018, 9, 459-478.	7.1	114
13	Evaluation of the Large EUROâ€CORDEX Regional Climate Model Ensemble. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2019JD032344.	3.3	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. Atmosphere, 2013, 4, 214-236.	2.3	104
15	Assessment of the European Climate Projections as Simulated by the Large EUROâ€CORDEX Regional and Global Climate Model Ensemble. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2019JD032356.	3.3	104
16	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. Climate Dynamics, 2016, 47, 719-737.	3.8	85
17	Landâ€atmosphere coupling in EUROâ€CORDEX evaluation experiments. Journal of Geophysical Research D: Atmospheres, 2017, 122, 79-103.	3.3	84
18	Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. Climate Dynamics, 2021, 57, 1293.	3.8	83

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19	Future Changes in European Severe Convection Environments in a Regional Climate Model Ensemble. Journal of Climate, 2017, 30, 6771-6794.	3.2	82
20	A polarized discrete ordinate scattering model for simulations of limb and nadir long-wave measurements in 1-D/3-D spherical atmospheres. Journal of Geophysical Research, 2004, 109, .	3.3	68
21	Analysis of Compound Climate Extremes and Exposed Population in Africa Under Two Different Emission Scenarios. Earth's Future, 2020, 8, e2019EF001473.	6.3	66
22	Evaluation of New CORDEX Simulations Using an Updated KÃ¶ppenâ€“Trewartha Climate Classification. Atmosphere, 2019, 10, 726.	2.3	65
23	Assessing mean climate change signals in the global CORDEX-CORE ensemble. Climate Dynamics, 2021, 57, 1269.	3.8	63
24	A multi-model climate response over tropical Africa at +2 Â°C. Climate Services, 2017, 7, 87-95.	2.5	61
25	Robustness of Ensemble Climate Projections Analyzed with Climate Signal Maps: Seasonal and Extreme Precipitation for Germany. Atmosphere, 2015, 6, 677-698.	2.3	55
26	Summertime precipitation extremes in a EURO-CORDEX 0.11Â° ensemble at an hourly resolution. Natural Hazards and Earth System Sciences, 2019, 19, 957-971.	3.6	50
27	Simulation of medicanes over the Mediterranean Sea in a regional climate model ensemble: impact of oceanâ€“atmosphere coupling and increased resolution. Climate Dynamics, 2018, 51, 1041-1057.	3.8	46
28	Downscaling extreme month-long anomalies in southern South America. Climatic Change, 2010, 98, 379-403.	3.6	45
29	A new spatially distributed added value index for regional climate models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles. Climate Dynamics, 2021, 57, 1403-1424.	3.8	40
30	The CORDEX-CORE EXP-I Initiative: Description and Highlight Results from the Initial Analysis. Bulletin of the American Meteorological Society, 2022, 103, E293-E310.	3.3	35
31	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3493-3515.	3.6	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). Geoscientific Model Development, 2020, 13, 5485-5506.	3.6	29
33	Editorial for the CORDEX-CORE Experiment I Special Issue. Climate Dynamics, 2021, 57, 1265-1268.	3.8	27
34	Case study for the assessment of the biogeophysical effects of a potential afforestation in Europe. Carbon Balance and Management, 2013, 8, 3.	3.2	26
35	Avoiding Extremes: Benefits of Staying below +1.5 Â°C Compared to +2.0 Â°C and +3.0 Â°C Global Warming. Atmosphere, 2018, 9, 115.	2.3	26
36	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

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37	A high-resolution 43-year atmospheric hindcast for South America generated with the MPI regional model. Climate Dynamics, 2009, 32, 693-709.	3.8	23
38	The regional aerosol-climate model REMO-HAM. Geoscientific Model Development, 2012, 5, 1323-1339.	3.6	19
39	Beyond vulnerability assessment. Nature Climate Change, 2013, 3, 942-943.	18.8	9
40	Understanding the polarization signal of spherical particles for microwave limb radiances. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 101, 179-190.	2.3	8
41	User tailored results of a regional climate model ensemble to plan adaption to the changing climate in Germany. Advances in Science and Research, 0, 16, 241-249.	1.0	7
42	Estimates of Presentâ€Day and Future Climatologies of Freezing Rain in Europe Based on CORDEX Regional Climate Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,291.	3.3	5
43	Impact of airâ€“sea coupling on the climate change signal over the Iberian Peninsula. Climate Dynamics, 2021, 57, 2325-2349.	3.8	5
44	Regional effects and efficiency of flue gas desulphurization in the Carpathian Basin. Atmospheric Environment, 2007, 41, 8500-8510.	4.1	2
45	Regionale Klimamodellierung. , 2017, , 27-35.		1