

Henning W Rust

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,370
citations

430874

18
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

3222
citing authors

#	ARTICLE	IF	CITATIONS
1	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, .	23.0	1,256
2	Extreme events: dynamics, statistics and prediction. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 295-350.	1.3	197
3	Synoptic and meteorological drivers of extreme ozone concentrations over Europe. <i>Environmental Research Letters</i> , 2016, 11, 024005.	5.2	116
4	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2379-2394.	3.3	78
5	The influence of synoptic airflow on UK daily precipitation extremes. Part I: Observed spatio-temporal relationships. <i>Climate Dynamics</i> , 2011, 36, 261-275.	3.8	51
6	Modelling seasonality in extreme precipitation. <i>European Physical Journal: Special Topics</i> , 2009, 174, 99-111.	2.6	43
7	Synoptic airflow and UK daily precipitation extremes. <i>Extremes</i> , 2010, 13, 133-153.	1.0	42
8	A multi-model comparison of meteorological drivers of surface ozone over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12269-12288.	4.9	42
9	Linking teleconnection patterns to European temperature – a multiple linear regression model. <i>Meteorologische Zeitschrift</i> , 2015, 24, 411-423.	1.0	38
10	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.	3.8	35
11	Probabilistic evaluation of decadal prediction skill regarding Northern Hemisphere winter storms. <i>Meteorologische Zeitschrift</i> , 2016, 25, 721-738.	1.0	35
12	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.	4.9	30
13	Fewer jumps, less memory: Homogenized temperature records and long memory. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
14	Implications of Winter NAO Flavors on Present and Future European Climate. <i>Climate</i> , 2020, 8, 13.	2.8	28
15	The Diurnal Nature of Future Extreme Precipitation Intensification. <i>Geophysical Research Letters</i> , 2019, 46, 7680-7689.	4.0	25
16	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.	3.2	24
17	Evaluation of forecasts by accuracy and spread in the MiKlip decadal climate prediction system. <i>Meteorologische Zeitschrift</i> , 2016, 25, 631-643.	1.0	24
18	Evaluating decadal predictions of northern hemispheric cyclone frequencies. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 22830.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Parametric decadal climate forecast recalibration (DeFoReSt 1.0). <i>Geoscientific Model Development</i> , 2018, 11, 351-368.	3.6	19
20	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.	4.9	19
21	Estimating IDF Curves Consistently over Durations with Spatial Covariates. <i>Water (Switzerland)</i> , 2020, 12, 3119.	2.7	18
22	Mapping Weather-Type Influence on Senegal Precipitation Based on a Spatial–Temporal Statistical Model*. <i>Journal of Climate</i> , 2013, 26, 8189-8209.	3.2	17
23	Subhourly rainfall in a convection-permitting model. <i>Environmental Research Letters</i> , 2020, 15, 034031.	5.2	17
24	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.	2.6	14
25	Discontinuous Daily Temperatures in the WATCH Forcing Datasets. <i>Journal of Hydrometeorology</i> , 2015, 16, 465-472.	1.9	13
26	Statistical issues about solar–climate relations. <i>Climate of the Past</i> , 2010, 6, 565-573.	3.4	12
27	Present and future diurnal hourly precipitation in 0.11° EUIRO-CORDEX models and at convection-permitting resolution. <i>Environmental Research Communications</i> , 2021, 3, 055002.	2.3	12
28	Flexible and consistent quantile estimation for intensity–duration–frequency curves. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6479-6494.	4.9	12
29	A classification algorithm for selective dynamical downscaling of precipitation extremes. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4183-4200.	4.9	11
30	Introduction to Freva – A Free Evaluation System Framework for Earth System Modeling. <i>Journal of Open Research Software</i> , 2021, 9, 13.	5.9	11
31	Seasonal Cycle in German Daily Precipitation Extremes. <i>Meteorologische Zeitschrift</i> , 2018, 27, 3-13.	1.0	10
32	A spatial and seasonal climatology of extreme precipitation return-levels: A case study. <i>Spatial Statistics</i> , 2019, 34, 100275.	1.9	10
33	Evaluating the Performance of a Max-Stable Process for Estimating Intensity-Duration-Frequency Curves. <i>Water (Switzerland)</i> , 2020, 12, 3314.	2.7	10
34	From metastable to coherent sets – Time-discretization schemes. <i>Chaos</i> , 2019, 29, 012101.	2.5	8
35	Modeling seasonal variations of extreme rainfall on different timescales in Germany. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6133-6149.	4.9	7
36	Quantifying the extremity of windstorms for regions featuring infrequent events. <i>Atmospheric Science Letters</i> , 2017, 18, 315-322.	1.9	5

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37	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. <i>Climate Dynamics</i> , 2019, 53, 3711-3729.	3.8	5
38	Recalibrating decadal climate predictions – what is an adequate model for the drift?. <i>Geoscientific Model Development</i> , 2021, 14, 4335-4355.	3.6	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". <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 895-897.	1.3	3
41	Representation of the Antarctic Oscillation and related precipitation patterns in the MPI Earth System Model. <i>Meteorologische Zeitschrift</i> , 2016, 25, 767-774.	1.0	1