Henning W Rust

List of Publications by Year
in descending order

41	2,370	430442 18	288905 40
papers	citations	h-index	g-index

57	57	57	3222
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. Reviews of Geophysics, 2010, 48, .	9.0	1,256
2	Extreme events: dynamics, statistics and prediction. Nonlinear Processes in Geophysics, 2011, 18, 295-350.	0.6	197
3	Synoptic and meteorological drivers of extreme ozone concentrations over Europe. Environmental Research Letters, 2016, 11, 024005.	2.2	116
4	MiKlip: A National Research Project on Decadal Climate Prediction. Bulletin of the American Meteorological Society, 2016, 97, 2379-2394.	1.7	78
5	The influence of synoptic airflow on UK daily precipitation extremes. Part I: Observed spatio-temporal relationships. Climate Dynamics, 2011, 36, 261-275.	1.7	51
6	Modelling seasonality in extreme precipitation. European Physical Journal: Special Topics, 2009, 174, 99-111.	1.2	43
7	Synoptic airflow and UK daily precipitation extremes. Extremes, 2010, 13, 133-153.	0.5	42
8	A multi-model comparison of meteorological drivers of surface ozone over Europe. Atmospheric Chemistry and Physics, 2018, 18, 12269-12288.	1.9	42
9	Linking teleconnection patterns to European temperatureÂâ€“ aÂmultiple linear regression model. Meteorologische Zeitschrift, 2015, 24, 411-423.	0.5	38
10	The influence of synoptic airflow on UK daily precipitation extremes. Part II: regional climate model and E-OBS data validation. Climate Dynamics, 2012, 39, 287-301.	1.7	35
11	Probabilistic evaluation of decadal prediction skill regarding Northern Hemisphere winter storms. Meteorologische Zeitschrift, 2016, 25, 721-738.	0.5	35
12	Are we using the right fuel to drive hydrological models? A climate impact study in the Upper Blue Nile. Hydrology and Earth System Sciences, 2018, 22, 2163-2185.	1.9	30
13	Fewer jumps, less memory: Homogenized temperature records and long memory. Journal of Geophysical Research, 2008, 113, .	3.3	28
14	Implications of Winter NAO Flavors on Present and Future European Climate. Climate, 2020, 8, 13.	1.2	28
15	The Diurnal Nature of Future Extreme Precipitation Intensification. Geophysical Research Letters, 2019, 46, 7680-7689.	1.5	25
16	Quantifying Differences in Circulation Patterns Based on Probabilistic Models: IPCC AR4 Multimodel Comparison for the North Atlantic*. Journal of Climate, 2010, 23, 6573-6589.	1.2	24
17	Evaluation of forecasts by accuracy and spread in the MiKlip decadal climate prediction system. Meteorologische Zeitschrift, 2016, 25, 631-643.	0.5	24
18	Evaluating decadal predictions of northern hemispheric cyclone frequencies. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 22830.	0.8	20

#	Article	IF	Citations
19	Parametric decadal climate forecast recalibration (DeFoReSt 1.0). Geoscientific Model Development, 2018, 11, 351-368.	1.3	19
20	Precipitation extremes on multiple timescales â€“ Bartlettâ€“Lewis rectangular pulse model and intensityâ€“durationâ€“frequency curves. Hydrology and Earth System Sciences, 2017, 21, 6501-6517.	1.9	19
21	Estimating IDF Curves Consistently over Durations with Spatial Covariates. Water (Switzerland), 2020, 12, 3119.	1.2	18
22	Mapping Weather-Type Influence on Senegal Precipitation Based on a Spatialâ€“Temporal Statistical Model*. Journal of Climate, 2013, 26, 8189-8209.	1.2	17
23	Subhourly rainfall in a convection-permitting model. Environmental Research Letters, 2020, 15, 034031.	2.2	17
24	The effect of long-range dependence on modelling extremes with the generalised extreme value distribution. European Physical Journal: Special Topics, 2009, 174, 91-97.	1.2	14
25	Discontinuous Daily Temperatures in the WATCH Forcing Datasets. Journal of Hydrometeorology, 2015, 16, 465-472.	0.7	13
26	Statistical issues about solarâ€“climate relations. Climate of the Past, 2010, 6, 565-573.	1.3	12
27	Present and future diurnal hourly precipitation in 0.11Â° EURO-CORDEX models and at convection-permitting resolution. Environmental Research Communications, 2021, 3, 055002.	0.9	12
28	Flexible and consistent quantile estimation for intensityâ€“durationâ€“frequency curves. Hydrology and Earth System Sciences, 2021, 25, 6479-6494.	1.9	12
29	A classification algorithm for selective dynamical downscaling of precipitation extremes. Hydrology and Earth System Sciences, 2018, 22, 4183-4200.	1.9	11
30	Introduction to Freva â€“ A Free Evaluation System Framework for Earth System Modeling. Journal of Open Research Software, 2021, 9, 13.	2.7	11
31	Seasonal Cycle in German Daily Precipitation Extremes. Meteorologische Zeitschrift, 2018, 27, 3-13.	0.5	10
32	A spatial and seasonal climatology of extreme precipitation return-levels: A case study. Spatial Statistics, 2019, 34, 100275.	0.9	10
33	Evaluating the Performance of a Max-Stable Process for Estimating Intensity-Duration-Frequency Curves. Water (Switzerland), 2020, 12, 3314.	1.2	10
34	From metastable to coherent setsâ€” Time-discretization schemes. Chaos, 2019, 29, 012101.	1.0	8
35	Modeling seasonal variations of extreme rainfall on different timescales in Germany. Hydrology and Earth System Sciences, 2021, 25, 6133-6149.	1.9	7
36	Quantifying the extremity of windstorms for regions featuring infrequent events. Atmospheric Science Letters, 2017, 18, 315-322.	0.8	5

#	Article	IF	Citations
37	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. Climate Dynamics, 2019, 53, 3711-3729.	1.7	5
38	Recalibrating decadal climate predictions â€“ what is an adequate model for the drift?. Geoscientific Model Development, 2021, 14, 4335-4355.	1.3	5
39	Confidence Intervals for Flood Return Level Estimates Assuming Long-Range Dependence. , 2011, , 60-88.		5
40	Preface "Extreme Events: Nonlinear Dynamics and Time Series Analysis". Nonlinear Processes in Geophysics, 2011, 18, 895-897.	0.6	3
41	Representation of the Antarctic Oscillation and related precipitation patterns in the MPI Earth System Model. Meteorologische Zeitschrift, 2016, 25, 767-774.	0.5	1