Elizabeth Lewis

List of Publications by Year
in descending order

24 papers	1,707 citations	394286 19 h-index	642610 23 g-index
28 all docs	28 docs citations	28 times ranked	1953 citing authors

#	Article	IF	Citations
1	Towards Quantifying the Uncertainty in Estimating Observed Scaling Rates. Geophysical Research Letters, 2022, 49, .	1.5	12
2	Anthropogenic intensification of short-duration rainfall extremes. Nature Reviews Earth & Environment, 2021, 2, 107-122.	12.2	279
3	Consistent Large‑Scale Response of Hourly Extreme Precipitation to Temperature Variation Over Land. Geophysical Research Letters, 2021, 48, e2020GL090317.	1.5	46
4	Towards advancing scientific knowledge of climate change impacts on short-duration rainfall extremes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190542.	1.6	56
5	Empirical estimate of forestation-induced precipitation changes in Europe. Nature Geoscience, 2021, 14, 473-478.	5.4	53
6	Quality control of a global hourly rainfall dataset. Environmental Modelling and Software, 2021, 144, 105169.	1.9	21
7	Europe-wide precipitation projections at convection permitting scale with the Unified Model. Climate Dynamics, 2020, 55, 409-428.	1.7	48
8	PPDIST, global 0.1° daily and 3-hourly precipitation probability distribution climatologies for 1979–2018. Scientific Data, 2020, 7, 302.	2.4	12
9	Global distribution of the intensity and frequency of hourly precipitation and their responses to ENSO. Climate Dynamics, 2020, 54, 4823-4839.	1.7	27
10	Strong Intensification of Hourly Rainfall Extremes by Urbanization. Geophysical Research Letters, 2020, 47, e2020GL088758.	1.5	62
11	UKGrsHP: a UK high-resolution gauge–radar–satellite merged hourly precipitation analysis dataset. Climate Dynamics, 2020, 54, 2919-2940.	1.7	19
12	Contrasting seasonality of storm rainfall and flood runoff in the UK and some implications for rainfall-runoff methods of flood estimation. Hydrology Research, 2019, 50, 1309-1323.	1.1	21
13	On the use of indices to study extreme precipitation on sub-daily and daily timescales. Environmental Research Letters, 2019, 14, 125008.	2.2	73
14	GSDR: A Global Sub-Daily Rainfall Dataset. Journal of Climate, 2019, 32, 4715-4729.	1.2	73
15	A synthesis of hourly and daily precipitation extremes in different climatic regions. Weather and Climate Extremes, 2019, 26, 100219.	1.6	50
16	Future heat-waves, droughts and floods in 571 European cities. Environmental Research Letters, 2018, 13, 034009.	2.2	242
17	Upper and lower benchmarks in hydrological modelling. Hydrological Processes, 2018, 32, 1120-1125.	1.1	85
18	Quantifying and Mitigating Wind‑Induced Undercatch in Rainfall Measurements. Water Resources Research, 2018, 54, 3863-3875.	1.7	98

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19	A rule based quality control method for hourly rainfall data and a 1 km resolution gridded hourly rainfall dataset for Great Britain: CEH-GEAR1hr. Journal of Hydrology, 2018, 564, 930-943.	2.3	58
20	Detection of continental-scale intensification of hourly rainfall extremes. Nature Climate Change, 2018, 8, 803-807.	8.1	186
21	Development of a system for automated setup of a physically-based, spatially-distributed hydrological model for catchments in Great Britain. Environmental Modelling and Software, 2018, 108, 102-110.	1.9	24
22	Quality control of an hourly rainfall dataset and climatology of extremes for the <scp>UK</scp>. International Journal of Climatology, 2017, 37, 722-740.	1.5	77
23	Dry getting drier – The future of transnational river basins in Iberia. Journal of Hydrology: Regional Studies, 2017, 12, 238-252.	1.0	25
24	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. Advances in Science and Research, 0, 15, 117-126.	1.0	59