Paulin Coulibaly

List of Publications by Year
in descending order

96 papers	4,743 citations	126907 33 h-index	106344 65 g-index
97 all docs	97 docs citations	97 times ranked	4161 citing authors

#	Article	IF	Citations
1	Hybrid Surrogate Model for Timely Prediction of Flash Flood Inundation Maps Caused by Rapid River Overflow. Forecasting, 2022, 4, 126-148.	2.8	10
2	Data-Driven Community Flood Resilience Prediction. Water (Switzerland), 2022, 14, 2120.	2.7	3
3	Integration of hydrological models with entropy and multi-objective optimization based methods for designing specific needs streamflow monitoring networks. Journal of Hydrology, 2021, 593, 125876.	5.4	10
4	Application of weather Radar for operational hydrology in Canada â€" a review. Canadian Water Resources Journal, 2021, 46, 17-37.	1.2	2
5	A deep learning model for predicting climate-induced disasters. Natural Hazards, 2021, 107, 1009-1034.	3.4	13
6	Understanding Uncertainty in Probabilistic Floodplain Mapping in the Time of Climate Change. Water (Switzerland), 2021, 13, 1248.	2.7	6
7	Technical guidelines for future intensityâ€"durationâ€"frequency curve estimation in Canada. Canadian Water Resources Journal, 2021, 46, 87-104.	1.2	4
8	Use of Radar Quantitative Precipitation Estimates (QPEs) for Improved Hydrological Model Calibration and Flood Forecasting. Journal of Hydrometeorology, 2021, , .	1.9	6
9	A temporal downscaling approach for sub-daily gridded extreme rainfall intensity estimation under climate change. Journal of Hydrology: Regional Studies, 2021, 35, 100811.	2.4	10
10	HUPâ€"BMA: An Integration of Hydrologic Uncertainty Processor and Bayesian Model Averaging for Streamflow Forecasting. Water Resources Research, 2021, 57, e2020WR029433.	4.2	7
11	Identification of hydrological models for operational flood forecasting in St. Johnâ€™s, Newfoundland, Canada. Journal of Hydrology: Regional Studies, 2020, 27, 100646.	2.4	42
12	Inter-comparison of lumped hydrological models in data-scarce watersheds using different precipitation forcing data sets: Case study of Northern Ontario, Canada. Journal of Hydrology: Regional Studies, 2020, 31, 100730.	2.4	32
13	Introducing entropy-based Bayesian model averaging for streamflow forecast. Journal of Hydrology, 2020, 591, 125577.	5.4	20
14	Evaluating the Dependence between Temperature and Precipitation to Better Estimate the Risks of Concurrent Extreme Weather Events. Advances in Meteorology, 2020, 2020, 1-16.	1.6	13
15	Flood Inundation Mapping in an Ungauged Basin. Water (Switzerland), 2020, 12, 1532.	2.7	21
16	Evaluation of Radar-Gauge Merging Techniques to Be Used in Operational Flood Forecasting in Urban Watersheds. Water (Switzerland), 2020, 12, 1494.	2.7	10
17	Evaluation of Snowmelt Estimation Techniques for Enhanced Spring Peak Flow Prediction. Water (Switzerland), 2020, 12, 1290.	2.7	5
18	Recent Advances in Real-Time Pluvial Flash Flood Forecasting. Water (Switzerland), 2020, 12, 570.	2.7	59

#	ARTICLE	IF	CITATIONS
19	Future shift in winter streamflow modulated by the internal variability of climate in southern Ontario. Hydrology and Earth System Sciences, 2020, 24, 3077-3096.	4.9	14
20	Climate indices to characterize climatic changes across southern Canada. Meteorological Applications, 2020, 27, e1861.	2.1	11
21	Evaluation of Radar Quantitative Precipitation Estimates (QPEs) as an Input of Hydrological Models for Hydrometeorological Applications. Journal of Hydrometeorology, 2020, 21, 1847-1864.	1.9	12
22	Probabilistic Flood Forecasting Using Hydrologic Uncertainty Processor with Ensemble Weather Forecasts. Journal of Hydrometeorology, 2019, 20, 1379-1398.	1.9	20
23	Assessing Hydrologic Uncertainty Processor Performance for Flood Forecasting in a Semiurban Watershed. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	1.9	11
24	Projected Changes in the Frequency of Peak Flows along the Athabasca River: Sensitivity of Results to Statistical Methods of Analysis. Climate, 2019, 7, 88.	2.8	6
25	Estimates of gridded relative changes in 24-h extreme rainfall intensities based on pooled frequency analysis. Journal of Hydrology, 2019, 577, 123940.	5.4	9
26	Inter-Comparison of Different Bayesian Model Averaging Modifications in Streamflow Simulation. Water (Switzerland), 2019, 11, 1707.	2.7	24
27	Atmospheric circulation amplifies shift of winter streamflow in southern Ontario. Journal of Hydrology, 2019, 578, 124051.	5.4	8
28	Evaluation and bias correction of SNODAS snow water equivalent (SWE) for streamflow simulation in eastern Canadian basins. Hydrological Sciences Journal, 2019, 64, 1541-1555.	2.6	8
29	An overview of river flood forecasting procedures in Canadian watersheds. Canadian Water Resources Journal, 2019, 44, 213-229.	1.2	28
30	Assessment of future changes in intensity-duration-frequency curves for Southern Ontario using North American (NA)-CORDEX models with nonstationary methods. Journal of Hydrology: Regional Studies, 2019, 22, 100587.	2.4	21
31	Pooled frequency analysis for intensityâ€"durationâ€"frequency curve estimation. Hydrological Processes, 2019, 33, 2080-2094.	2.6	14
32	Identification of Hydrological Models for Enhanced Ensemble Reservoir Inflow Forecasting in a Large Complex Prairie Watershed. Water (Switzerland), 2019, 11, 2201.	2.7	10
33	Introducing the Ensemble-Based Dual Entropy and Multiobjective Optimization for Hydrometric Network Design Problems: EnDEMO. Entropy, 2019, 21, 947.	2.2	7
34	Assessing Spatial Scale Effects on Hydrometric Network Design Using Entropy and Multiâ€‐objective Methods. Journal of the American Water Resources Association, 2018, 54, 275-286.	2.4	5
35	Conservation planning as an adaptive strategy for climate change and groundwater depletion in Wadi El Natrun, Egypt. Hydrogeology Journal, 2018, 26, 689-703.	2.1	4
36	Multi-Model Approaches for Improving Seasonal Ensemble Streamflow Prediction Scheme with Various Statistical Post-Processing Techniques in the Canadian Prairie Region. Water (Switzerland), 2018, 10, 1604.	2.7	29

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37	Event-based model calibration approaches for selecting representative distributed parameters in semi-urban watersheds. Advances in Water Resources, 2018, 118, 12-27.	3.8	20
38	Evaluation of ensemble precipitation forecasts generated through post-processing in a Canadian catchment. Hydrology and Earth System Sciences, 2018, 22, 1957-1969.	4.9	30
39	Application of SNODAS and hydrologic models to enhance entropy-based snow monitoring network design. Journal of Hydrology, 2018, 561, 688-701.	5.4	13
40	An evaluation of regionalization and watershed classification schemes for continuous daily streamflow prediction in ungauged watersheds. Canadian Water Resources Journal, 2017, 42, 2-20.	1.2	45
41	Estimating Root Zone Soil Moisture at Continental Scale Using Neural Networks. Journal of the American Water Resources Association, 2017, 53, 220-237.	2.4	15
42	Sensitivity of Entropy Method to Time Series Length in Hydrometric Network Design. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	22
43	Bayesian flood forecasting methods: A review. Journal of Hydrology, 2017, 551, 340-351.	5.4	86
44	Hydrometric network design using dual entropy multi-objective optimization in the Ottawa River Basin. Hydrology Research, 2017, 48, 1639-1651.	2.7	16
45	Historical Spatial and Temporal Climate Trends in Southern Ontario, Canada. Journal of Applied Meteorology and Climatology, 2017, 56, 2767-2787.	1.5	15
46	Information theory–based decision support system for integrated design of multivariable hydrometric networks. Water Resources Research, 2017, 53, 6239-6259.	4.2	34
47	Variability of Future Extreme Rainfall Statistics: Comparison of Multiple IDF Projections. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	1.9	22
48	Entropy Applications to Water Monitoring Network Design: A Review. Entropy, 2017, 19, 613.	2.2	46
49	Does nonstationarity in rainfall require nonstationary intensity–duration–frequency curves?. Hydrology and Earth System Sciences, 2017, 21, 6461-6483.	4.9	79
50	Application of SMOS Soil Moisture and Brightness Temperature at High Resolution With a Bias Correction Operator. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1590-1605.	4.9	9
51	Improving streamflow estimation in ungauged basins using a multi-modelling approach. Hydrological Sciences Journal, 2016, 61, 2668-2679.	2.6	35
52	Entropy based groundwater monitoring network design considering spatial distribution of annual recharge. Advances in Water Resources, 2016, 96, 108-119.	3.8	27
53	Spatially constrained clustering of ecological units to facilitate the design of integrated water monitoring networks in the St. Lawrence Basin. International Journal of Geographical Information Science, 2016, 30, 390-404.	4.8	5
54	Potential of bias correction for downscaling passive microwave and soil moisture data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6460-6479.	3.3	12

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55	Improved Spring Peak-Flow Forecasting Using Ensemble Meteorological Predictions. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	1.9	9
56	Reducing multiplicative bias of satellite soil moisture retrievals. Remote Sensing of Environment, 2015, 165, 109-122.	11.0	18
57	Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3950-3959.	6.3	16
58	Hydrometric network design using streamflow signatures and indicators of hydrologic alteration. Journal of Hydrology, 2015, 529, 1350-1359.	5.4	33
59	Modeling the impacts of dryland agricultural reclamation on groundwater resources in Northern Egypt using sparse data. Journal of Hydrology, 2015, 520, 420-438.	5.4	25
60	Design of an optimum soil moisture monitoring network using SMOS. , 2014, , .		1
61	Data-based disaggregation of SMOS soil moisture. , 2014, , .		3
62	Examining differences in streamflow estimation for gauged and ungauged catchments using evolutionary data assimilation. Journal of Hydroinformatics, 2014, 16, 392-406.	2.4	2
63	Assessing model state and forecasts variation in hydrologic data assimilation. Journal of Hydrology, 2014, 513, 127-141.	5.4	62
64	Synthesis review on groundwater discharge to surface water in the Great Lakes Basin. Journal of Great Lakes Research, 2014, 40, 247-256.	1.9	35
65	Variability in Canadian Seasonal Streamflow Information and Its Implication for Hydrometric Network Design. Journal of Hydrologic Engineering - ASCE, 2014, 19, .	1.9	29
66	Root–zone soil moisture estimation using data–driven methods. Water Resources Research, 2014, 50, 2946-2962.	4.2	57
67	Evaluation of Canadian National Hydrometric Network density based on WMO 2008 standards. Canadian Water Resources Journal, 2013, 38, 159-167.	1.2	32
68	CRDEMO: Combined regionalization and dual entropy-multiobjective optimization for hydrometric network design. Water Resources Research, 2013, 49, 8070-8089.	4.2	37
69	Two decades of anarchy? Emerging themes and outstanding challenges for neural network river forecasting. Progress in Physical Geography, 2012, 36, 480-513.	3.2	235
70	Identification of rainfall–runoff model for improved baseflow estimation in ungauged basins. Hydrological Processes, 2012, 26, 356-366.	2.6	43
71	Distributed modelling of future changes in hydrological processes of Spencer Creek watershed. Hydrological Processes, 2011, 25, 1254-1270.	2.6	33
72	Estimation of Continuous Streamflow in Ontario Ungauged Basins: Comparison of Regionalization Methods. Journal of Hydrologic Engineering - ASCE, 2011, 16, 447-459.	1.9	175

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73	Downscaling Ensemble Weather Predictions for Improved Week-2 Hydrologic Forecasting. Journal of Hydrometeorology, 2011, 12, 1564-1580.	1.9	14
74	Reservoir Computing approach to Great Lakes water level forecasting. Journal of Hydrology, 2010, 381, 76-88.	5.4	62
75	2009 Special Issue of the Journal of Hydroinformatics on Advances in Hydroinformatics. Journal of Hydroinformatics, 2009, 11, 165-165.	2.4	2
76	Developments in hydrometric network design: A review. Reviews of Geophysics, 2009, 47, .	23.0	254
77	Improving groundwater level forecasting with a feedforward neural network and linearly regressed projected precipitation. Journal of Hydroinformatics, 2008, 10, 317-330.	2.4	52
78	Seasonal reservoir inflow forecasting with low-frequency climatic indices: a comparison of data-driven methods. Hydrological Sciences Journal, 2007, 52, 508-522.	2.6	29
79	Validation of hydrological models for climate scenario simulation: the case of Saguenay watershed in Quebec. Hydrological Processes, 2007, 21, 3123-3135.	2.6	47
80	Bayesian neural network for rainfall-runoff modeling. Water Resources Research, 2006, 42, .	4.2	119
81	Spatial and temporal variability of Canadian seasonal precipitation (1900â€"2000). Advances in Water Resources, 2006, 29, 1846-1865.	3.8	72
82	Temporal neural networks for downscaling climate variability and extremes. Neural Networks, 2006, 19, 135-144.	5.9	137
83	Uncertainty analysis of statistical downscaling methods using Canadian Global Climate Model predictors. Hydrological Processes, 2006, 20, 3085-3104.	2.6	62
84	Application of Support Vector Machine in Lake Water Level Prediction. Journal of Hydrologic Engineering - ASCE, 2006, 11, 199-205.	1.9	215
85	Downscaling Precipitation and Temperature with Temporal Neural Networks. Journal of Hydrometeorology, 2005, 6, 483-496.	1.9	144
86	Spatial and Temporal Variability of Canadian Seasonal Streamflows. Journal of Climate, 2005, 18, 191-210.	3.2	55
87	Nonstationary hydrological time series forecasting using nonlinear dynamic methods. Journal of Hydrology, 2005, 307, 164-174.	5.4	212
88	Hydrologic impact of climate change in the Saguenay watershed: comparison of downscaling methods and hydrologic models. Journal of Hydrology, 2005, 307, 145-163.	5.4	413
89	Wavelet analysis of variability in annual Canadian streamflows. Water Resources Research, 2004, 40, .	4.2	189
90	Downscaling daily extreme temperatures with genetic programming. Geophysical Research Letters, 2004, 31, .	4.0	57

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91	Impact of meteorological predictions on real-time spring flow forecasting. Hydrological Processes, 2003, 17, 3791-3801.	2.6	24
92	Artificial neural network modeling of water table depth fluctuations. Water Resources Research, 2001, 37, 885-896.	4.2	321
93	Improving extreme hydrologic events forecasting using a new criterion for artificial neural network selection. Hydrological Processes, 2001, 15, 1533-1536.	2.6	69
94	Multivariate Reservoir Inflow Forecasting Using Temporal Neural Networks. Journal of Hydrologic Engineering - ASCE, 2001, 6, 367-376.	1.9	163
95	A recurrent neural networks approach using indices of low-frequency climatic variability to forecast regional annual runoff. Hydrological Processes, 2000, 14, 2755-2777.	2.6	85
96	Neural Network-Based Long-Term Hydropower Forecasting System. Computer-Aided Civil and Infrastructure Engineering, 2000, 15, 355-364.	9.8	26