# Karin van der Wiel

List of Publications by Year
in descending order



| 45 | 2,890 | 218677 | 233421 |
|---|---|---|---|
| papers | citations | 26 h-index | 45 g-index |

| 85 | 85 | 85 | 3821 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A climate database with varying droughtâ€heat signatures for climate impact modelling. Geoscience Data Journal, 2022, 9, 154-166. | 4.4 | 7 |
| 2 | Quantifying the role of the large-scale circulation on European summer precipitation change. Climate Dynamics, 2022, 59, 2871-2886. | 3.8 | 6 |
| 3 | Interpreting extreme climate impacts from large ensemble simulationsâ€"are they unseen or unrealistic?. Environmental Research Letters, 2022, 17, 044052. | 5.2 | 13 |
| 4 | The effects of varying drought-heat signatures on terrestrial carbon dynamics and vegetation composition. Biogeosciences, 2022, 19, 1979-1993. | 3.3 | 10 |
| 5 | Modeling and simulating spatial extremes by combining extreme value theory with generative adversarial networks. , 2022, 1, . | | 8 |
| 6 | A globally consistent local-scale assessment of future tropical cyclone risk. Science Advances, 2022, 8, eabm8438. | 10.3 | 41 |
| 7 | Overcoming the disconnect between energy system and climate modeling. Joule, 2022, 6, 1405-1417. | 24.0 | 31 |
| 8 | Using large ensemble modelling to derive future changes in mountain specific climate indicators in a 2 and 3Â°C warmer world in High Mountain Asia. International Journal of Climatology, 2021, 41, E964. | 3.5 | 3 |
| 9 | Impact of precipitation and increasing temperatures on drought trends in eastern Africa. Earth System Dynamics, 2021, 12, 17-35. | 7.1 | 32 |
| 10 | Identifying meteorological drivers of extreme impacts: an application to simulated crop yields. Earth System Dynamics, 2021, 12, 151-172. | 7.1 | 30 |
| 11 | The impact of hydrological model structure on the simulation of extreme runoff events. Natural Hazards and Earth System Sciences, 2021, 21, 961-976. | 3.6 | 21 |
| 12 | Pathways and pitfalls in extreme event attribution. Climatic Change, 2021, 166, 1. | 3.6 | 86 |
| 13 | Intransitive Atmosphere Dynamics Leading to Persistent Hotâ€"Dry or Coldâ€"Wet European Summers. Journal of Climate, 2021, 34, 6303-6317. | 3.2 | 4 |
| 14 | Physical storylines of future European drought events like 2018 based on ensemble climate modelling. Weather and Climate Extremes, 2021, 33, 100350. | 4.1 | 23 |
| 15 | Contribution of climatic changes in mean and variability to monthly temperature and precipitation extremes. Communications Earth & Environment, 2021, 2, . | 6.8 | 122 |
| 16 | Guidelines for Studying Diverse Types of Compound Weather and Climate Events. Earth's Future, 2021, 9, e2021EF002340. | 6.3 | 66 |
| 17 | Storylines of weather-induced crop failure events under climate change. Earth System Dynamics, 2021, 12, 1503-1527. | 7.1 | 27 |
| 18 | South Pacific Convergence Zone dynamics, variability and impacts in a changing climate. Nature Reviews Earth & Environment, 2020, 1, 530-543. | 29.7 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Regional differentiation in climate change induced drought trends in the Netherlands. Environmental Research Letters, 2020, 15, 094081. | 5.2 | 37 |
| 20 | A seven-fold rise in the probability of exceeding the observed hottest summer in India in a 2 Â°C warmer world. Environmental Research Letters, 2020, 15, 044028. | 5.2 | 16 |
| 21 | Ensemble climate-impact modelling: extreme impacts from moderate meteorological conditions. Environmental Research Letters, 2020, 15, 034050. | 5.2 | 47 |
| 22 | Strong future increases in Arctic precipitation variability linked to poleward moisture transport. Science Advances, 2020, 6, eaax6869. | 10.3 | 73 |
| 23 | Subseasonal Statistical Forecasts of Eastern U.S. Hot Temperature Events. Monthly Weather Review, 2020, 148, 4799-4822. | 1.4 | 11 |
| 24 | A protocol for probabilistic extreme event attribution analyses. Advances in Statistical Climatology, Meteorology and Oceanography, 2020, 6, 177-203. | 0.9 | 103 |
| 25 | Tropical cyclone sensitivities to CO2 doubling: roles of atmospheric resolution, synoptic variability and background climate changes. Climate Dynamics, 2019, 53, 5999-6033. | 3.8 | 114 |
| 26 | Minimal influence of reduced Arctic sea ice on coincident cold winters in mid-latitudes. Nature Climate Change, 2019, 9, 697-704. | 18.8 | 199 |
| 27 | The influence of weather regimes on European renewable energy production and demand. Environmental Research Letters, 2019, 14, 094010. | 5.2 | 80 |
| 28 | Meteorological conditions leading to extreme low variable renewable energy production and extreme high energy shortfall. Renewable and Sustainable Energy Reviews, 2019, 111, 261-275. | 16.4 | 83 |
| 29 | Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives. Hydrology and Earth System Sciences, 2019, 23, 1409-1429. | 4.9 | 46 |
| 30 | Added Value of Large Ensemble Simulations for Assessing Extreme River Discharge in a 2ÂÂ°C Warmer World. Geophysical Research Letters, 2019, 46, 2093-2102. | 4.0 | 88 |
| 31 | Disentangling the impacts of human and environmental change on catchment response during Hurricane Harvey. Environmental Research Letters, 2019, 14, 124023. | 5.2 | 47 |
| 32 | Causes and Probability of Occurrence of Extreme Precipitation Events like Chennai 2015. Journal of Climate, 2018, 31, 3831-3848. | 3.2 | 21 |
| 33 | Climate change increases the probability of heavy rains in Northern England/Southern Scotland like those of storm Desmondâ€"a real-time event attribution revisited. Environmental Research Letters, 2018, 13, 024006. | 5.2 | 73 |
| 34 | 100-Year Lower Mississippi Floods in a Global Climate Model: Characteristics and Future Changes. Journal of Hydrometeorology, 2018, 19, 1547-1563. | 1.9 | 24 |
| 35 | Shifting patterns of mild weather in response to projected radiative forcing. Climatic Change, 2017, 140, 649-658. | 3.6 | 18 |
| 36 | Characteristics of colliding sea breeze gravity current fronts: a laboratory study. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1434-1441. | 2.7 | 16 |

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|---|---|---|---|
| 37 | Attribution of extreme rainfall from Hurricane Harvey, August 2017. Environmental Research Letters, 2017, 12, 124009. | 5.2 | 330 |
| 38 | Rapid attribution of theÂAugust 2016 flood-inducing extreme precipitation in south Louisiana to climate change. Hydrology and Earth System Sciences, 2017, 21, 897-921. | 4.9 | 136 |
| 39 | Improving together: better science writing through peer learning. Hydrology and Earth System Sciences, 2016, 20, 2965-2973. | 4.9 | 7 |
| 40 | The Resolution Dependence of Contiguous U.S. Precipitation Extremes in Response to CO2 Forcing. Journal of Climate, 2016, 29, 7991-8012. | 3.2 | 74 |
| 41 | The influence of diabatic heating in the South Pacific Convergence Zone on Rossby wave propagation and the mean flow. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 901-910. | 2.7 | 10 |
| 42 | Why the South Pacific Convergence Zone is diagonal. Climate Dynamics, 2016, 46, 1683-1698. | 3.8 | 34 |
| 43 | A dynamical framework for the origin of the diagonal South Pacific and South Atlantic Convergence Zones. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1997-2010. | 2.7 | 60 |
| 44 | IGCM4: a fast, parallel and flexible intermediate climate model. Geoscientific Model Development, 2015, 8, 1157-1167. | 3.6 | 14 |
| 45 | EC-Earth V2.2: description and validation of a new seamless earth system prediction model. Climate Dynamics, 2012, 39, 2611-2629. | 3.8 | 511 |