

Henning W Rust

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,793
citations

15
h-index

42
g-index

57
ext. papers

2,068
ext. citations

4.2
avg, IF

4.38
L-index

#	Paper	IF	Citations
44	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	1021
43	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 295-350.	2.9	147
42	Synoptic and meteorological drivers of extreme ozone concentrations over Europe. <i>Environmental Research Letters</i> , 2016 , 11, 024005	6.2	76
41	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 2379-2394	6.1	60
40	The influence of synoptic airflow on UK daily precipitation extremes. Part I: Observed spatio-temporal relationships. <i>Climate Dynamics</i> , 2011 , 36, 261-275	4.2	45
39	Modelling seasonality in extreme precipitation. <i>European Physical Journal: Special Topics</i> , 2009 , 174, 99-113.	1.3	37
38	Synoptic airflow and UK daily precipitation extremes. <i>Extremes</i> , 2010 , 13, 133-153	0.7	37
37	Linking teleconnection patterns to European temperature extremes using a multiple linear regression model. <i>Meteorologische Zeitschrift</i> , 2015 , 24, 411-423	3.1	29
36	The influence of synoptic airflow on UK daily precipitation extremes. Part II: regional climate model and E-OBS data validation. <i>Climate Dynamics</i> , 2012 , 39, 287-301	4.2	26
35	Probabilistic evaluation of decadal prediction skill regarding Northern Hemisphere winter storms. <i>Meteorologische Zeitschrift</i> , 2016 , 25, 721-738	3.1	26
34	Fewer jumps, less memory: Homogenized temperature records and long memory. <i>Journal of Geophysical Research</i> , 2008 , 113,		25
33	Quantifying Differences in Circulation Patterns Based on Probabilistic Models: IPCC AR4 Multimodel Comparison for the North Atlantic*. <i>Journal of Climate</i> , 2010 , 23, 6573-6589	4.4	22
32	A multi-model comparison of meteorological drivers of surface ozone over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12269-12288	6.8	22
31	Evaluation of forecasts by accuracy and spread in the MiKlip decadal climate prediction system. <i>Meteorologische Zeitschrift</i> , 2016 , 25, 631-643	3.1	20
30	Are we using the right fuel to drive hydrological models? A climate impact study in the Upper Blue Nile. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 2163-2185	5.5	19
29	Evaluating decadal predictions of northern hemispheric cyclone frequencies. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2014 , 66, 22830	2	14
28	Precipitation extremes on multiple timescales [Bartlett-Lewis rectangular pulse model and intensity-duration-frequency curves. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 6501-6517	5.5	14

27	The Diurnal Nature of Future Extreme Precipitation Intensification. <i>Geophysical Research Letters</i> , 2019 , 46, 7680-7689	4.9	12
26	Implications of Winter NAO Flavors on Present and Future European Climate. <i>Climate</i> , 2020 , 8, 13	3.1	12
25	Mapping Weather-Type Influence on Senegal Precipitation Based on a Spatial-Temporal Statistical Model*. <i>Journal of Climate</i> , 2013 , 26, 8189-8209	4.4	12
24	Parametric decadal climate forecast recalibration (DeFoReSt 1.0). <i>Geoscientific Model Development</i> , 2018 , 11, 351-368	6.3	12
23	Discontinuous Daily Temperatures in the WATCH Forcing Datasets. <i>Journal of Hydrometeorology</i> , 2015 , 16, 465-472	3.7	10
22	Statistical issues about solar-climate relations. <i>Climate of the Past</i> , 2010 , 6, 565-573	3.9	10
21	Subhourly rainfall in a convection-permitting model. <i>Environmental Research Letters</i> , 2020 , 15, 034031	6.2	9
20	The effect of long-range dependence on modelling extremes with the generalised extreme value distribution. <i>European Physical Journal: Special Topics</i> , 2009 , 174, 91-97	2.3	9
19	A classification algorithm for selective dynamical downscaling of precipitation extremes. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4183-4200	5.5	9
18	Seasonal Cycle in German Daily Precipitation Extremes. <i>Meteorologische Zeitschrift</i> , 2018 , 27, 3-13	3.1	6
17	Estimating IDF Curves Consistently over Durations with Spatial Covariates. <i>Water (Switzerland)</i> , 2020 , 12, 3119	3	5
16	From metastable to coherent sets- Time-discretization schemes. <i>Chaos</i> , 2019 , 29, 012101	3.3	5
15	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. <i>Climate Dynamics</i> , 2019 , 53, 3711-3729	4.2	4
14	Are we using the right fuel to drive hydrological models? A climate impact study in the Upper Blue Nile		4
13	Confidence Intervals for Flood Return Level Estimates Assuming Long-Range Dependence 2011 , 60-88		4
12	Extreme Value Analysis Considering Trends: Application to Discharge Data of the Danube River Basin 2011 , 166-183		4
11	Present and future diurnal hourly precipitation in 0.11°EURO-CORDEX models and at convection-permitting resolution. <i>Environmental Research Communications</i> , 2021 , 3, 055002	3.1	4
10	Quantifying the extremity of windstorms for regions featuring infrequent events. <i>Atmospheric Science Letters</i> , 2017 , 18, 315-322	2.4	3

9	Evaluating the Performance of a Max-Stable Process for Estimating Intensity-Duration-Frequency Curves. <i>Water (Switzerland)</i> , 2020 , 12, 3314	3	3
8	A spatial and seasonal climatology of extreme precipitation return-levels: A case study. <i>Spatial Statistics</i> , 2019 , 34, 100275	2.2	3
7	Introduction to Freva [A Free Evaluation System Framework for Earth System Modeling. <i>Journal of Open Research Software</i> , 2021 , 9,	2.3	3
6	Recalibrating Decadal Climate Predictions [What is an adequate model for the drift?		2
5	Recalibrating decadal climate predictions [what is an adequate model for the drift?. <i>Geoscientific Model Development</i> , 2021 , 14, 4335-4355	6.3	2
4	Preface "Extreme Events: Nonlinear Dynamics and Time Series Analysis". <i>Nonlinear Processes in Geophysics</i> , 2011 , 18, 895-897	2.9	1
3	Modeling seasonal variations of extreme rainfall on different timescales in Germany. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 6133-6149	5.5	1
2	Representation of the Antarctic Oscillation and related precipitation patterns in the MPI Earth System Model. <i>Meteorologische Zeitschrift</i> , 2016 , 25, 767-774	3.1	1
1	Flexible and consistent quantile estimation for intensity-duration-frequency curves. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 6479-6494	5.5	1