David Robertson

List of Publications by Year
in descending order

53 papers	3,030 citations	159585 30 h-index	197818 49 g-index
65 all docs	65 docs citations	65 times ranked	2736 citing authors

#	Article	IF	Citations
1	Twenty-three unsolved problems in hydrology (UPH) â€“ a community perspective. Hydrological Sciences Journal, 2019, 64, 1141-1158.	2.6	474
2	A Bayesian joint probability modeling approach for seasonal forecasting of streamflows at multiple sites. Water Resources Research, 2009, 45, .	4.2	195
3	Multisite probabilistic forecasting of seasonal flows for streams with zero value occurrences. Water Resources Research, 2011, 47, .	4.2	146
4	A logâ€sinh transformation for data normalization and variance stabilization. Water Resources Research, 2012, 48, .	4.2	127
5	Post-processing rainfall forecasts from numerical weather prediction models for short-term streamflow forecasting. Hydrology and Earth System Sciences, 2013, 17, 3587-3603.	4.9	120
6	Evidence for Using Lagged Climate Indices to Forecast Australian Seasonal Rainfall. Journal of Climate, 2012, 25, 1230-1246.	3.2	115
7	Evaluation of numerical weather prediction model precipitation forecasts for short-term streamflow forecasting purpose. Hydrology and Earth System Sciences, 2013, 17, 1913-1931.	4.9	103
8	Improving operational flood ensemble prediction by the assimilation of satellite soil moisture: comparison between lumped and semi-distributed schemes. Hydrology and Earth System Sciences, 2015, 19, 1659-1676.	4.9	98
9	Ensemble flood forecasting: Current status and future opportunities. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1432.	6.5	96
10	Merging Seasonal Rainfall Forecasts from Multiple Statistical Models through Bayesian Model Averaging. Journal of Climate, 2012, 25, 5524-5537.	3.2	88
11	Complex relationship between seasonal streamflow forecast skill and value in reservoir operations. Hydrology and Earth System Sciences, 2017, 21, 4841-4859.	4.9	85
12	A Bayesian Approach to Predictor Selection for Seasonal Streamflow Forecasting. Journal of Hydrometeorology, 2012, 13, 155-171.	1.9	78
13	Monthly versus daily water balance models in simulating monthly runoff. Journal of Hydrology, 2011, 404, 166-175.	5.4	77
14	The impacts of assimilating satellite soil moisture into a rainfallâ€runoff model in a semi-arid catchment. Journal of Hydrology, 2014, 519, 2763-2774.	5.4	72
15	Reliable long-range ensemble streamflow forecasts: Combining calibrated climate forecasts with a conceptual runoff model and a staged error model. Water Resources Research, 2016, 52, 8238-8259.	4.2	64
16	Improving Precipitation Forecasts by Generating Ensembles through Postprocessing. Monthly Weather Review, 2015, 143, 3642-3663.	1.4	61
17	Improving statistical forecasts of seasonal streamflows using hydrological model output. Hydrology and Earth System Sciences, 2013, 17, 579-593.	4.9	57
18	A System for Continuous Hydrological Ensemble Forecasting (SCHEF) to lead times of 9 days. Journal of Hydrology, 2014, 519, 2832-2846.	5.4	56

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19	Ensemble dressing for hydrological applications. Hydrological Processes, 2013, 27, 106-116.	2.6	55
20	Seasonal Forecasts of Australian Rainfall through Calibration and Bridging of Coupled GCM Outputs. Monthly Weather Review, 2014, 142, 1758-1770.	1.4	52
21	Combining the strengths of statistical and dynamical modeling approaches for forecasting Australian seasonal rainfall. Journal of Geophysical Research, 2012, 117, .	3.3	50
22	A Bayesian modelling method for post-processing daily sub-seasonal to seasonal rainfall forecasts from global climate models and evaluation for 12ÂAustralian catchments. Hydrology and Earth System Sciences, 2018, 22, 1615-1628.	4.9	50
23	Quantifying predictive uncertainty of streamflow forecasts based on a Bayesian joint probability model. Journal of Hydrology, 2015, 528, 329-340.	5.4	49
24	Error reduction and representation in stages (ERRIS) in hydrological modelling for ensemble streamflow forecasting. Hydrology and Earth System Sciences, 2016, 20, 3561-3579.	4.9	49
25	Dual assimilation of satellite soil moisture to improve streamflow prediction in dataâ€scarce catchments. Water Resources Research, 2016, 52, 5357-5375.	4.2	49
26	A strategy to overcome adverse effects of autoregressive updating of streamflow forecasts. Hydrology and Earth System Sciences, 2015, 19, 1-15.	4.9	48
27	Effective use of general circulation model outputs for forecasting monthly rainfalls to long lead times. Water Resources Research, 2013, 49, 5427-5436.	4.2	46
28	Assessment of an ensemble seasonal streamflow forecasting system for Australia. Hydrology and Earth System Sciences, 2017, 21, 6007-6030.	4.9	45
29	An integrated error parameter estimation and lag-aware data assimilation scheme for real-time flood forecasting. Journal of Hydrology, 2014, 519, 2722-2736.	5.4	42
30	Calibrating hourly rainfall-runoff models with daily forcings for streamflow forecasting applications in meso-scale catchments. Environmental Modelling and Software, 2016, 76, 20-36.	4.5	40
31	A dual-pass error-correction technique for forecasting streamflow. Journal of Hydrology, 2011, 405, 367-381.	5.4	30
32	A Bayesian network approach to knowledge integration and representation of farm irrigation: 1. Model development. Water Resources Research, 2009, 45, .	4.2	25
33	Improved error modelling for streamflow forecasting at hourly time steps by splitting hydrographs into rising and falling limbs. Journal of Hydrology, 2017, 555, 586-599.	5.4	25
34	Engendering stakeholder ownership in scenario planning. Technological Forecasting and Social Change, 2015, 91, 250-263.	11.6	23
35	A Seasonally Coherent Calibration (SCC) Model for Postprocessing Numerical Weather Predictions. Monthly Weather Review, 2019, 147, 3633-3647.	1.4	23
36	The challenge of forecasting high streamflows 1â€“3 months in advance with lagged climate indices in southeast Australia. Natural Hazards and Earth System Sciences, 2014, 14, 219-233.	3.6	21

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37	Ensemble forecasting of shortâ€term system scale irrigation demands using realâ€time flow data and numerical weather predictions. Water Resources Research, 2016, 52, 4801-4822.	4.2	19
38	Bayesian networks for decision analyses â€" an application to irrigation system selection. Australian Journal of Experimental Agriculture, 2004, 44, 145.	1.0	19
39	Seasonal Forecasts of Unregulated Inflows into the Murray River, Australia. Water Resources Management, 2013, 27, 2747-2769.	3.9	17
40	A Bayesian joint probability post-processor for reducing errors and quantifying uncertainty in monthly streamflow predictions. Hydrology and Earth System Sciences, 2013, 17, 795-804.	4.9	17
41	Seasonal streamflow forecasting in the upper Indus Basin of Pakistan: an assessment of methods. Hydrology and Earth System Sciences, 2018, 22, 3533-3549.	4.9	17
42	The value of model averaging and dynamical climate model predictions for improving statistical seasonal streamflow forecasts over Australia. Water Resources Research, 2013, 49, 6671-6687.	4.2	16
43	On the importance of soil moisture in calibration of rainfallâ€"runoff models: two case studies. Hydrological Sciences Journal, 2018, 63, 1292-1312.	2.6	16
44	A Data Censoring Approach for Predictive Error Modeling of Flow in Ephemeral Rivers. Water Resources Research, 2020, 56, e2019WR026128.	4.2	16
45	Calibrating Hourly Precipitation Forecasts with Daily Observations. Journal of Hydrometeorology, 2020, 21, 1655-1673.	1.9	14
46	Estimating hydraulic parameters for a surface irrigation model from field conditions. Australian Journal of Experimental Agriculture, 2004, 44, 173.	1.0	13
47	A comparison of the discrete cosine and wavelet transforms for hydrologic model input data reduction. Hydrology and Earth System Sciences, 2017, 21, 3827-3838.	4.9	8
48	A Bayesian network approach to knowledge integration and representation of farm irrigation: 2. Model validation. Water Resources Research, 2009, 45, .	4.2	5
49	A Bayesian network approach to knowledge integration and representation of farm irrigation: 3. Spatial application. Water Resources Research, 2009, 45, .	4.2	4
50	A Bayesian hierarchical spatio-temporal rainfall model. Journal of Applied Statistics, 2019, 46, 217-229.	1.3	0
51	Using the Schaake shuffle when calibrating ensemble means can be problematic. Journal of Hydrology, 2020, 587, 124991.	5.4	0
52	A qualitative approach to improve the effectiveness of products of research findings for users: a case study of the Analytical Irrigation Model. Australian Journal of Experimental Agriculture, 2004, 44, 207.	1.0	0
53	Estimating Lake Mulwala diversions for calibration of a semi-distributed hydrologic model of the Murray River. , 0, , .		0