Uwe Ulbrich

List of Publications by Year
in descending order

98 papers	6,871 citations	66343 42 h-index	64796 79 g-index
148 all docs	148 docs citations	148 times ranked	6734 citing authors

#	Article	IF	Citations
1	Extra-tropical cyclones in the present and future climate: a review. Theoretical and Applied Climatology, 2009, 96, 117-131.	2.8	430
2	IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. Bulletin of the American Meteorological Society, 2013, 94, 529-547.	3.3	391
3	The 2003 European summer heatwaves and drought -synoptic diagnosis and impacts. Weather, 2004, 59, 209-216.	0.7	374
4	Potential impacts of climate change on groundwater recharge and streamflow in a central European low mountain range. Journal of Hydrology, 2003, 284, 244-252.	5.4	371
5	A shift of the NAO and increasing storm track activity over Europe due to anthropogenic greenhouse gas forcing. Climate Dynamics, 1999, 15, 551-559.	3.8	318
6	Floods and climate: emerging perspectives for flood risk assessment and management. Natural Hazards and Earth System Sciences, 2014, 14, 1921-1942.	3.6	239
7	The central European floods of August 2002: Part 1 â€" Rainfall periods and flood development. Weather, 2003, 58, 371-377.	0.7	208
8	Changing Northern Hemisphere Storm Tracks in an Ensemble of IPCC Climate Change Simulations. Journal of Climate, 2008, 21, 1669-1679.	3.2	207
9	Changes in storm track and cyclone activity in three SRES ensemble experiments with the ECHAM5/MPI-OM1 GCM. Climate Dynamics, 2007, 29, 195-210.	3.8	199
10	Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO. Climate Dynamics, 2009, 32, 711-737.	3.8	191
11	Summer Floods in Central Europe â€" Climate Change Track?. Natural Hazards, 2005, 36, 165-189.	3.4	186
12	On the relationship between cyclones and extreme windstorm events over Europe under climate change. Global and Planetary Change, 2004, 44, 181-193.	3.5	168
13	Sensitivities of a cyclone detection and tracking algorithm: individual tracks and climatology. Meteorologische Zeitschrift, 2005, 14, 823-838.	1.0	160
14	The climate of the Mediterranean region: research progress and climate change impacts. Regional Environmental Change, 2014, 14, 1679-1684.	2.9	115
15	Analysis of frequency and intensity of European winter storm events from a multi-model perspective, at synoptic and regional scales. Climate Research, 2006, 31, 59-74.	1.1	110
16	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.	3.6	109
17	The central European floods of August 2002: Part 2 -Synoptic causes and considerations with respect to climatic change. Weather, 2003, 58, 434-442.	0.7	108
18	Dependence of winter precipitation over Portugal on NAO and baroclinic wave activity. International Journal of Climatology, 1999, 19, 379-390.	3.5	107

#	Article	IF	Citations
19	Changing cyclones and surface wind speeds over the North Atlantic and Europe in a transient GHG experiment. Climate Research, 2000, 15, 109-122.	1.1	107
20	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.	3.6	98
21	Decadal changes in the link between El NiÃ±o and springtime North Atlantic oscillation and European-North African rainfall. International Journal of Climatology, 2003, 23, 1293-1311.	3.5	97
22	Artificial intelligence reconstructs missing climate information. Nature Geoscience, 2020, 13, 408-413.	12.9	94
23	Reanalysis suggests long-term upward trends in European storminess since 1871. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	92
24	Review Article: Atmospheric conditions inducing extreme precipitation over the eastern and western Mediterranean. Natural Hazards and Earth System Sciences, 2015, 15, 2525-2544.	3.6	87
25	On the relationship between hydro-meteorological patterns and flood types. Journal of Hydrology, 2014, 519, 3249-3262.	5.4	86
26	Development and application of an objective storm severity measure for the Northeast Atlantic region. Meteorologische Zeitschrift, 2008, 17, 575-587.	1.0	85
27	Property loss potentials for European midlatitude storms in a changing climate. Geophysical Research Letters, 2007, 34, .	4.0	80
28	Examination of wind storms over Central Europe with respect to circulation weather types and NAO phases. International Journal of Climatology, 2010, 30, 1289-1300.	3.5	79
29	Objective climatology of cyclones in the Mediterranean region: a consensus view among methods with different system identification and tracking criteria. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 29391.	1.7	79
30	Climate of the Mediterranean. , 2012, , 301-346.		78
31	MiKlip: A National Research Project on Decadal Climate Prediction. Bulletin of the American Meteorological Society, 2016, 97, 2379-2394.	3.3	78
32	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.	1.0	77
33	European storminess and associated circulation weather types: future changes deduced from a multi-model ensemble of GCM simulations. Climate Research, 2010, 42, 27-43.	1.1	77
34	Mediterranean cyclones and windstorms in a changing climate. Regional Environmental Change, 2014, 14, 1873-1890.	2.9	64
35	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.	3.3	62
36	Severe marine storms in the Northern Adriatic: Characteristics and trends. Physics and Chemistry of the Earth, 2012, 40-41, 93-105.	2.9	60

#	Article	IF	Citations
37	Modelling the impact of climate extremes: an overview of the MICE project. Climatic Change, 2007, 81, 163-177.	3.6	58
38	The variable link between PNA and NAO in observations and in multi-century CGCM simulations. Climate Dynamics, 2011, 36, 337-354.	3.8	58
39	European winter precipitation extremes and large-scale circulation: a coupled model and its scenarios. Theoretical and Applied Climatology, 2007, 87, 85-102.	2.8	56
40	Midwinter Suppression of Northern Hemisphere Storm Track Activity in the Real Atmosphere and in GCM Experiments. Journals of the Atmospheric Sciences, 1997, 54, 1589-1599.	1.7	55
41	Increasing frequencies and changing characteristics of heavy precipitation events threatening infrastructure in Europe under climate change. Natural Hazards and Earth System Sciences, 2017, 17, 1177-1190.	3.6	51
42	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.	3.6	50
43	Introduction: Mediterranean Climateâ€"Background Information. , 2012, , xxxv-xc.		49
44	Perception and use of uncertainty in severe weather warnings by emergency services in Germany. Atmospheric Research, 2015, 158-159, 292-301.	4.1	46
45	Different longâ€term trends of extraâ€tropical cyclones and windstorms in <scp>ERAâ€20C</scp> and <scp>NOAAâ€20CR</scp> reanalyses. Atmospheric Science Letters, 2016, 17, 586-595.	1.9	46
46	The global energy cycle of stationary and transient atmospheric waves: Results from ECMWF analyses. Meteorology and Atmospheric Physics, 1991, 45, 125-138.	2.0	39
47	Assessment of winter cyclone activity in a transient ECHAM4-OPYC3 GHG experiment. Meteorologische Zeitschrift, 2006, 15, 279-291.	1.0	39
48	Linking teleconnection patterns to European temperatureÂâ€" aÂmultiple linear regression model. Meteorologische Zeitschrift, 2015, 24, 411-423.	1.0	38
49	The Tropical Transition of the October 1996 Medicane in the Western Mediterranean Sea: A Warm Seclusion Event. Monthly Weather Review, 2017, 145, 2575-2595.	1.4	36
50	On the development of strong ridge episodes over the eastern North Atlantic. Geophysical Research Letters, 2009, 36, .	4.0	35
51	Probabilistic evaluation of decadal prediction skill regarding Northern Hemisphere winter storms. Meteorologische Zeitschrift, 2016, 25, 721-738.	1.0	35
52	Vb cyclones and associated rainfall extremes over Central Europe under present day and climate change conditions. Meteorologische Zeitschrift, 2013, 22, 649-660.	1.0	34
53	Southern Hemisphere winter cyclone activity under recent and future climate conditions in multiâ€model <scp>AOGCM</scp> simulations. International Journal of Climatology, 2014, 34, 3400-3416.	3.5	34
54	Program focuses on climate of the Mediterranean region. Eos, 2012, 93, 105-106.	0.1	31

#	Article	IF	Citations
55	Benefits and limitations of regional multi-model ensembles for storm loss estimations. Climate Research, 2010, 44, 211-225.	1.1	29
56	Implications of Winter NAO Flavors on Present and Future European Climate. Climate, 2020, 8, 13.	2.8	28
57	Verifikation einer Klimatologie objektiv bestimmter Nordatlantik-Zyklonen. Meteorologische Zeitschrift, 1996, 5, 24-30.	1.0	28
58	Faster Determination of the Intraseasonal Variability of Storm Tracks Using Murakami's Recursive Filter. Monthly Weather Review, 1995, 123, 578-581.	1.4	26
59	The Diurnal Nature of Future Extreme Precipitation Intensification. Geophysical Research Letters, 2019, 46, 7680-7689.	4.0	25
60	Future Climate Projections. Advances in Global Change Research, 2013, , 53-118.	1.6	24
61	Projections of global warming-induced impacts on winter storm losses in the German private household sector. Climatic Change, 2013, 121, 195-207.	3.6	23
62	Groundwater recharge in Northrhine-Westfalia predicted by a statistical model for greenhouse gas scenarios. Physics and Chemistry of the Earth, 2001, 26, 853-861.	0.3	22
63	The Role of Ocean Dynamics for Low-Frequency Fluctuations of the NAO in a Coupled Oceanâ€"Atmosphere GCM. Journal of Climate, 2000, 13, 2536-2549.	3.2	21
64	Assessing the impact of sea surface temperatures on a simulated medicane using ensemble simulations. Natural Hazards and Earth System Sciences, 2019, 19, 941-955.	3.6	21
65	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.	1.4	20
66	Evaluating decadal predictions of northern hemispheric cyclone frequencies. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 22830.	1.7	20
67	Modelling serial clustering and interâ€annual variability of European winter windstorms based on largeâ€scale drivers. International Journal of Climatology, 2018, 38, 3044-3057.	3.5	20
68	Systematic largeâ€scale secondary circulations in a regional climate model. Geophysical Research Letters, 2015, 42, 4142-4149.	4.0	19
69	Parametric decadal climate forecast recalibration (DeFoReSt 1.0). Geoscientific Model Development, 2018, 11, 351-368.	3.6	19
70	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.	4.9	19
71	An approach to build an event set of European windstorms based on ECMWFÂEPS. Natural Hazards and Earth System Sciences, 2016, 16, 255-268.	3.6	18
72	Kinematic vorticity number â€" a tool for estimating vortex sizes and circulations. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 29464.	1.7	17

#	Article	IF	Citations
73	Subhourly rainfall in a convection-permitting model. Environmental Research Letters, 2020, 15, 034031.	5.2	17
74	Estimating uncertainties from high resolution simulations of extreme wind storms and consequences for impacts. Meteorologische Zeitschrift, 2016, 25, 531-541.	1.0	14
75	Windstorms, the Most Costly Natural Hazard in Europe. , 0, , 109-120.		13
76	Discontinuous Daily Temperatures in the WATCH Forcing Datasets. Journal of Hydrometeorology, 2015, 16, 465-472.	1.9	13
77	Preface: Understanding dynamics and current developments of climate extremes in the Mediterranean region. Natural Hazards and Earth System Sciences, 2014, 14, 309-316.	3.6	12
78	Present and future diurnal hourly precipitation in 0.11Â° EURO-CORDEX models and at convection-permitting resolution. Environmental Research Communications, 2021, 3, 055002.	2.3	12
79	A classification algorithm for selective dynamical downscaling of precipitation extremes. Hydrology and Earth System Sciences, 2018, 22, 4183-4200.	4.9	11
80	Introduction to Freva â€“ A Free Evaluation System Framework for Earth System Modeling. Journal of Open Research Software, 2021, 9, 13.	5.9	11
81	Seasonal Cycle in German Daily Precipitation Extremes. Meteorologische Zeitschrift, 2018, 27, 3-13.	1.0	10
82	Past and Current Climate Changes in the Mediterranean Region. Advances in Global Change Research, 2013, , 9-51.	1.6	9
83	An analysis of uncertainties and skill in forecasts of winter storm losses. Natural Hazards and Earth System Sciences, 2016, 16, 2391-2402.	3.6	9
84	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.	3.8	8
85	Improvement in the decadal prediction skill of the North Atlantic extratropical winter circulation through increased model resolution. Earth System Dynamics, 2019, 10, 901-917.	7.1	7
86	High-frequency noise caused by wind in large ring laser gyroscope data. Journal of Seismology, 2012, 16, 777-786.	1.3	6
87	Identification of storm surge events over the German Bight from atmospheric reanalysis and climate model data. Natural Hazards and Earth System Sciences, 2015, 15, 1437-1447.	3.6	6
88	Predictive modeling of hourly probabilities for weather-related road accidents. Natural Hazards and Earth System Sciences, 2020, 20, 2857-2871.	3.6	6
89	The effect of a regional increase in ocean surface roughness on the tropospheric circulation: a GCM experiment. Climate Dynamics, 1993, 8, 277-285.	3.8	5
90	Quantifying the extremity of windstorms for regions featuring infrequent events. Atmospheric Science Letters, 2017, 18, 315-322.	1.9	5

#	Article	IF	Citations
91	Recalibrating decadal climate predictions â€" what is an adequate model for the drift?. Geoscientific Model Development, 2021, 14, 4335-4355.	3.6	5
92	Energy cycle diagnosis of two versions of a low resolution GCM. Meteorology and Atmospheric Physics, 1992, 50, 197-210.	2.0	4
93	Projected Changeâ€"Atmosphere. Regional Climate Studies, 2016, , 149-173.	1.2	4
94	Verification and process oriented validation of the MiKlip decadal prediction system. Meteorologische Zeitschrift, 2016, 25, 629-630.	1.0	3
95	Large-scale secondary circulations in a limited area model â€" the impact of lateral boundaries and resolution. Tellus, Series A: Dynamic Meteorology and Oceanography, 2018, 70, 1-15.	1.7	2
96	Review Article: Atmospheric conditions inducing extreme precipitation over the Eastern and Western Mediterranean. , 0, , .		2
97	Modeling hourly weather-related road traffic variations for different vehicle types in Germany. European Transport Research Review, 2022, 14, .	4.8	2
98	Quantification of meteorological conditions for rockfall triggers in Germany. Natural Hazards and Earth System Sciences, 2022, 22, 2117-2130.	3.6	2