

Mark A Thyer

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,331
citations

218677

26
h-index

182427

51
g-index

69
all docs

69
docs citations

69
times ranked

2974
citing authors

#	ARTICLE	IF	CITATIONS
1	A Hidden Climate Indices Modeling Framework for Multivariable Space-Time Data. <i>Water Resources Research</i> , 2022, 58, .	4.2	4
2	Predicting wildfire induced changes to runoff: A review and synthesis of modeling approaches. <i>Wiley Interdisciplinary Reviews: Water</i> , 2022, 9, .	6.5	5
3	Improving the Reliability of Sub-Seasonal Forecasts of High and Low Flows by Using a Flow-Dependent Nonparametric Model. <i>Water Resources Research</i> , 2021, 57, e2020WR029317.	4.2	7
4	Optimising the design and real-time operation of systems of distributed stormwater storages to reduce urban flooding at the catchment scale. <i>Journal of Hydrology</i> , 2021, 602, 126787.	5.4	22
5	Achieving high-quality probabilistic predictions from hydrological models calibrated with a wide range of objective functions. <i>Journal of Hydrology</i> , 2021, 603, 126578.	5.4	9
6	Multi-temporal Hydrological Residual Error Modeling for Seamless Subseasonal Streamflow Forecasting. <i>Water Resources Research</i> , 2020, 56, e2019WR026979.	4.2	21
7	A robust approach for calibrating a daily rainfall-runoff model to monthly streamflow data. <i>Journal of Hydrology</i> , 2020, 591, 125129.	5.4	12
8	A generalised approach for identifying influential data in hydrological modelling. <i>Environmental Modelling and Software</i> , 2019, 111, 231-247.	4.5	5
9	Benefits of Explicit Treatment of Zero Flows in Probabilistic Hydrological Modeling of Ephemeral Catchments. <i>Water Resources Research</i> , 2019, 55, 11035-11060.	4.2	13
10	Revealing Hidden Climate Indices from the Occurrence of Hydrologic Extremes. <i>Water Resources Research</i> , 2019, 55, 7662-7681.	4.2	14
11	A virtual hydrological framework for evaluation of stochastic rainfall models. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4783-4801.	4.9	4
12	Real-Time, Smart Rainwater Storage Systems: Potential Solution to Mitigate Urban Flooding. <i>Water (Switzerland)</i> , 2019, 11, 2428.	2.7	28
13	Controlling rainwater storage as a system: An opportunity to reduce urban flood peaks for rare, long duration storms. <i>Environmental Modelling and Software</i> , 2019, 111, 34-41.	4.5	36
14	A hybrid framework for quantifying the influence of data in hydrological model calibration. <i>Journal of Hydrology</i> , 2018, 561, 211-222.	5.4	7
15	A comprehensive and systematic evaluation framework for a parsimonious daily rainfall field model. <i>Journal of Hydrology</i> , 2018, 556, 1123-1138.	5.4	24
16	Evaluating post-processing approaches for monthly and seasonal streamflow forecasts. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6257-6278.	4.9	34
17	The Importance of Spatiotemporal Variability in Irrigation Inputs for Hydrological Modeling of Irrigated Catchments. <i>Water Resources Research</i> , 2018, 54, 6792-6821.	4.2	21
18	State updating and calibration period selection to improve dynamic monthly streamflow forecasts for an environmental flow management application. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 871-887.	4.9	30

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19	A simplified approach to produce probabilistic hydrological model predictions. <i>Environmental Modelling and Software</i> , 2018, 109, 306-314.	4.5	25
20	Improving probabilistic prediction of daily streamflow by identifying <sc>P</sc>areto optimal approaches for modeling heteroscedastic residual errors. <i>Water Resources Research</i> , 2017, 53, 2199-2239.	4.2	101
21	Avulsion triggering by El Niño and Southern Oscillation and tectonic forcing: The case of the tropical Magdalena River, Colombia. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 1300-1313.	3.3	11
22	Natural hazards in Australia: droughts. <i>Climatic Change</i> , 2016, 139, 37-54.	3.6	174
23	Estimating Extreme Spatial Rainfall Intensities. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, 04015074.	1.9	6
24	Incorporating seasonality into event-based joint probability methods for predicting flood frequency: A hybrid causative event approach. <i>Journal of Hydrology</i> , 2016, 533, 40-52.	5.4	10
25	Influential point detection diagnostics in the context of hydrological model calibration. <i>Journal of Hydrology</i> , 2015, 527, 1161-1172.	5.4	15
26	The ENSO and Precipitation Teleconnection and Its Modulation by the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , 2015, 28, 4753-4773.	3.2	25
27	A global analysis of the asymmetric effect of ENSO on extreme precipitation. <i>Journal of Hydrology</i> , 2015, 530, 51-65.	5.4	117
28	A strategy for diagnosing and interpreting hydrological model nonstationarity. <i>Water Resources Research</i> , 2014, 50, 5090-5113.	4.2	134
29	A general regional frequency analysis framework for quantifying local-scale climate effects: A case study of ENSO effects on Southeast Queensland rainfall. <i>Journal of Hydrology</i> , 2014, 512, 53-68.	5.4	66
30	Comparison of joint versus postprocessor approaches for hydrological uncertainty estimation accounting for error autocorrelation and heteroscedasticity. <i>Water Resources Research</i> , 2014, 50, 2350-2375.	4.2	130
31	An efficient causative event-based approach for deriving the annual flood frequency distribution. <i>Journal of Hydrology</i> , 2014, 510, 412-423.	5.4	32
32	Pitfalls and improvements in the joint inference of heteroscedasticity and autocorrelation in hydrological model calibration. <i>Water Resources Research</i> , 2013, 49, 4518-4524.	4.2	96
33	Climate driver informed short-term drought risk evaluation. <i>Water Resources Research</i> , 2013, 49, 2317-2326.	4.2	23
34	Climate-informed stochastic hydrological modeling: Incorporating decadal-scale variability using paleo data. <i>Water Resources Research</i> , 2011, 47, .	4.2	38
35	Toward a reliable decomposition of predictive uncertainty in hydrological modeling: Characterizing rainfall errors using conditional simulation. <i>Water Resources Research</i> , 2011, 47, .	4.2	172
36	The open source RFortran library for accessing R from Fortran, with applications in environmental modelling. <i>Environmental Modelling and Software</i> , 2011, 26, 219-234.	4.5	14

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37	There are no hydrological monsters, just models and observations with large uncertainties!. Hydrological Sciences Journal, 2010, 55, 980-991.	2.6	68
38	Understanding predictive uncertainty in hydrologic modeling: The challenge of identifying input and structural errors. Water Resources Research, 2010, 46, .	4.2	589
39	A limited-memory acceleration strategy for MCMC sampling in hierarchical Bayesian calibration of hydrological models. Water Resources Research, 2010, 46, .	4.2	32
40	Critical evaluation of parameter consistency and predictive uncertainty in hydrological modeling: A case study using Bayesian total error analysis. Water Resources Research, 2009, 45, .	4.2	293
41	Investigating the Impact of Predictive Uncertainty in Rainfall-Runoff Modelling on Storage Reliability Estimates Using Bayesian Total Error Analysis. , 2008, , .		0
42	Scrutinizing Parameter Consistency and Predictive Uncertainty in Rainfall-Runoff Models Using Bayesian Total Error Analysis. , 2008, , .		1
43	Short-Term Drought Risk Dynamics: The Impact of Multi-Decadal Climate Variability and Water Supply System Properties. , 2008, , .		0
44	A general Bayesian framework for calibrating and evaluating stochastic models of annual multi-site hydrological data. Journal of Hydrology, 2007, 340, 129-148.	5.4	28
45	Goulburn River experimental catchment data set. Water Resources Research, 2007, 43, .	4.2	83
46	Parameter estimation and model identification for stochastic models of annual hydrological data: Is the observed record long enough?. Journal of Hydrology, 2006, 330, 313-328.	5.4	27
47	Towards a Bayesian total error analysis of conceptual rainfall-runoff models: Characterising model error using storm-dependent parameters. Journal of Hydrology, 2006, 331, 161-177.	5.4	283
48	Diagnosing a distributed hydrologic model for two high-elevation forested catchments based on detailed stand- and basin-scale data. Water Resources Research, 2004, 40, .	4.2	53
49	A hidden Markov model for modelling long-term persistence in multi-site rainfall time series. 2. Real data analysis. Journal of Hydrology, 2003, 275, 27-48.	5.4	42
50	A hidden Markov model for modelling long-term persistence in multi-site rainfall time series 1. Model calibration using a Bayesian approach. Journal of Hydrology, 2003, 275, 12-26.	5.4	52
51	Incorporating Long-Term Climate Variability into a Short-Timescale Rainfall Model Using a Hidden State Markov Model. Australian Journal of Water Resources, 2002, 6, 63-70.	2.7	1
52	Quantifying parameter uncertainty in stochastic models using the Box-Cox transformation. Journal of Hydrology, 2002, 265, 246-257.	5.4	74
53	Modeling long-term persistence in hydroclimatic time series using a hidden state Markov Model. Water Resources Research, 2000, 36, 3301-3310.	4.2	77
54	Probabilistic optimization for conceptual rainfall-runoff models: A comparison of the shuffled complex evolution and simulated annealing algorithms. Water Resources Research, 1999, 35, 767-773.	4.2	138