Uwe Ehret

List of Publications by Year
in descending order

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32 papers	2,134 citations	516561 16 h-index	454834 30 g-index
62 all docs	62 docs citations	62 times ranked	3002 citing authors

#	Article	IF	Citations
1	A decade of Predictions in Ungauged Basins (PUB)â€"a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	1.2	821
2	HESS Opinions "Should we apply bias correction to global and regional climate model data?". Hydrology and Earth System Sciences, 2012, 16, 3391-3404.	1.9	521
3	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	1.9	83
4	HESS Opinions: From response units to functional units: a thermodynamic reinterpretation of the HRU concept to link spatial organization and functioning of intermediate scale catchments. Hydrology and Earth System Sciences, 2014, 18, 4635-4655.	1.9	78
5	Series distance â€“ an intuitive metric to quantify hydrograph similarity in terms of occurrence, amplitude and timing of hydrological events. Hydrology and Earth System Sciences, 2011, 15, 877-896.	1.9	71
6	Thermodynamics, maximum power, and the dynamics of preferential river flow structures at the continental scale. Hydrology and Earth System Sciences, 2013, 17, 225-251.	1.9	66
7	Extreme flood response to short-duration convective rainfall in South-West Germany. Hydrology and Earth System Sciences, 2012, 16, 1543-1559.	1.9	47
8	A thermodynamic approach to link self-organization, preferential flow and rainfallâ€"runoff behaviour. Hydrology and Earth System Sciences, 2013, 17, 4297-4322.	1.9	46
9	Comparing expert judgement and numerical criteria for hydrograph evaluation. Hydrological Sciences Journal, 2015, 60, 402-423.	1.2	46
10	Modelling the hydrological impacts of rural land use change. Hydrology Research, 2014, 45, 737-754.	1.1	44
11	On the dynamic nature of hydrological similarity. Hydrology and Earth System Sciences, 2018, 22, 3663-3684.	1.9	42
12	Radarâ€based flood forecasting in small catchments, exemplified by the Goldersbach catchment, Germany. International Journal of River Basin Management, 2008, 6, 323-329.	1.5	34
13	A topographic index explaining hydrological similarity by accounting for the joint controls of runoff formation. Hydrology and Earth System Sciences, 2019, 23, 3807-3821.	1.9	29
14	Quantitative precipitation estimation based on high-resolution numerical weather prediction and data assimilation with WRF â€“ a performance test. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 67, 25047.	0.8	27
15	The potential of coordinated reservoir operation for flood mitigation in large basins â€“ A case study on the Bavarian Danube using coupled hydrologicalâ€"hydrodynamic models. Journal of Hydrology, 2014, 517, 1128-1144.	2.3	25
16	Quantitative precipitation estimation with weather radar using a data- and information-based approach. Hydrology and Earth System Sciences, 2019, 23, 3711-3733.	1.9	23
17	Identifying rainfall-runoff events in discharge time series: a data-driven method based on information theory. Hydrology and Earth System Sciences, 2019, 23, 1015-1034.	1.9	21
18	Disentangling timing and amplitude errors in streamflow simulations. Hydrology and Earth System Sciences, 2016, 20, 3745-3763.	1.9	14

#	Article	IF	Citations
19	Debates: Does Information Theory Provide a New Paradigm for Earth Science? Emerging Concepts and Pathways of Information Physics. Water Resources Research, 2020, 56, e2019WR025270.	1.7	10
20	Real-time demonstration of hydrological ensemble forecasts in map d-phase. Houille Blanche, 2009, 95, 95-104.	0.3	10
21	Adaptive clustering: reducing the computational costs of distributed (hydrological) modelling by exploiting time-variable similarity among model elements. Hydrology and Earth System Sciences, 2020, 24, 4389-4411.	1.9	10
22	Unravelling abiotic and biotic controls on the seasonal water balance using data-driven dimensionless diagnostics. Hydrology and Earth System Sciences, 2017, 21, 2817-2841.	1.9	9
23	Convergence Index: a new performance measure for the temporal stability of operational rainfall forecasts. Meteorologische Zeitschrift, 2010, 19, 441-451.	0.5	7
24	A Maximum-Entropy Method to Estimate Discrete Distributions from Samples Ensuring Nonzero Probabilities. Entropy, 2018, 20, 601.	1.1	6
25	Histogram via entropy reduction (HER): an information-theoretic alternative for geostatistics. Hydrology and Earth System Sciences, 2020, 24, 4523-4540.	1.9	6
26	Technical note: â€œBit by bitâ€• a practical and general approach for evaluating model computational complexity vs.Âmodel performance. Hydrology and Earth System Sciences, 2021, 25, 1103-1115.	1.9	4
27	Assessing local and spatial uncertainty with nonparametric geostatistics. Stochastic Environmental Research and Risk Assessment, 2022, 36, 173-199.	1.9	4
28	Forecast Uncertainties in the Operational Flood Forecasting of the Bavarian Danube Catchment. , 2010, , 367-387.		4
29	Evaluation of operational weather forecasts: Applicability for flood forecasting in alpine Bavaria. Meteorologische Zeitschrift, 2011, 20, 373-381.	0.5	3
30	Computing Accurate Probabilistic Estimates of One-D Entropy from Equiprobable Random Samples. Entropy, 2021, 23, 740.	1.1	3
31	Clustering as Approximation Method to Optimize Hydrological Simulations. Lecture Notes in Computer Science, 2019, , 256-269.	1.0	1
32	Evolutionary Approach of Clustering to Optimize Hydrological Simulations. Lecture Notes in Computer Science, 2020, , 617-633.	1.0	0