

# Karin van der Wiel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2091123/publications.pdf>

Version: 2024-02-01

45  
papers

2,890  
citations

218677

26  
h-index

233421

45  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3821  
citing authors

#	ARTICLE	IF	CITATIONS
1	EC-Earth V2.2: description and validation of a new seamless earth system prediction model. <i>Climate Dynamics</i> , 2012, 39, 2611-2629.	3.8	511
2	Attribution of extreme rainfall from Hurricane Harvey, August 2017. <i>Environmental Research Letters</i> , 2017, 12, 124009.	5.2	330
3	Minimal influence of reduced Arctic sea ice on coincident cold winters in mid-latitudes. <i>Nature Climate Change</i> , 2019, 9, 697-704.	18.8	199
4	Rapid attribution of the August 2016 flood-inducing extreme precipitation in south Louisiana to climate change. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 897-921.	4.9	136
5	Contribution of climatic changes in mean and variability to monthly temperature and precipitation extremes. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	122
6	Tropical cyclone sensitivities to CO2 doubling: roles of atmospheric resolution, synoptic variability and background climate changes. <i>Climate Dynamics</i> , 2019, 53, 5999-6033.	3.8	114
7	A protocol for probabilistic extreme event attribution analyses. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2020, 6, 177-203.	0.9	103
8	Added Value of Large Ensemble Simulations for Assessing Extreme River Discharge in a 2°C Warmer World. <i>Geophysical Research Letters</i> , 2019, 46, 2093-2102.	4.0	88
9	Pathways and pitfalls in extreme event attribution. <i>Climatic Change</i> , 2021, 166, 1.	3.6	86
10	Meteorological conditions leading to extreme low variable renewable energy production and extreme high energy shortfall. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 261-275.	16.4	83
11	The influence of weather regimes on European renewable energy production and demand. <i>Environmental Research Letters</i> , 2019, 14, 094010.	5.2	80
12	The Resolution Dependence of Contiguous U.S. Precipitation Extremes in Response to CO2 Forcing. <i>Journal of Climate</i> , 2016, 29, 7991-8012.	3.2	74
13	Climate change increases the probability of heavy rains in Northern England/Southern Scotland like those of storm Desmond – a real-time event attribution revisited. <i>Environmental Research Letters</i> , 2018, 13, 024006.	5.2	73
14	Strong future increases in Arctic precipitation variability linked to poleward moisture transport. <i>Science Advances</i> , 2020, 6, eaax6869.	10.3	73
15	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. <i>Earth's Future</i> , 2021, 9, e2021EF002340.	6.3	66
16	A dynamical framework for the origin of the diagonal South Pacific and South Atlantic Convergence Zones. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1997-2010.	2.7	60
17	South Pacific Convergence Zone dynamics, variability and impacts in a changing climate. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 530-543.	29.7	49
18	Disentangling the impacts of human and environmental change on catchment response during Hurricane Harvey. <i>Environmental Research Letters</i> , 2019, 14, 124023.	5.2	47

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19	Ensemble climate-impact modelling: extreme impacts from moderate meteorological conditions. <i>Environmental Research Letters</i> , 2020, 15, 034050.	5.2	47
20	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1409-1429.	4.9	46
21	A globally consistent local-scale assessment of future tropical cyclone risk. <i>Science Advances</i> , 2022, 8, eabm8438.	10.3	41
22	Regional differentiation in climate change induced drought trends in the Netherlands. <i>Environmental Research Letters</i> , 2020, 15, 094081.	5.2	37
23	Why the South Pacific Convergence Zone is diagonal. <i>Climate Dynamics</i> , 2016, 46, 1683-1698.	3.8	34
24	Impact of precipitation and increasing temperatures on drought trends in eastern Africa. <i>Earth System Dynamics</i> , 2021, 12, 17-35.	7.1	32
25	Overcoming the disconnect between energy system and climate modeling. <i>Joule</i> , 2022, 6, 1405-1417.	24.0	31
26	Identifying meteorological drivers of extreme impacts: an application to simulated crop yields. <i>Earth System Dynamics</i> , 2021, 12, 151-172.	7.1	30
27	Storylines of weather-induced crop failure events under climate change. <i>Earth System Dynamics</i> , 2021, 12, 1503-1527.	7.1	27
28	100-Year Lower Mississippi Floods in a Global Climate Model: Characteristics and Future Changes. <i>Journal of Hydrometeorology</i> , 2018, 19, 1547-1563.	1.9	24
29	Physical storylines of future European drought events like 2018 based on ensemble climate modelling. <i>Weather and Climate Extremes</i> , 2021, 33, 100350.	4.1	23
30	Causes and Probability of Occurrence of Extreme Precipitation Events like Chennai 2015. <i>Journal of Climate</i> , 2018, 31, 3831-3848.	3.2	21
31	The impact of hydrological model structure on the simulation of extreme runoff events. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 961-976.	3.6	21
32	Shifting patterns of mild weather in response to projected radiative forcing. <i>Climatic Change</i> , 2017, 140, 649-658.	3.6	18
33	Characteristics of colliding sea breeze gravity current fronts: a laboratory study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1434-1441.	2.7	16
34	A seven-fold rise in the probability of exceeding the observed hottest summer in India in a 2 °C warmer world. <i>Environmental Research Letters</i> , 2020, 15, 044028.	5.2	16
35	IGCM4: a fast, parallel and flexible intermediate climate model. <i>Geoscientific Model Development</i> , 2015, 8, 1157-1167.	3.6	14
36	Interpreting extreme climate impacts from large ensemble simulations—are they unseen or unrealistic?. <i>Environmental Research Letters</i> , 2022, 17, 044052.	5.2	13

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37	Subseasonal Statistical Forecasts of Eastern U.S. Hot Temperature Events. <i>Monthly Weather Review</i> , 2020, 148, 4799-4822.	1.4	11
38	The influence of diabatic heating in the South Pacific Convergence Zone on Rossby wave propagation and the mean flow. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 901-910.	2.7	10
39	The effects of varying drought-heat signatures on terrestrial carbon dynamics and vegetation composition. <i>Biogeosciences</i> , 2022, 19, 1979-1993.	3.3	10
40	Modeling and simulating spatial extremes by combining extreme value theory with generative adversarial networks. , 2022, 1, .		8
41	Improving together: better science writing through peer learning. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2965-2973.	4.9	7
42	A climate database with varying drought-heat signatures for climate impact modelling. <i>Geoscience Data Journal</i> , 2022, 9, 154-166.	4.4	7
43	Quantifying the role of the large-scale circulation on European summer precipitation change. <i>Climate Dynamics</i> , 2022, 59, 2871-2886.	3.8	6
44	Intransitive Atmosphere Dynamics Leading to Persistent Hot-“Dry or Cold-“Wet European Summers. <i>Journal of Climate</i> , 2021, 34, 6303-6317.	3.2	4
45	Using large ensemble modelling to derive future changes in mountain specific climate indicators in a 2 and 3°C warmer world in High Mountain Asia. <i>International Journal of Climatology</i> , 2021, 41, E964.	3.5	3