

# Michael Kunz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2491962/publications.pdf>

Version: 2024-02-01

45  
papers

2,299  
citations

218592

26  
h-index

243529

44  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Severe thunderstorms with large hail across Germany in June 2019. <i>Weather</i> , 2021, 76, 228-237.	0.6	15
2	Radar-based assessment of hail frequency in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 683-701.	1.5	15
3	The effects of climate change on hailstorms. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 213-226.	12.2	57
4	Understanding Hail in the Earth System. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000665.	9.0	58
5	Comparing the impact of environmental conditions and microphysics on the forecast uncertainty of deep convective clouds and hail. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2201-2219.	1.9	22
6	Hailstorms in the Alpine region: Diurnal cycle, 4D characteristics, and the nowcasting potential of lightning properties. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 4170-4194.	1.0	13
7	Impact Forecasting to Support Emergency Management of Natural Hazards. <i>Reviews of Geophysics</i> , 2020, 58, e2020RG000704.	9.0	93
8	Review article: Natural hazard risk assessments at the global scale. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1069-1096.	1.5	132
9	Ambient conditions prevailing during hail events in central Europe. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1867-1887.	1.5	21
10	The role of large-scale dynamics in an exceptional sequence of severe thunderstorms in Europe May-June 2018. <i>Weather and Climate Dynamics</i> , 2020, 1, 325-348.	1.2	24
11	Flood-related extreme precipitation in southwestern Germany: development of a two-dimensional stochastic precipitation model. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1083-1102.	1.9	13
12	One Step at a Time: How Model Time Step Significantly Affects Convection-Permitting Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 641-658.	1.3	26
13	Investigation of the temporal variability of thunderstorms in central and western Europe and the relation to large-scale flow and teleconnection patterns. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 3644-3666.	1.0	21
14	A Long-Term Overshooting Convective Cloud-Top Detection Database over Australia Derived from MTSAT Japanese Advanced Meteorological Imager Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 937-951.	0.6	21
15	Interaction of severe convective gusts with a street canyon. <i>Urban Climate</i> , 2018, 23, 71-90.	2.4	17
16	The severe hailstorm in southwest Germany on 28 July 2013: characteristics, impacts and meteorological conditions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 231-250.	1.0	48
17	Using Emulators to Understand the Sensitivity of Deep Convective Clouds and Hail to Environmental Conditions. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3103-3122.	1.3	16
18	Preface: Natural hazard event analysis for risk reduction and adaptation. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 963-968.	1.5	6

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19	Challenges and Recent Advances in Hail Research. Bulletin of the American Meteorological Society, 2018, 99, ES51-ES54.	1.7	25
20	Hail frequency estimation across Europe based on a combination of overshooting top detections and the ERA-INTERIM reanalysis. Atmospheric Research, 2017, 198, 34-43.	1.8	60
21	Spatiotemporal variability of lightning activity in Europe and the relation to the North Atlantic Oscillation teleconnection pattern. Natural Hazards and Earth System Sciences, 2017, 17, 1319-1336.	1.5	29
22	Statistical characteristics of convective wind gusts in Germany. Natural Hazards and Earth System Sciences, 2017, 17, 957-969.	1.5	32
23	Exceptional sequence of severe thunderstorms and related flash floods in May and June 2016 in Germany – Part 1: Meteorological background. Natural Hazards and Earth System Sciences, 2016, 16, 2835-2850.	1.5	65
24	Review of the flood risk management system in Germany after the major flood in 2013. Ecology and Society, 2016, 21, .	1.0	117
25	Spatial and temporal distribution of hailstorms in the Alpine region: a long-term, high resolution, radar-based analysis. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1590-1604.	1.0	89
26	Hail statistics for Germany derived from single-polarization radar data. Atmospheric Research, 2016, 178-179, 459-470.	1.8	31
27	Hail observations and hailstorm characteristics in Europe: A review. Atmospheric Research, 2016, 176-177, 159-184.	1.8	148
28	Hail potential in Europe based on a regional climate model hindcast. Geophysical Research Letters, 2015, 42, 10,904.	1.5	30
29	A collection of sub-daily pressure and temperature observations for the early instrumental period with a focus on the “year without a summer” 1816. Climate of the Past, 2015, 11, 1027-1047.	1.3	37
30	What made the June 2013 flood in Germany an exceptional event? A hydro-meteorological evaluation. Hydrology and Earth System Sciences, 2015, 19, 309-327.	1.9	123
31	Detection of hail signatures from single-polarization C-band radar reflectivity. Atmospheric Research, 2015, 153, 565-577.	1.8	43
32	Development and application of a logistic model to estimate the past and future hail potential in Germany. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3939-3956.	1.2	40
33	The extreme flood in June 2013 in Germany. Houille Blanche, 2014, 100, 5-10.	0.3	59
34	A new physically based stochastic event catalog for hail in Europe. Natural Hazards, 2014, 73, 1625-1645.	1.6	68
35	Recent trends and variabilities of convective parameters relevant for hail events in Germany and Europe. Atmospheric Research, 2013, 123, 211-228.	1.8	87
36	Investigation of superstorm Sandy 2012 in a multi-disciplinary approach. Natural Hazards and Earth System Sciences, 2013, 13, 2579-2598.	1.5	71

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37	Long-term trends of hail-related weather types in an ensemble of regional climate models using a Bayesian approach. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
38	Characteristics of Large-Scale Orographic Precipitation in a Linear Perspective. <i>Journal of Hydrometeorology</i> , 2011, 12, 27-44.	0.7	12
39	Sensitivity of flow dynamics and orographic precipitation to changing ambient conditions in idealised model simulations. <i>Meteorologische Zeitschrift</i> , 2011, 20, 199-215.	0.5	11
40	High-resolution assessment of the hail hazard over complex terrain from radar and insurance data. <i>Meteorologische Zeitschrift</i> , 2010, 19, 427-439.	0.5	59
41	Recent trends of thunderstorm and hailstorm frequency and their relation to atmospheric characteristics in southwest Germany. <i>International Journal of Climatology</i> , 2009, 29, 2283-2297.	1.5	132
42	The Convective Storm Initiation Project. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 1939-1956.	1.7	110
43	The skill of convective parameters and indices to predict isolated and severe thunderstorms. <i>Natural Hazards and Earth System Sciences</i> , 2007, 7, 327-342.	1.5	133
44	A nocturnal cold front over complex terrain and its influence on the ozone concentrations at the ground. <i>Meteorologische Zeitschrift</i> , 1996, 5, 308-317.	0.5	2
45	Review article: Natural hazard risk assessments at the global scale. , 0, , .		0