Luis Mediero

List of Publications by Year
in descending order

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44 papers	3,267 citations	304602 22 h-index	276775 41 g-index
56 all docs	56 docs citations	56 times ranked	3766 citing authors

#	Article	IF	Citations
1	Changing climate both increases and decreases European river floods. Nature, 2019, 573, 108-111.	13.7	639
2	Changing climate shifts timing of European floods. Science, 2017, 357, 588-590.	6.0	584
3	Understanding flood regime changes in Europe: a state-of-the-art assessment. Hydrology and Earth System Sciences, 2014, 18, 2735-2772.	1.9	423
4	Hydrology needed to manage droughts: the 2015 European case. Hydrological Processes, 2016, 30, 3097-3104.	1.1	152
5	A bivariate return period based on copulas for hydrologic dam design: accounting for reservoir routing in risk estimation. Hydrology and Earth System Sciences, 2013, 17, 3023-3038.	1.9	136
6	The EuropeanÂ2015 drought from a hydrological perspective. Hydrology and Earth System Sciences, 2017, 21, 3001-3024.	1.9	132
7	Climate-driven variability in the occurrence of major floods across North America and Europe. Journal of Hydrology, 2017, 552, 704-717.	2.3	122
8	Documentary evidence of past floods in Europe and their utility in flood frequency estimation. Journal of Hydrology, 2014, 517, 963-973.	2.3	116
9	Detection and attribution of trends in magnitude, frequency and timing of floods in Spain. Journal of Hydrology, 2014, 517, 1072-1088.	2.3	90
10	Identification of coherent flood regions across Europe by using the longest streamflow records. Journal of Hydrology, 2015, 528, 341-360.	2.3	79
11	Quantitative Assessment of Climate Change Vulnerability of Irrigation Demands in Mediterranean Europe. Water Resources Management, 2015, 29, 325-338.	1.9	77
12	Design flood hydrographs from the relationship between flood peak and volume. Hydrology and Earth System Sciences, 2010, 14, 2495-2505.	1.9	71
13	Diagnosing Causes of Water Scarcity in Complex Water Resources Systems and Identifying Risk Management Actions. Water Resources Management, 2013, 27, 1693-1705.	1.9	63
14	A complete procedure for multivariate index-flood model application. Journal of Hydrology, 2016, 535, 559-580.	2.3	42
15	Optimization of Hedging Rules for Reservoir Operation During Droughts Based on Particle Swarm Optimization. Water Resources Management, 2016, 30, 5759-5778.	1.9	41
16	Trends in flow intermittence for European rivers. Hydrological Sciences Journal, 2021, 66, 37-49.	1.2	41
17	A probabilistic model to support reservoir operation decisions during flash floods. Hydrological Sciences Journal, 2007, 52, 523-537.	1.2	38
18	Using Lightning Data to Better Understand and Predict Flash Floods in the Mediterranean. Surveys in Geophysics, 2011, 32, 733-751.	2.1	36

#	Article	IF	Citations
19	Selection of Bias Correction Methods to Assess the Impact of Climate Change on Flood Frequency Curves. Water (Switzerland), 2019, 11, 2266.	1.2	36
20	Extension of observed flood series by combining a distributed hydro-meteorological model and a copula-based model. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1363-1378.	1.9	32
21	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. Proceedings of the International Association of Hydrological Sciences, 0, 370, 89-95.	1.0	32
22	The FLASH Project: using lightning data to better understand and predict flash floods. Environmental Science and Policy, 2011, 14, 898-911.	2.4	31
23	Characterisation of the Sensitivity of Water Resources Systems to Climate Change. Water Resources Management, 2013, 27, 4237-4258.	1.9	31
24	Trends in low flows in Spain in the period 1949â€“2009. Hydrological Sciences Journal, 2016, 61, 568-584.	1.2	24
25	Effect of radar rainfall time resolution on the predictive capability of a distributed hydrologic model. Hydrology and Earth System Sciences, 2011, 15, 3809-3827.	1.9	23
26	Probabilistic calibration of a distributed hydrological model for flood forecasting. Hydrological Sciences Journal, 2011, 56, 1129-1149.	1.2	23
27	Regional flood hydrology in a semi-arid catchment using a GLS regression model. Journal of Hydrology, 2014, 514, 158-171.	2.3	20
28	Risk-based methodology for parameter calibration of a reservoir flood control model. Natural Hazards and Earth System Sciences, 2013, 13, 965-981.	1.5	17
29	Influence of climate change on flood magnitude and seasonality in the Arga River catchment in Spain. Acta Geophysica, 2018, 66, 769-790.	1.0	14
30	Fully Stochastic Distributed Methodology for Multivariate Flood Frequency Analysis. Water (Switzerland), 2016, 8, 225.	1.2	11
31	Assessment of Changes in Annual Maximum Precipitations in the Iberian Peninsula under Climate Change. Water (Switzerland), 2019, 11, 2375.	1.2	11
32	PROBABILISTIC FORECASTS USING BAYESIAN NETWORKS CALIBRATED WITH DETERMINISTIC RAINFALL-RUNOFF MODELS. , 2006, , 173-183.		10
33	A bivariate trend analysis to investigate the effect of increasing urbanisation on flood characteristics. Hydrology Research, 2017, 48, 802-821.	1.1	8
34	Links between different classes of storm tracks and the flood trends in Spain. Journal of Hydrology, 2018, 567, 71-85.	2.3	8
35	Utilidad de las proyecciones climÃ¡ticas generadas por AEMET para estudios de impacto del cambio climÃ¡tico sobre avenidas a escala nacional. IngenierÃa Del Agua, 2018, 22, 153.	0.2	8
36	Improving probabilistic flood forecasting through a data assimilation scheme based on genetic programming. Natural Hazards and Earth System Sciences, 2012, 12, 3719-3732.	1.5	5

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37	Identifying the origins of extreme rainfall using storm track classification. Journal of Hydroinformatics, 2020, 22, 296-309.	1.1	5
38	Future Flood Hazard Assessment for the City of Pamplona (Spain) Using an Ensemble of Climate Change Projections. Water (Switzerland), 2021, 13, 792.	1.2	5
39	Modelling uncertainty of flood quantile estimations at ungauged sites by Bayesian networks. Journal of Hydroinformatics, 2014, 16, 822-838.	1.1	4
40	Selection of Bias Correction Methods to Assess the Impact of Climate Change on Flood Frequency Curves. Proceedings (mdpi), 2018, 7, .	0.2	3
41	Quantification of the Expected Changes in Annual Maximum Daily Precipitation Quantiles under Climate Change in the Iberian Peninsula. Proceedings (mdpi), 2019, 7, 23.	0.2	3
42	The Hydrometeorological Forecasting in the Framework of the European Project Flash. Houille Blanche, 2009, 95, 66-71.	0.3	2
43	Improving flash flood risk assessment using a simple approach for extreme rainfall scaling and storms transposition. Journal of Flood Risk Management, 2022, 15, .	1.6	1
44	Identification of Flood-Rich and Flood-Poor Periods by Using Annual Maximum Series of Floods in Spain. Proceedings (mdpi), 2018, 7, .	0.2	0