Juliane Mai

List of Publications by Year
in descending order

46 papers	1,577 citations	304743 22 h-index	302126 39 g-index
69 all docs	69 docs citations	69 times ranked	2031 citing authors

#	Article	IF	Citations
1	Multiscale evaluation of the Standardized Precipitation Index as a groundwater drought indicator. Hydrology and Earth System Sciences, 2016, 20, 1117-1131.	4.9	133
2	Multiscale and Multivariate Evaluation of Water Fluxes and States over European River Basins. Journal of Hydrometeorology, 2016, 17, 287-307.	1.9	120
3	Combining satellite data and appropriate objective functions for improved spatial pattern performance of a distributed hydrologic model. Hydrology and Earth System Sciences, 2018, 22, 1299-1315.	4.9	119
4	The German drought monitor. Environmental Research Letters, 2016, 11, 074002.	5.2	108
5	The impact of standard and hard-coded parameters on the hydrologic fluxes in the Noah-MP land surface model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,676.	3.3	101
6	Seasonal Soil Moisture Drought Prediction over Europe Using the North American Multi-Model Ensemble (NMME). Journal of Hydrometeorology, 2015, 16, 2329-2344.	1.9	93
7	Improving calibration and validation of cosmic-ray neutron sensors in the light of spatial sensitivity. Hydrology and Earth System Sciences, 2017, 21, 5009-5030.	4.9	93
8	Flexible watershed simulation with the Raven hydrological modelling framework. Environmental Modelling and Software, 2020, 129, 104728.	4.5	62
9	Conditioning a Hydrologic Model Using Patterns of Remotely Sensed Land Surface Temperature. Water Resources Research, 2018, 54, 2976-2998.	4.2	61
10	The proper care and feeding of CAMELS: How limited training data affects streamflow prediction. Environmental Modelling and Software, 2021, 135, 104926.	4.5	60
11	Time to Update the Split-Sample Approach in Hydrological Model Calibration. Water Resources Research, 2022, 58, .	4.2	57
12	Computationally inexpensive identification of noninformative model parameters by sequential screening. Water Resources Research, 2015, 51, 6417-6441.	4.2	54
13	The importance of topography-controlled sub-grid process heterogeneity and semi-quantitative prior constraints in distributed hydrological models. Hydrology and Earth System Sciences, 2016, 20, 1151-1176.	4.9	47
14	The multiscale routing model mRM v1.0: simple river routing at resolutions from 1 to 50 km. Geoscientific Model Development, 2019, 12, 2501-2521.	3.6	38
15	Use of eigendecomposition in a parameter sensitivity analysis of the Community Land Model. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 904-921.	3.0	34
16	Transcriptional signatures of regulatory and toxic responses to benzo-[a]-pyrene exposure. BMC Genomics, 2011, 12, 502.	2.8	28
17	Parametric soil water retention models: a critical evaluation of expressions for the full moisture range. Hydrology and Earth System Sciences, 2018, 22, 1193-1219.	4.9	28
18	The Great Lakes Runoff Intercomparison Project Phase 4: the Great Lakes (GRIP-GL). Hydrology and Earth System Sciences, 2022, 26, 3537-3572.	4.9	27

#	ARTICLE	IF	CITATIONS
19	A 10‰km North American precipitation and land-surface reanalysis based on the GEM atmospheric model. Hydrology and Earth System Sciences, 2021, 25, 4917-4945.	4.9	26
20	Simultaneously determining global sensitivities of model parameters and model structure. Hydrology and Earth System Sciences, 2020, 24, 5835-5858.	4.9	26
21	Extending Theis' solution: Using transient pumping tests to estimate parameters of aquifer heterogeneity. Water Resources Research, 2016, 52, 6156-6170.	4.2	25
22	Automatic Model Structure Identification for Conceptual Hydrologic Models. Water Resources Research, 2020, 56, e2019WR027009.	4.2	25
23	The Canadian Surface Prediction Archive (CaSPAr): A Platform to Enhance Environmental Modeling in Canada and Globally. Bulletin of the American Meteorological Society, 2020, 101, E341-E356.	3.3	24
24	Are Assumptions about the Model Type Necessary in Reaction-Diffusion Modeling? A FRAP Application. Biophysical Journal, 2011, 100, 1178-1188.	0.5	21
25	Stochastic temporal disaggregation of monthly precipitation for regional gridded data sets. Water Resources Research, 2014, 50, 8714-8735.	4.2	20
26	The sensitivity of simulated streamflow to individual hydrologic processes across North America. Nature Communications, 2022, 13, 455.	12.8	15
27	Simultaneous Calibration of Hydrologic Model Structure and Parameters Using a Blended Model. Water Resources Research, 2021, 57, e2020WR029229.	4.2	14
28	Efficient treatment of climate data uncertainty in ensemble Kalman filter (EnKF) based on an existing historical climate ensemble dataset. Journal of Hydrology, 2019, 568, 985-996.	5.4	12
29	Great Lakes Runoff Intercomparison Project Phase 3: Lake Erie (GRIP-E). Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	12
30	Parameter Importance in FRAP Acquisition and Analysis: A Simulation Approach. Biophysical Journal, 2013, 104, 2089-2097.	0.5	11
31	Model Variable Augmentation (MVA) for Diagnostic Assessment of Sensitivity Analysis Results. Water Resources Research, 2019, 55, 2631-2651.	4.2	11
32	Kinetic control of contaminant release from NAPLs – Information potential of concentration time profiles. Environmental Pollution, 2013, 179, 301-314.	7.5	8
33	Sigmoidal water retention function with improved behaviour in dry and wet soils. Hydrology and Earth System Sciences, 2021, 25, 983-1007.	4.9	8
34	PADDS Algorithm Assessment for Biobjective Water Distribution System Benchmark Design Problems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	7
35	Spatial Retrieval of Broadband Dielectric Spectra. Sensors, 2018, 18, 2780.	3.8	6
36	Subwatershed-based lake and river routing products for hydrologic and land surface models applied over Canada. Canadian Water Resources Journal, 2020, 45, 237-251.	1.2	6

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37	Application of Parameter Screening to Derive Optimal Initial State Adjustments for Streamflow Forecasting. Water Resources Research, 2020, 56, e2020WR027960.	4.2	5
38	A Bayesian sequential updating approach to predict phenology of silage maize. Biogeosciences, 2022, 19, 2187-2209.	3.3	4
39	A National Scale Planning Tool for Agricultural Droughts in Germany. Advances in Chemical Pollution, Environmental Management and Protection, 2018, 3, 147-169.	0.5	3
40	Ten Best Practices to Strengthen Stewardship and Sharing of Water Science Data in Canada. Hydrological Processes, 0, , e14385.	2.6	3
41	Convenient Access to Archived Predictions: Canada's CaSPAr Platform. Bulletin of the American Meteorological Society, 2020, 101, 233-236.	3.3	1
42	The pie sharing problem: Unbiased sampling of N+1 summative weights. Environmental Modelling and Software, 2022, 148, 105282.	4.5	1
43	Analysis of Spatio-Temporal Dynamics by Artificial and Real FRAP Data. Biophysical Journal, 2010, 98, 571a.	0.5	0
44	Dielectric Spectra Reconstruction of Layered Multi-Phase Soil. , 2018, , .		0
45	A semi-empirical wind set-up forecasting model for Lake Champlain. Hydrological Processes, 2021, 35, e14240.	2.6	0
46	An Open-Source Interface to the Canadian Surface Prediction Archive. , 2020, , .		0