

# Uwe Ulbrich

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1225022/publications.pdf>

Version: 2024-02-01

98  
papers

6,871  
citations

76031

42  
h-index

73587

79  
g-index

148  
all docs

148  
docs citations

148  
times ranked

7534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating decadal predictions of northern hemispheric cyclone frequencies. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 22830.	0.8	20
2	Kinematic vorticity number – a tool for estimating vortex sizes and circulations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 29464.	0.8	17
3	Objective climatology of cyclones in the Mediterranean region: a consensus view among methods with different system identification and tracking criteria. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 29391.	0.8	79
4	Modeling hourly weather-related road traffic variations for different vehicle types in Germany. <i>European Transport Research Review</i> , 2022, 14, .	2.3	2
5	Quantification of meteorological conditions for rockfall triggers in Germany. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2117-2130.	1.5	2
6	Introduction to Freva – A Free Evaluation System Framework for Earth System Modeling. <i>Journal of Open Research Software</i> , 2021, 9, 13.	2.7	11
7	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.	0.9	12
8	Recalibrating decadal climate predictions – what is an adequate model for the drift?. <i>Geoscientific Model Development</i> , 2021, 14, 4335-4355.	1.3	5
9	Artificial intelligence reconstructs missing climate information. <i>Nature Geoscience</i> , 2020, 13, 408-413.	5.4	94
10	Subhourly rainfall in a convection-permitting model. <i>Environmental Research Letters</i> , 2020, 15, 034031.	2.2	17
11	Implications of Winter NAO Flavors on Present and Future European Climate. <i>Climate</i> , 2020, 8, 13.	1.2	28
12	Predictive modeling of hourly probabilities for weather-related road accidents. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 2857-2871.	1.5	6
13	Assessing the impact of sea surface temperatures on a simulated medecane using ensemble simulations. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 941-955.	1.5	21
14	The Diurnal Nature of Future Extreme Precipitation Intensification. <i>Geophysical Research Letters</i> , 2019, 46, 7680-7689.	1.5	25
15	Improvement in the decadal prediction skill of the North Atlantic extratropical winter circulation through increased model resolution. <i>Earth System Dynamics</i> , 2019, 10, 901-917.	2.7	7
16	Modelling serial clustering and inter-annual variability of European winter windstorms based on large-scale drivers. <i>International Journal of Climatology</i> , 2018, 38, 3044-3057.	1.5	20
17	Large-scale secondary circulations in a limited area model – the impact of lateral boundaries and resolution. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2018, 70, 1-15.	0.8	2
18	Seasonal Cycle in German Daily Precipitation Extremes. <i>Meteorologische Zeitschrift</i> , 2018, 27, 3-13.	0.5	10

#	ARTICLE	IF	CITATIONS
19	A classification algorithm for selective dynamical downscaling of precipitation extremes. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4183-4200.	1.9	11
20	Parametric decadal climate forecast recalibration (DeFoReSt 1.0). <i>Geoscientific Model Development</i> , 2018, 11, 351-368.	1.3	19
21	The Tropical Transition of the October 1996 Medicane in the Western Mediterranean Sea: A Warm Seclusion Event. <i>Monthly Weather Review</i> , 2017, 145, 2575-2595.	0.5	36
22	Quantifying the extremity of windstorms for regions featuring infrequent events. <i>Atmospheric Science Letters</i> , 2017, 18, 315-322.	0.8	5
23	Increasing frequencies and changing characteristics of heavy precipitation events threatening infrastructure in Europe under climate change. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1177-1190.	1.5	51
24	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.	1.9	19
25	Estimating uncertainties from high resolution simulations of extreme wind storms and consequences for impacts. <i>Meteorologische Zeitschrift</i> , 2016, 25, 531-541.	0.5	14
26	Probabilistic evaluation of decadal prediction skill regarding Northern Hemisphere winter storms. <i>Meteorologische Zeitschrift</i> , 2016, 25, 721-738.	0.5	35
27	An analysis of uncertainties and skill in forecasts of winter storm losses. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2391-2402.	1.5	9
28	An approach to build an event set of European windstorms based on ECMWF–EPS. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 255-268.	1.5	18
29	MiKlip: A National Research Project on Decadal Climate Prediction. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2379-2394.	1.7	78
30	Different long-term trends of extra-tropical cyclones and windstorms in ERA-20C and NOAA-20CR reanalyses. <i>Atmospheric Science Letters</i> , 2016, 17, 586-595.	0.8	46
31	Projected Change in Atmosphere. <i>Regional Climate Studies</i> , 2016, , 149-173.	1.2	4
32	Verification and process oriented validation of the MiKlip decadal prediction system. <i>Meteorologische Zeitschrift</i> , 2016, 25, 629-630.	0.5	3
33	Systematic large-scale secondary circulations in a regional climate model. <i>Geophysical Research Letters</i> , 2015, 42, 4142-4149.	1.5	19
34	Review Article: Atmospheric conditions inducing extreme precipitation over the eastern and western Mediterranean. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2525-2544.	1.5	87
35	Identification of storm surge events over the German Bight from atmospheric reanalysis and climate model data. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1437-1447.	1.5	6
36	Discontinuous Daily Temperatures in the WATCH Forcing Datasets. <i>Journal of Hydrometeorology</i> , 2015, 16, 465-472.	0.7	13

#	ARTICLE	IF	CITATIONS
37	Linking teleconnection patterns to European temperature – a multiple linear regression model. Meteorologische Zeitschrift, 2015, 24, 411-423.	0.5	38
38	Perception and use of uncertainty in severe weather warnings by emergency services in Germany. Atmospheric Research, 2015, 158-159, 292-301.	1.8	46
39	Floods and climate: emerging perspectives for flood risk assessment and management. Natural Hazards and Earth System Sciences, 2014, 14, 1921-1942.	1.5	239
40	Preface: Understanding dynamics and current developments of climate extremes in the Mediterranean region. Natural Hazards and Earth System Sciences, 2014, 14, 309-316.	1.5	12
41	Mediterranean cyclones and windstorms in a changing climate. Regional Environmental Change, 2014, 14, 1873-1890.	1.4	64
42	The climate of the Mediterranean region: research progress and climate change impacts. Regional Environmental Change, 2014, 14, 1679-1684.	1.4	115
43	Decadal windstorm activity in the North Atlantic-European sector and its relationship to the meridional overturning circulation in an ensemble of simulations with a coupled climate model. Climate Dynamics, 2014, 43, 1545-1555.	1.7	8
44	Southern Hemisphere winter cyclone activity under recent and future climate conditions in multi-model AOGCM simulations. International Journal of Climatology, 2014, 34, 3400-3416.	1.5	34
45	On the relationship between hydro-meteorological patterns and flood types. Journal of Hydrology, 2014, 519, 3249-3262.	2.3	86
46	Past and Current Climate Changes in the Mediterranean Region. Advances in Global Change Research, 2013, , 9-51.	1.6	9
47	Future Climate Projections. Advances in Global Change Research, 2013, , 53-118.	1.6	24
48	Projections of global warming-induced impacts on winter storm losses in the German private household sector. Climatic Change, 2013, 121, 195-207.	1.7	23
49	IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. Bulletin of the American Meteorological Society, 2013, 94, 529-547.	1.7	391
50	Vb cyclones and associated rainfall extremes over Central Europe under present day and climate change conditions. Meteorologische Zeitschrift, 2013, 22, 649-660.	0.5	34
51	Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. Meteorologische Zeitschrift, 2013, 22, 61-68.	0.5	77
52	Identification and ranking of extraordinary rainfall events over Northwest Italy: The role of Atlantic moisture. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2085-2097.	1.2	62
53	High-frequency noise caused by wind in large ring laser gyroscope data. Journal of Seismology, 2012, 16, 777-786.	0.6	6
54	Introduction: Mediterranean Climate – Background Information. , 2012, , xxxv-xc.		49

#	ARTICLE	IF	CITATIONS
55	Climate of the Mediterranean. , 2012, , 301-346.		78
56	Severe marine storms in the Northern Adriatic: Characteristics and trends. Physics and Chemistry of the Earth, 2012, 40-41, 93-105.	1.2	60
57	Program focuses on climate of the Mediterranean region. Eos, 2012, 93, 105-106.	0.1	31
58	Reanalysis suggests long-term upward trends in European storminess since 1871. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	92
59	High-resolution refinement of a storm loss model and estimation of return periods of loss-intensive storms over Germany. Natural Hazards and Earth System Sciences, 2011, 11, 2821-2833.	1.5	50
60	Future changes in European winter storm losses and extreme wind speeds inferred from GCM and RCM multi-model simulations. Natural Hazards and Earth System Sciences, 2011, 11, 1351-1370.	1.5	98
61	The variable link between PNA and NAO in observations and in multi-century CGCM simulations. Climate Dynamics, 2011, 36, 337-354.	1.7	58
62	The Skill of Seasonal Ensemble Prediction Systems to Forecast Wintertime Windstorm Frequency over the North Atlantic and Europe. Monthly Weather Review, 2011, 139, 3052-3068.	0.5	20
63	Examination of wind storms over Central Europe with respect to circulation weather types and NAO phases. International Journal of Climatology, 2010, 30, 1289-1300.	1.5	79
64	Cyclones causing wind storms in the Mediterranean: characteristics, trends and links to large-scale patterns. Natural Hazards and Earth System Sciences, 2010, 10, 1379-1391.	1.5	109
65	European storminess and associated circulation weather types: future changes deduced from a multi-model ensemble of GCM simulations. Climate Research, 2010, 42, 27-43.	0.4	77
66	Benefits and limitations of regional multi-model ensembles for storm loss estimations. Climate Research, 2010, 44, 211-225.	0.4	29
67	Extra-tropical cyclones in the present and future climate: a review. Theoretical and Applied Climatology, 2009, 96, 117-131.	1.3	430
68	Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO. Climate Dynamics, 2009, 32, 711-737.	1.7	191
69	On the development of strong ridge episodes over the eastern North Atlantic. Geophysical Research Letters, 2009, 36, .	1.5	35
70	Changing Northern Hemisphere Storm Tracks in an Ensemble of IPCC Climate Change Simulations. Journal of Climate, 2008, 21, 1669-1679.	1.2	207
71	Development and application of an objective storm severity measure for the Northeast Atlantic region. Meteorologische Zeitschrift, 2008, 17, 575-587.	0.5	85
72	Property loss potentials for European midlatitude storms in a changing climate. Geophysical Research Letters, 2007, 34, .	1.5	80

#	ARTICLE	IF	CITATIONS
73	Modelling the impact of climate extremes: an overview of the MICE project. <i>Climatic Change</i> , 2007, 81, 163-177.	1.7	58
74	European winter precipitation extremes and large-scale circulation: a coupled model and its scenarios. <i>Theoretical and Applied Climatology</i> , 2007, 87, 85-102.	1.3	56
75	Changes in storm track and cyclone activity in three SRES ensemble experiments with the ECHAM5/MPI-OM1 GCM. <i>Climate Dynamics</i> , 2007, 29, 195-210.	1.7	199
76	Assessment of winter cyclone activity in a transient ECHAM4-OPYC3 GHG experiment. <i>Meteorologische Zeitschrift</i> , 2006, 15, 279-291.	0.5	39
77	Analysis of frequency and intensity of European winter storm events from a multi-model perspective, at synoptic and regional scales. <i>Climate Research</i> , 2006, 31, 59-74.	0.4	110
78	Sensitivities of a cyclone detection and tracking algorithm: individual tracks and climatology. <i>Meteorologische Zeitschrift</i> , 2005, 14, 823-838.	0.5	160
79	Summer Floods in Central Europe – Climate Change Track?. <i>Natural Hazards</i> , 2005, 36, 165-189.	1.6	186
80	The 2003 European summer heatwaves and drought -synoptic diagnosis and impacts. <i>Weather</i> , 2004, 59, 209-216.	0.6	374
81	On the relationship between cyclones and extreme windstorm events over Europe under climate change. <i>Global and Planetary Change</i> , 2004, 44, 181-193.	1.6	168
82	The central European floods of August 2002: Part 1 – Rainfall periods and flood development. <i>Weather</i> , 2003, 58, 371-377.	0.6	208
83	The central European floods of August 2002: Part 2 -Synoptic causes and considerations with respect to climatic change. <i>Weather</i> , 2003, 58, 434-442.	0.6	108
84	Decadal changes in the link between El Niño and springtime North Atlantic oscillation and European-North African rainfall. <i>International Journal of Climatology</i> , 2003, 23, 1293-1311.	1.5	97
85	Potential impacts of climate change on groundwater recharge and streamflow in a central European low mountain range. <i>Journal of Hydrology</i> , 2003, 284, 244-252.	2.3	371
86	Groundwater recharge in Northrhine-Westfalia predicted by a statistical model for greenhouse gas scenarios. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 853-861.	0.3	22
87	The Role of Ocean Dynamics for Low-Frequency Fluctuations of the NAO in a Coupled Ocean-Atmosphere GCM. <i>Journal of Climate</i> , 2000, 13, 2536-2549.	1.2	21
88	Changing cyclones and surface wind speeds over the North Atlantic and Europe in a transient GHG experiment. <i>Climate Research</i> , 2000, 15, 109-122.	0.4	107
89	A shift of the NAO and increasing storm track activity over Europe due to anthropogenic greenhouse gas forcing. <i>Climate Dynamics</i> , 1999, 15, 551-559.	1.7	318
90	Dependence of winter precipitation over Portugal on NAO and baroclinic wave activity. <i>International Journal of Climatology</i> , 1999, 19, 379-390.	1.5	107

#	ARTICLE	IF	CITATIONS
91	Midwinter Suppression of Northern Hemisphere Storm Track Activity in the Real Atmosphere and in GCM Experiments. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 1589-1599.	0.6	55
92	Verifikation einer Klimatologie objektiv bestimmter Nordatlantik-Zyklonen. <i>Meteorologische Zeitschrift</i> , 1996, 5, 24-30.	0.5	28
93	Faster Determination of the Intraseasonal Variability of Storm Tracks Using Murakami's Recursive Filter. <i>Monthly Weather Review</i> , 1995, 123, 578-581.	0.5	26
94	The effect of a regional increase in ocean surface roughness on the tropospheric circulation: a GCM experiment. <i>Climate Dynamics</i> , 1993, 8, 277-285.	1.7	5
95	Energy cycle diagnosis of two versions of a low resolution GCM. <i>Meteorology and Atmospheric Physics</i> , 1992, 50, 197-210.	0.9	4
96	The global energy cycle of stationary and transient atmospheric waves: Results from ECMWF analyses. <i>Meteorology and Atmospheric Physics</i> , 1991, 45, 125-138.	0.9	39
97	Windstorms, the Most Costly Natural Hazard in Europe. , 0, , 109-120.		13
98	Review Article: Atmospheric conditions inducing extreme precipitation over the Eastern and Western Mediterranean. , 0, , .		2