

Elizabeth Lewis

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,707
citations

394421

19
h-index

642732

23
g-index

28
all docs

28
docs citations

28
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic intensification of short-duration rainfall extremes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 107-122.	29.7	279
2	Future heat-waves, droughts and floods in 571 European cities. <i>Environmental Research Letters</i> , 2018, 13, 034009.	5.2	242
3	Detection of continental-scale intensification of hourly rainfall extremes. <i>Nature Climate Change</i> , 2018, 8, 803-807.	18.8	186
4	Quantifying and Mitigating Wind-Induced Undercatch in Rainfall Measurements. <i>Water Resources Research</i> , 2018, 54, 3863-3875.	4.2	98
5	Upper and lower benchmarks in hydrological modelling. <i>Hydrological Processes</i> , 2018, 32, 1120-1125.	2.6	85
6	Quality-control of an hourly rainfall dataset and climatology of extremes for the UK. <i>International Journal of Climatology</i> , 2017, 37, 722-740.	3.5	77
7	On the use of indices to study extreme precipitation on sub-daily and daily timescales. <i>Environmental Research Letters</i> , 2019, 14, 125008.	5.2	73
8	GSDR: A Global Sub-Daily Rainfall Dataset. <i>Journal of Climate</i> , 2019, 32, 4715-4729.	3.2	73
9	Strong Intensification of Hourly Rainfall Extremes by Urbanization. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088758.	4.0	62
10	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
11	A rule based quality control method for hourly rainfall data and a 1-km resolution gridded hourly rainfall dataset for Great Britain: CEH-GEAR1hr. <i>Journal of Hydrology</i> , 2018, 564, 930-943.	5.4	58
12	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.	3.4	56
13	Empirical estimate of forestation-induced precipitation changes in Europe. <i>Nature Geoscience</i> , 2021, 14, 473-478.	12.9	53
14	A synthesis of hourly and daily precipitation extremes in different climatic regions. <i>Weather and Climate Extremes</i> , 2019, 26, 100219.	4.1	50
15	Europe-wide precipitation projections at convection permitting scale with the Unified Model. <i>Climate Dynamics</i> , 2020, 55, 409-428.	3.8	48
16	Consistent Large-Scale Response of Hourly Extreme Precipitation to Temperature Variation Over Land. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090317.	4.0	46
17	Global distribution of the intensity and frequency of hourly precipitation and their responses to ENSO. <i>Climate Dynamics</i> , 2020, 54, 4823-4839.	3.8	27
18	Dry getting drier – The future of transnational river basins in Iberia. <i>Journal of Hydrology: Regional Studies</i> , 2017, 12, 238-252.	2.4	25

#	ARTICLE	IF	CITATIONS
19	Development of a system for automated setup of a physically-based, spatially-distributed hydrological model for catchments in Great Britain. <i>Environmental Modelling and Software</i> , 2018, 108, 102-110.	4.5	24
20	Contrasting seasonality of storm rainfall and flood runoff in the UK and some implications for rainfall-runoff methods of flood estimation. <i>Hydrology Research</i> , 2019, 50, 1309-1323.	2.7	21
21	Quality control of a global hourly rainfall dataset. <i>Environmental Modelling and Software</i> , 2021, 144, 105169.	4.5	21
22	UKGrSHP: a UK high-resolution gauge-radar-satellite merged hourly precipitation analysis dataset. <i>Climate Dynamics</i> , 2020, 54, 2919-2940.	3.8	19
23	PPDIST, global 0.1° daily and 3-hourly precipitation probability distribution climatologies for 1979-2018. <i>Scientific Data</i> , 2020, 7, 302.	5.3	12
24	Towards Quantifying the Uncertainty in Estimating Observed Scaling Rates. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	12