

Andreas Prein

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

4,853
citations

218592

26
h-index

189801

50
g-index

65
all docs

65
docs citations

65
times ranked

4731
citing authors

#	ARTICLE	IF	CITATIONS
1	The conterminous United States are projected to become more prone to flash floods in a high-end emissions scenario. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	17
2	Sub-Seasonal Predictability of North American Monsoon Precipitation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
3	The Character and Changing Frequency of Extreme California Fire Weather. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	2
4	On the role of atmospheric simulations horizontal grid spacing for flood modeling. <i>Climate Dynamics</i> , 2022, 59, 3167-3174.	1.7	3
5	The response of tropical cyclone intensity to changes in environmental temperature. <i>Weather and Climate Dynamics</i> , 2022, 3, 693-711.	1.2	3
6	Populated regional climate models (Pop-RCMs): The next frontier in regional climate modeling. , 2022, 1, e0000042.		3
7	New hourly extreme precipitation regions and regional annual probability estimates for the <scp>UK</scp>. <i>International Journal of Climatology</i> , 2021, 41, 582-600.	1.5	16
8	Anthropogenic intensification of short-duration rainfall extremes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 107-122.	12.2	279
9	Added value of kilometer-scale modeling over the third pole region: a CORDEX-CPTP pilot study. <i>Climate Dynamics</i> , 2021, 57, 1673-1687.	1.7	60
10	Dynamic and thermodynamic impacts of climate change on organized convection in Alaska. <i>Climate Dynamics</i> , 2021, 56, 2569-2593.	1.7	8
11	Towards advancing scientific knowledge of climate change impacts on short-duration rainfall extremes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190542.	1.6	56
12	Intensification of short-duration rainfall extremes and implications for flood risk: current state of the art and future directions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190541.	1.6	44
13	Sensitivity of organized convective storms to model grid spacing in current and future climates. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190546.	1.6	52
14	Challenges and outlook for convection-permitting climate modelling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190547.	1.6	67
15	U.S. Extreme Precipitation Weather Types Increased in Frequency During the 20th Century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034287.	1.2	21
16	Dryline characteristics in North America's historical and future climates. <i>Climate Dynamics</i> , 2021, 57, 2171-2188.	1.7	6
17	A Benchmark to Test Generalization Capabilities of Deep Learning Methods to Classify Severe Convective Storms in a Changing Climate. <i>Earth and Space Science</i> , 2021, 8, e2020EA001490.	1.1	15
18	A new mechanism for warm-season precipitation response to global warming based on convection-permitting simulations. <i>Climate Dynamics</i> , 2020, 55, 343-368.	1.7	84

#	ARTICLE	IF	CITATIONS
19	Simulating the convective precipitation diurnal cycle in North America's current and future climate. <i>Climate Dynamics</i> , 2020, 55, 369-382.	1.7	33
20	Simulating North American mesoscale convective systems with a convection-permitting climate model. <i>Climate Dynamics</i> , 2020, 55, 95-110.	1.7	125
21	Linking Global Changes of Snowfall and Wet-Bulb Temperature. <i>Journal of Climate</i> , 2020, 33, 39-59.	1.2	21
22	Recent Trends in the Near-Surface Climatology of the Northern North American Great Plains. <i>Journal of Climate</i> , 2020, 33, 461-475.	1.2	12
23	Kilometer-scale modeling projects a tripling of Alaskan convective storms in future climate. <i>Climate Dynamics</i> , 2020, 55, 3543-3564.	1.7	20
24	Extreme-value analysis for the characterization of extremes in water resources: A generalized workflow and case study on New Mexico monsoon precipitation. <i>Weather and Climate Extremes</i> , 2020, 29, 100260.	1.6	14
25	Updraft and Downdraft Core Size and Intensity as Revealed by Radar Wind Profilers: MCS Observations and Idealized Model Comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031774.	1.2	34
26	Retrieval of Cloud Liquid Water Using Microwave Signals from LEO Satellites: A Feasibility Study through Simulations. <i>Atmosphere</i> , 2020, 11, 460.	1.0	5
27	Increased melting level height impacts surface precipitation phase and intensity. <i>Nature Climate Change</i> , 2020, 10, 771-776.	8.1	47
28	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
29	Uncertainties in Future U.S. Extreme Precipitation From Downscaled Climate Projections. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086797.	1.5	59
30	Mesoscale Convective System Precipitation Characteristics over East Asia. Part I: Regional Differences and Seasonal Variations. <i>Journal of Climate</i> , 2020, 33, 9271-9286.	1.2	26
31	Moisture Attribution and Sensitivity Analysis of a Winter Tornado Outbreak. <i>Weather and Forecasting</i> , 2020, 35, 1263-1288.	0.5	8
32	Investigating the sensitivity to resolving aerosol interactions in downscaling regional model experiments with WRFv3.8.1 over Europe. <i>Geoscientific Model Development</i> , 2020, 13, 2511-2532.	1.3	12
33	Separating Dynamic and Thermodynamic Impacts of Climate Change on Daytime Convective Development over Land. <i>Journal of Climate</i> , 2019, 32, 5213-5234.	1.2	9
34	Simulating North American Weather Types With Regional Climate Models. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	29
35	Can We Constrain Uncertainty in Hydrologic Cycle Projections?. <i>Geophysical Research Letters</i> , 2019, 46, 3911-3916.	1.5	23
36	Projected increases and shifts in rain-on-snow flood risk over western North America. <i>Nature Climate Change</i> , 2018, 8, 808-812.	8.1	261

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37	Global estimates of damaging hail hazard. <i>Weather and Climate Extremes</i> , 2018, 22, 10-23.	1.6	73
38	Impacts of uncertainties in European gridded precipitation observations on regional climate analysis. <i>International Journal of Climatology</i> , 2017, 37, 305-327.	1.5	194
39	The future intensification of hourly precipitation extremes. <i>Nature Climate Change</i> , 2017, 7, 48-52.	8.1	591
40	Future Changes in European Severe Convection Environments in a Regional Climate Model Ensemble. <i>Journal of Climate</i> , 2017, 30, 6771-6794.	1.2	82
41	Continental-scale convection-permitting modeling of the current and future climate of North America. <i>Climate Dynamics</i> , 2017, 49, 71-95.	1.7	362
42	Clustering of Observed Diurnal Cycles of Precipitation over the United States for Evaluation of a WRF Multiphysics Regional Climate Ensemble. <i>Journal of Climate</i> , 2017, 30, 9267-9286.	1.2	24
43	Increased rainfall volume from future convective storms in the US. <i>Nature Climate Change</i> , 2017, 7, 880-884.	8.1	211
44	Challenges and Advances in Convection-Permitting Climate Modeling. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1027-1030.	1.7	30
45	Climate change impacts on the power generation potential of a European mid-century wind farms scenario. <i>Environmental Research Letters</i> , 2016, 11, 034013.	2.2	120
46	Running dry: The U.S. Southwest's drift into a drier climate state. <i>Geophysical Research Letters</i> , 2016, 43, 1272-1279.	1.5	119
47	Precipitation in the EURO-CORDEX 0.11° and 0.44° simulations: high resolution, high benefits?. <i>Climate Dynamics</i> , 2016, 46, 383-412.	1.7	215
48	A review on regional convection-permitting climate modeling: Demonstrations, prospects, and challenges. <i>Reviews of Geophysics</i> , 2015, 53, 323-361.	9.0	907
49	Evaluation of CMIP5 Models in the Context of Dynamical Downscaling over Europe. <i>Journal of Climate</i> , 2015, 28, 5575-5582.	1.2	32
50	Importance of Regional Climate Model Grid Spacing for the Simulation of Heavy Precipitation in the Colorado Headwaters. <i>Journal of Climate</i> , 2013, 26, 4848-4857.	1.2	102
51	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. <i>Advances in Science and Research</i> , 0, 15, 117-126.	1.0	59