Louise J Slater

List of Publications by Year
in descending order

52 papers	2,144 citations	218677 26 h-index	243625 44 g-index
84 all docs	84 docs citations	84 times ranked	2245 citing authors

#	Article	IF	Citations
1	Hydrological impact of widespread afforestation in Great Britain using a large ensemble of modelled scenarios. Communications Earth & Environment, 2022, 3, .	6.8	13
2	<scp>SEAS5</scp> skilfully predicts late w<scp>etâ€season</scp> precipitation in Central American Dry Corridor excelling in Costa Rica and Nicaragua. International Journal of Climatology, 2022, 42, 4953-4971.	3.5	3
3	Extreme floods in Europe: going beyond observations using reforecast ensemble pooling. Hydrology and Earth System Sciences, 2022, 26, 469-482.	4.9	16
4	Asymmetrical Shift Toward Less Light and More Heavy Precipitation in an Urban Agglomeration of East China: Intensification by Urbanization. Geophysical Research Letters, 2022, 49, .	4.0	22
5	Interpreting extreme climate impacts from large ensemble simulationsâ€”are they unseen or unrealistic?. Environmental Research Letters, 2022, 17, 044052.	5.2	13
6	Global Increases in Compound Floodâ€Hot Extreme Hazards Under Climate Warming. Geophysical Research Letters, 2022, 49, .	4.0	48
7	Atmospheric rivers and associated extreme rainfall over Morocco. International Journal of Climatology, 2022, 42, 7766-7778.	3.5	3
8	An open workflow to gain insights about lowâ€likelihood highâ€impact weather events from initialized predictions. Meteorological Applications, 2022, 29, .	2.1	9
9	Statistical Attribution of the Influence of Urban and Tree Cover Change on Streamflow: A Comparison of Large Sample Statistical Approaches. Water Resources Research, 2022, 58, .	4.2	7
10	Threshold constraints on the size, shape and stability of alluvial rivers. Nature Reviews Earth & Environment, 2022, 3, 406-419.	29.7	20
11	Hydrological concept formation inside long short-term memoryÂ(LSTM) networks. Hydrology and Earth System Sciences, 2022, 26, 3079-3101.	4.9	34
12	Detection and Attribution of Human Influence on the Global Diurnal Temperature Range Decline. Geophysical Research Letters, 2022, 49, .	4.0	3
13	Greenhouse Gas Emissions Drive Global Dryland Expansion but Not Spatial Patterns of Change in Aridification. Journal of Climate, 2022, 35, 2901-2917.	3.2	8
14	Constrained CMIP6 projections indicate less warming and a slower increase in water availability across Asia. Nature Communications, 2022, 13, .	12.8	15
15	Challenges in modeling and predicting floods and droughts: A review. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1520.	6.5	96
16	Global Changes in 20â€Year, 50â€Year, and 100â€Year River Floods. Geophysical Research Letters, 2021, 48, e2020GL091824.	4.0	66
17	Hydrological controls on oviposition habitat are associated with eggâ€laying phenology of some caddisflies. Freshwater Biology, 2021, 66, 1311-1327.	2.4	3
18	Using Fractals to Describe Ecologically Relevant Patterns in Distributions of Large Rocks in Streams. Water Resources Research, 2021, 57, e2021WR029796.	4.2	5

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19	Nonstationary weather and water extremes: a review of methods for their detection, attribution, and management. Hydrology and Earth System Sciences, 2021, 25, 3897-3935.	4.9	109
20	Continuity of terrestrial water storage variability and trends across mainland China monitored by the GRACE and GRACE-Follow on satellites. Journal of Hydrology, 2021, 599, 126308.	5.4	25
21	Green infrastructure: The future of urban flood risk management?. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1560.	6.5	30
22	Benchmarking data-driven rainfallâ€“runoff models in Great Britain: a comparison of long short-term memory (LSTM)-based models with four lumped conceptual models. Hydrology and Earth System Sciences, 2021, 25, 5517-5534.	4.9	69
23	Remotely sensed rivers in the Anthropocene: state of the art and prospects. Earth Surface Processes and Landforms, 2020, 45, 157-188.	2.5	128
24	Using UNSEEN trends to detect decadal changes in 100-year precipitation extremes. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	40
25	Intensity-duration-frequency curves at the global scale. Environmental Research Letters, 2019, 14, 084045.	5.2	57
26	Using R in hydrology: a review of recent developments and future directions. Hydrology and Earth System Sciences, 2019, 23, 2939-2963.	4.9	50
27	Seasonal predictability of high sea level frequency using ENSO patterns along the U.S. West Coast. Advances in Water Resources, 2019, 131, 103377.	3.8	6
28	River channel conveyance capacity adjusts to modes of climate variability. Scientific Reports, 2019, 9, 12619.	3.3	37
29	The Relative Importance of Different Floodâ€Generating Mechanisms Across Europe. Water Resources Research, 2019, 55, 4582-4593.	4.2	152
30	Demystifying academics to enhance universityâ€“business collaborations in environmental science. Geoscience Communication, 2019, 2, 1-23.	0.9	8
31	On the statistical attribution of the frequency of flood events across the U.S. Midwest. Advances in Water Resources, 2019, 127, 225-236.	3.8	38
32	On the decadal predictability of the frequency of flood events across the U.S. Midwest. International Journal of Climatology, 2019, 39, 1796-1804.	3.5	12
33	A dynamical statistical framework for seasonal streamflow forecasting in an agricultural watershed. Climate Dynamics, 2019, 53, 7429-7445.	3.8	26
34	Evaluation of the skill of North-American Multi-Model Ensemble (NMME) Global Climate Models in predicting average and extreme precipitation and temperature over the continental USA. Climate Dynamics, 2019, 53, 7381-7396.	3.8	50
35	Examination of Changes in Annual Maximum Gauge Height in the Continental United States Using Quantile Regression. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	1.9	8
36	HESS Opinions: Science in today's media landscape â€“ challenges and lessons from hydrologists and journalists. Hydrology and Earth System Sciences, 2018, 22, 3589-3599.	4.9	5

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37	Enhancing the Predictability of Seasonal Streamflow With a Statisticalâ€Dynamical Approach. Geophysical Research Letters, 2018, 45, 6504-6513.	4.0	47
38	On the impact of gaps on trend detection in extreme streamflow time series. International Journal of Climatology, 2017, 37, 3976-3983.	3.5	23
39	Measuring the changing pulse of rivers. Science, 2017, 357, 552-552.	12.6	11
40	Weighting of NMME temperature and precipitation forecasts across Europe. Journal of Hydrology, 2017, 552, 646-659.	5.4	30
41	The â€˜dirty dozenâ€™ of freshwater science: detecting then reconciling hydrological data biases and errors. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1209.	6.5	45
42	Improved ENSO Forecasting Using Bayesian Updating and the North American Multimodel Ensemble (NMME). Journal of Climate, 2017, 30, 9007-9025.	3.2	20
43	Geomorphometric delineation of floodplains and terraces from objectively defined topographic thresholds. Earth Surface Dynamics, 2017, 5, 369-385.	2.4	53
44	Evaluating the Drivers of Seasonal Streamflow in the U.S. Midwest. Water (Switzerland), 2017, 9, 695.	2.7	40
45	To what extent have changes in channel capacity contributed to flood hazard trends in England and Wales?. Earth Surface Processes and Landforms, 2016, 41, 1115-1128.	2.5	38
46	Recent trends in U.S. flood risk. Geophysical Research Letters, 2016, 43, 12,428.	4.0	132
47	Hydrologic versus geomorphic drivers of trends in flood hazard. Geophysical Research Letters, 2015, 42, 370-376.	4.0	134
48	Objective extraction of channel heads from high-resolution topographic data. Water Resources Research, 2014, 50, 4283-4304.	4.2	123
49	Imprint of climate and climate change in alluvial riverbeds: Continental United States, 1950-2011. Geology, 2013, 41, 595-598.	4.4	71
50	Census and typology of braided rivers in the French Alps. Aquatic Sciences, 2009, 71, 371-388.	1.5	101
51	Decreasing flood hazard evaluated in Turkey using nonstationary models. River Research and Applications, 0, , .	1.7	1
52	Substantial Increase in Heavy Precipitation Events Preceded by Moist Heatwaves Over China During 1961â€“2019. Frontiers in Environmental Science, 0, 10, .	3.3	3