Steven V Weijs

List of Publications by Year
in descending order

24	768	758635 12	642321 23
papers	citations	h-index	g-index

38	38	38	1144
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Objective functions for information-theoretical monitoring network design: what is â€œoptimalâ€?. Hydrology and Earth System Sciences, 2021, 25, 831-850.	1.9	5
2	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
3	Debates: Does Information Theory Provide a New Paradigm for Earth Science? Sharper Predictions Using Occam's Digital Razor. Water Resources Research, 2020, 56, e2019WR026471.	1.7	12
4	Reservoir Operation Optimized for Hydropower Production Reduces Conflict with Traditional Water Uses in the Senegal River. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	10
5	Dependency and Redundancy: How Information Theory Untangles Three Variable Interactions in Environmental Data. Water Resources Research, 2018, 54, 7143-7148.	1.7	8
6	Application of Entropy Ensemble Filter in Neural Network Forecasts of Tropical Pacific Sea Surface Temperatures. Entropy, 2018, 20, 207.	1.1	7
7	Balancing Costs and Benefits in Selecting New Information: Efficient Monitoring Using Deterministic Hydro-economic Models. Water Resources Management, 2018, 32, 339-357.	1.9	5
8	Entropy Ensemble Filter: A Modified Bootstrap Aggregating (Bagging) Procedure to Improve Efficiency in Ensemble Model Simulation. Entropy, 2017, 19, 520.	1.1	9
9	A philosophical basis for hydrological uncertainty. Hydrological Sciences Journal, 2016, 61, 1666-1678.	1.2	98
10	Prefaceâ€”Special Issue: Facets of Uncertainty. Hydrological Sciences Journal, 2016, 61, 1555-1556.	1.2	3
11	Controls on the diurnal streamflow cycles in two subbasins of an alpine headwater catchment. Water Resources Research, 2015, 51, 3403-3418.	1.7	35
12	Advancing catchment hydrology to deal with predictions under change. Hydrology and Earth System Sciences, 2014, 18, 649-671.	1.9	83
13	Geomorphic signatures on Brutsaert base flow recession analysis. Water Resources Research, 2013, 49, 5462-5472.	1.7	70
14	An information-theoretical perspective on weighted ensemble forecasts. Journal of Hydrology, 2013, 498, 177-190.	2.3	9
15	HydroZIP: How Hydrological Knowledge can Be Used to Improve Compression of Hydrological Data. Entropy, 2013, 15, 1289-1310.	1.1	20
16	Could electrical conductivity replace water level in rating curves for alpine streams?. Water Resources Research, 2013, 49, 343-351.	1.7	23
17	Data compression to define information content of hydrological time series. Hydrology and Earth System Sciences, 2013, 17, 3171-3187.	1.9	19
18	Soil Moisture & Snow Properties Determination with GNSS in Alpine Environments: Challenges, Status, and Perspectives. Remote Sensing, 2013, 5, 3516-3543.	1.8	18

#	Article	IF	Citations
19	Accounting for Observational Uncertainty in Forecast Verification: An Information-Theoretical View on Forecasts, Observations, and Truth. Monthly Weather Review, 2011, 139, 2156-2162.	0.5	28
20	Why hydrological predictions should be evaluated using information theory. Hydrology and Earth System Sciences, 2010, 14, 2545-2558.	1.9	99
21	Linking water and energy objectives in lowland areas through the application of model predictive control. , 2010, , .		1
22	Using the Wiimote as a sensor in water research. Water Resources Research, 2010, 46, .	1.7	12
23	Kullbackâ€“Leibler Divergence as a Forecast Skill Score with Classic Reliabilityâ€“Resolutionâ€“Uncertainty Decomposition. Monthly Weather Review, 2010, 138, 3387-3399.	0.5	67
24	Multiple Model Predictive Control on a drainage canal system. Control Engineering Practice, 2008, 16, 531-540.	3.2	110