

Klaus Goergen

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

4,269
citations

257357

24
h-index

243529

44
g-index

65
all docs

65
docs citations

65
times ranked

5127
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on regional convection-permitting climate modeling: Demonstrations, prospects, and challenges. <i>Reviews of Geophysics</i> , 2015, 53, 323-361.	9.0	907
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 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
4	Quantifying uncertainty sources in an ensemble of hydrological climate-impact projections. <i>Water Resources Research</i> , 2013, 49, 1523-1536.	1.7	284
5	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
6	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
7	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. <i>Climate Dynamics</i> , 2020, 55, 3-34.	1.7	176
8	Regional climate hindcast simulations within EURO-CORDEX: evaluation of a WRF multi-physics ensemble. <i>Geoscientific Model Development</i> , 2015, 8, 603-618.	1.3	175
9	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. <i>Climate Dynamics</i> , 2021, 57, 275-302.	1.7	114
10	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution part 2: historical and future simulations of precipitation. <i>Climate Dynamics</i> , 2021, 56, 3581-3602.	1.7	101
11	Fire in Australian savannas: from leaf to landscape. <i>Global Change Biology</i> , 2015, 21, 62-81.	4.2	88
12	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
13	Land-atmosphere coupling in EURO-CORDEX evaluation experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 79-103.	1.2	84
14	Studying the influence of groundwater representations on land surface-atmosphere feedbacks during the European heat wave in 2003. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,301.	1.2	74
15	Spatial and temporal variability of sea ice in the Laptev Sea: Analyses and review of satellite passive-microwave data and model results, 1979 to 2002. <i>Global and Planetary Change</i> , 2005, 48, 28-54.	1.6	73
16	Evaluation and projected changes of precipitation statistics in convection-permitting WRF climate simulations over Central Europe. <i>Climate Dynamics</i> , 2020, 55, 325-341.	1.7	59
17	Infiltration from the Pedon to Global Grid Scales: An Overview and Outlook for Land Surface Modeling. <i>Vadose Zone Journal</i> , 2019, 18, 1-53.	1.3	56
18	Implementation and scaling of the fully coupled Terrestrial Systems Modeling Platform (TerrSysMP) $\text{Tj ETQqO O O rgBT /Overlock 10 Tf 5}$ <i>Geoscientific Model Development</i> , 2014, 7, 2531-2543.	1.3	54

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19	Currently legislated decreases in nitrogen deposition will yield only limited plant species recovery in European forests. <i>Environmental Research Letters</i> , 2018, 13, 125010.	2.2	32
20	Influence of savanna fire on Australian monsoon season precipitation and circulation as simulated using a distributed computing environment. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	29
21	Inferring catchment precipitation by doing hydrology backward: A test in 24 small and mesoscale catchments in Luxembourg. <i>Water Resources Research</i> , 2012, 48, .	1.7	29
22	Modelling the impact of climate change on the productivity and water-use efficiency of a central European beech forest. <i>Climate Research</i> , 2013, 58, 81-95.	0.4	28
23	Pan-European groundwater to atmosphere terrestrial systems climatology from a physically consistent simulation. <i>Scientific Data</i> , 2019, 6, 320.	2.4	27
24	Impact of abrupt land cover changes by savanna fire on northern Australian climate. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	25
25	Ensemble-based analysis of regional climate change effects on the cabbage stem weevil (<i>Ceutorhynchus pallidactylus</i> (Mrsh.)) in winter oilseed rape (<i>Brassica napus</i> L.). <i>Journal of Agricultural Science</i> , 2012, 150, 191-202.	0.6	25
26	Reanalysis in Earth System Science: Toward Terrestrial Ecosystem Reanalysis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000715.	9.0	24
27	Improving soil moisture and runoff simulations at 3 km over Europe using land surface data assimilation. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 277-301.	1.9	22
28	ENSEMBLES-based assessment of regional climate effects in Luxembourg and their impact on vegetation. <i>Climatic Change</i> , 2013, 119, 761-773.	1.7	19
29	Spring air temperature accounts for the bimodal temporal distribution of <i>Septoria tritici</i> epidemics in the winter wheat stands of Luxembourg. <i>Crop Protection</i> , 2012, 42, 250-255.	1.0	18
30	Land-Atmosphere Coupling Regimes in a Future Climate in Africa: From Model Evaluation to Projections Based on CORDEX-Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11118-11142.	1.2	18
31	Introduction of an Experimental Terrestrial Forecasting/Monitoring System at Regional to Continental Scales Based on the Terrestrial Systems Modeling Platform (v1.1.0). <i>Water (Switzerland)</i> , 2018, 10, 1697.	1.2	17
32	Modelling study of soil C, N and pH response to air pollution and climate change using European LTER site observations. <i>Science of the Total Environment</i> , 2018, 640-641, 387-399.	3.9	17
33	Future Heat Waves in Different European Capitals Based on Climate Change Indicators. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3959.	1.2	16
34	Shifted migration of the rape stem weevil <i>Ceutorhynchus napi</i> (Coleoptera: Curculionidae) linked to climate change. <i>European Journal of Entomology</i> , 2014, 111, 243-250.	1.2	13
35	Internal variability versus multi-physics uncertainty in a regional climate model. <i>International Journal of Climatology</i> , 2021, 41, E656.	1.5	13
36	Effects of land surface inhomogeneity on convection-permitting WRF simulations over central Europe. <i>Meteorology and Atmospheric Physics</i> , 2020, 132, 53-69.	0.9	12

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37	An Interannual Probabilistic Assessment of Subsurface Water Storage Over Europe Using a Fully Coupled Terrestrial Model. <i>Water Resources Research</i> , 2021, 57, e2020WR027828.	1.7	11
38	ISPOL weather conditions in the context of long-term climate variability in the north-western Weddell Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 918-932.	0.6	9
39	A climate service for ecologists: sharing pre-processed EURO-CORDEX regional climate scenario data using the eLTER Information System. <i>Earth System Science Data</i> , 2021, 13, 631-644.	3.7	7
40	Boundary condition and oceanic impacts on the atmospheric water balance in limited area climate model ensembles. <i>Scientific Reports</i> , 2021, 11, 6228.	1.6	7
41	Groundwater Model Impacts Multiannual Simulations of Heat Waves. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
42	An observational and modelling analysis of Laptev Sea (Arctic Ocean) ice variations during summer. <i>Annals of Glaciology</i> , 2001, 33, 533-538.	2.8	4
43	The benefit of modeled ozone data for the reconstruction of a 99-year UV radiation time series. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	3
44	A run control framework to streamline profiling, porting, and tuning simulation runs and provenance tracking of geoscientific applications. <i>Geoscientific Model Development</i> , 2018, 11, 2875-2895.	1.3	3