

Paulin Coulibaly

List of Publications by Year in descending order

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96
papers

4,743
citations

126907

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docs citations

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4161
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hydrologic impact of climate change in the Saguenay watershed: comparison of downscaling methods and hydrologic models. <i>Journal of Hydrology</i> , 2005, 307, 145-163. | 5.4 | 413 |
| 2 | Artificial neural network modeling of water table depth fluctuations. <i>Water Resources Research</i> , 2001, 37, 885-896. | 4.2 | 321 |
| 3 | Developments in hydrometric network design: A review. <i>Reviews of Geophysics</i> , 2009, 47, . | 23.0 | 254 |
| 4 | Two decades of anarchy? Emerging themes and outstanding challenges for neural network river forecasting. <i>Progress in Physical Geography</i> , 2012, 36, 480-513. | 3.2 | 235 |
| 5 | Application of Support Vector Machine in Lake Water Level Prediction. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 199-205. | 1.9 | 215 |
| 6 | Nonstationary hydrological time series forecasting using nonlinear dynamic methods. <i>Journal of Hydrology</i> , 2005, 307, 164-174. | 5.4 | 212 |
| 7 | Wavelet analysis of variability in annual Canadian streamflows. <i>Water Resources Research</i> , 2004, 40, . | 4.2 | 189 |
| 8 | Estimation of Continuous Streamflow in Ontario Ungauged Basins: Comparison of Regionalization Methods. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 447-459. | 1.9 | 175 |
| 9 | Multivariate Reservoir Inflow Forecasting Using Temporal Neural Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2001, 6, 367-376. | 1.9 | 163 |
| 10 | Downscaling Precipitation and Temperature with Temporal Neural Networks. <i>Journal of Hydrometeorology</i> , 2005, 6, 483-496. | 1.9 | 144 |
| 11 | Temporal neural networks for downscaling climate variability and extremes. <i>Neural Networks</i> , 2006, 19, 135-144. | 5.9 | 137 |
| 12 | Bayesian neural network for rainfall-runoff modeling. <i>Water Resources Research</i> , 2006, 42, . | 4.2 | 119 |
| 13 | Bayesian flood forecasting methods: A review. <i>Journal of Hydrology</i> , 2017, 551, 340-351. | 5.4 | 86 |
| 14 | A recurrent neural networks approach using indices of low-frequency climatic variability to forecast regional annual runoff. <i>Hydrological Processes</i> , 2000, 14, 2755-2777. | 2.6 | 85 |
| 15 | Does nonstationarity in rainfall require nonstationary intensityâ€‘durationâ€‘frequency curves?. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6461-6483. | 4.9 | 79 |
| 16 | Spatial and temporal variability of Canadian seasonal precipitation (1900â€‘2000). <i>Advances in Water Resources</i> , 2006, 29, 1846-1865. | 3.8 | 72 |
| 17 | Improving extreme hydrologic events forecasting using a new criterion for artificial neural network selection. <i>Hydrological Processes</i> , 2001, 15, 1533-1536. | 2.6 | 69 |
| 18 | Uncertainty analysis of statistical downscaling methods using Canadian Global Climate Model predictors. <i>Hydrological Processes</i> , 2006, 20, 3085-3104. | 2.6 | 62 |

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|----|--|-----|-----------|
| 19 | Reservoir Computing approach to Great Lakes water level forecasting. <i>Journal of Hydrology</i> , 2010, 381, 76-88. | 5.4 | 62 |
| 20 | Assessing model state and forecasts variation in hydrologic data assimilation. <i>Journal of Hydrology</i> , 2014, 513, 127-141. | 5.4 | 62 |
| 21 | Recent Advances in Real-Time Pluvial Flash Flood Forecasting. <i>Water (Switzerland)</i> , 2020, 12, 570. | 2.7 | 59 |
| 22 | Downscaling daily extreme temperatures with genetic programming. <i>Geophysical Research Letters</i> , 2004, 31, . | 4.0 | 57 |
| 23 | Rootâ€zone soil moisture estimation using dataâ€driven methods. <i>Water Resources Research</i> , 2014, 50, 2946-2962. | 4.2 | 57 |
| 24 | Spatial and Temporal Variability of Canadian Seasonal Streamflows. <i>Journal of Climate</i> , 2005, 18, 191-210. | 3.2 | 55 |
| 25 | Improving groundwater level forecasting with a feedforward neural network and linearly regressed projected precipitation. <i>Journal of Hydroinformatics</i> , 2008, 10, 317-330. | 2.4 | 52 |
| 26 | Validation of hydrological models for climate scenario simulation: the case of Saguenay watershed in Quebec. <i>Hydrological Processes</i> , 2007, 21, 3123-3135. | 2.6 | 47 |
| 27 | Entropy Applications to Water Monitoring Network Design: A Review. <i>Entropy</i> , 2017, 19, 613. | 2.2 | 46 |
| 28 | An evaluation of regionalization and watershed classification schemes for continuous daily streamflow prediction in ungauged watersheds. <i>Canadian Water Resources Journal</i> , 2017, 42, 2-20. | 1.2 | 45 |
| 29 | Identification of rainfallâ€runoff model for improved baseflow estimation in ungauged basins. <i>Hydrological Processes</i> , 2012, 26, 356-366. | 2.6 | 43 |
| 30 | Identification of hydrological models for operational flood forecasting in St. Johnâ€s, Newfoundland, Canada. <i>Journal of Hydrology: Regional Studies</i> , 2020, 27, 100646. | 2.4 | 42 |
| 31 | CRDEMO: Combined regionalization and dual entropy-multiobjective optimization for hydrometric network design. <i>Water Resources Research</i> , 2013, 49, 8070-8089. | 4.2 | 37 |
| 32 | Synthesis review on groundwater discharge to surface water in the Great Lakes Basin. <i>Journal of Great Lakes Research</i> , 2014, 40, 247-256. | 1.9 | 35 |
| 33 | Improving streamflow estimation in ungauged basins using a multi-modelling approach. <i>Hydrological Sciences Journal</i> , 2016, 61, 2668-2679. | 2.6 | 35 |
| 34 | Information theoryâ€based decision support system for integrated design of multivariable hydrometric networks. <i>Water Resources Research</i> , 2017, 53, 6239-6259. | 4.2 | 34 |
| 35 | Distributed modelling of future changes in hydrological processes of Spencer Creek watershed. <i>Hydrological Processes</i> , 2011, 25, 1254-1270. | 2.6 | 33 |
| 36 | Hydrometric network design using streamflow signatures and indicators of hydrologic alteration. <i>Journal of Hydrology</i> , 2015, 529, 1350-1359. | 5.4 | 33 |

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|----|---|-----|-----------|
| 37 | Evaluation of Canadian National Hydrometric Network density based on WMO 2008 standards. Canadian Water Resources Journal, 2013, 38, 159-167. | 1.2 | 32 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Variability in Canadian Seasonal Streamflow Information and Its Implication for Hydrometric Network Design. Journal of Hydrologic Engineering - ASCE, 2014, 19, . | 1.9 | 29 |
| 42 | 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 |
| 43 | An overview of river flood forecasting procedures in Canadian watersheds. Canadian Water Resources Journal, 2019, 44, 213-229. | 1.2 | 28 |
| 44 | Entropy based groundwater monitoring network design considering spatial distribution of annual recharge. Advances in Water Resources, 2016, 96, 108-119. | 3.8 | 27 |
| 45 | Neural Network-Based Long-Term Hydropower Forecasting System. Computer-Aided Civil and Infrastructure Engineering, 2000, 15, 355-364. | 9.8 | 26 |
| 46 | 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 |
| 47 | Impact of meteorological predictions on real-time spring flow forecasting. Hydrological Processes, 2003, 17, 3791-3801. | 2.6 | 24 |
| 48 | Inter-Comparison of Different Bayesian Model Averaging Modifications in Streamflow Simulation. Water (Switzerland), 2019, 11, 1707. | 2.7 | 24 |
| 49 | Sensitivity of Entropy Method to Time Series Length in Hydrometric Network Design. Journal of Hydrologic Engineering - ASCE, 2017, 22, . | 1.9 | 22 |
| 50 | Variability of Future Extreme Rainfall Statistics: Comparison of Multiple IDF Projections. Journal of Hydrologic Engineering - ASCE, 2017, 22, . | 1.9 | 22 |
| 51 | 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 |
| 52 | Flood Inundation Mapping in an Ungauged Basin. Water (Switzerland), 2020, 12, 1532. | 2.7 | 21 |
| 53 | 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 |
| 54 | Probabilistic Flood Forecasting Using Hydrologic Uncertainty Processor with Ensemble Weather Forecasts. Journal of Hydrometeorology, 2019, 20, 1379-1398. | 1.9 | 20 |

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|----|--|------|-----------|
| 55 | Introducing entropy-based Bayesian model averaging for streamflow forecast. <i>Journal of Hydrology</i> , 2020, 591, 125577. | 5.4 | 20 |
| 56 | Reducing multiplicative bias of satellite soil moisture retrievals. <i>Remote Sensing of Environment</i> , 2015, 165, 109-122. | 11.0 | 18 |
| 57 | Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3950-3959. | 6.3 | 16 |
| 58 | Hydrometric network design using dual entropy multi-objective optimization in the Ottawa River Basin. <i>Hydrology Research</i> , 2017, 48, 1639-1651. | 2.7 | 16 |
| 59 | Estimating Root Zone Soil Moisture at Continental Scale Using Neural Networks. <i>Journal of the American Water Resources Association</i> , 2017, 53, 220-237. | 2.4 | 15 |
| 60 | Historical Spatial and Temporal Climate Trends in Southern Ontario, Canada. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 2767-2787. | 1.5 | 15 |
| 61 | Downscaling Ensemble Weather Predictions for Improved Week-2 Hydrologic Forecasting. <i>Journal of Hydrometeorology</i> , 2011, 12, 1564-1580. | 1.9 | 14 |
| 62 | Pooled frequency analysis for intensity–duration–frequency curve estimation. <i>Hydrological Processes</i> , 2019, 33, 2080-2094. | 2.6 | 14 |
| 63 | Future shift in winter streamflow modulated by the internal variability of climate in southern Ontario. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3077-3096. | 4.9 | 14 |
| 64 | Application of SNODAS and hydrologic models to enhance entropy-based snow monitoring network design. <i>Journal of Hydrology</i> , 2018, 561, 688-701. | 5.4 | 13 |
| 65 | Evaluating the Dependence between Temperature and Precipitation to Better Estimate the Risks of Concurrent Extreme Weather Events. <i>Advances in Meteorology</i> , 2020, 2020, 1-16. | 1.6 | 13 |
| 66 | A deep learning model for predicting climate-induced disasters. <i>Natural Hazards</i> , 2021, 107, 1009-1034. | 3.4 | 13 |
| 67 | Potential of bias correction for downscaling passive microwave and soil moisture data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6460-6479. | 3.3 | 12 |
| 68 | Evaluation of Radar Quantitative Precipitation Estimates (QPEs) as an Input of Hydrological Models for Hydrometeorological Applications. <i>Journal of Hydrometeorology</i> , 2020, 21, 1847-1864. | 1.9 | 12 |
| 69 | Assessing Hydrologic Uncertainty Processor Performance for Flood Forecasting in a Semiurban Watershed. <i>Journal of Hydrologic Engineering - ASCE</i> , 2019, 24, . | 1.9 | 11 |
| 70 | Climate indices to characterize climatic changes across southern Canada. <i>Meteorological Applications</i> , 2020, 27, e1861. | 2.1 | 11 |
| 71 | Identification of Hydrological Models for Enhanced Ensemble Reservoir Inflow Forecasting in a Large Complex Prairie Watershed. <i>Water (Switzerland)</i> , 2019, 11, 2201. | 2.7 | 10 |
| 72 | Evaluation of Radar-Gauge Merging Techniques to Be Used in Operational Flood Forecasting in Urban Watersheds. <i>Water (Switzerland)</i> , 2020, 12, 1494. | 2.7 | 10 |

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| 73 | Integration of hydrological models with entropy and multi-objective optimization based methods for designing specific needs streamflow monitoring networks. <i>Journal of Hydrology</i> , 2021, 593, 125876. | 5.4 | 10 |
| 74 | A temporal downscaling approach for sub-daily gridded extreme rainfall intensity estimation under climate change. <i>Journal of Hydrology: Regional Studies</i> , 2021, 35, 100811. | 2.4 | 10 |
| 75 | Hybrid Surrogate Model for Timely Prediction of Flash Flood Inundation Maps Caused by Rapid River Overflow. <i>Forecasting</i> , 2022, 4, 126-148. | 2.8 | 10 |
| 76 | Improved Spring Peak-Flow Forecasting Using Ensemble Meteorological Predictions. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, . | 1.9 | 9 |
| 77 | Application of SMOS Soil Moisture and Brightness Temperature at High Resolution With a Bias Correction Operator. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 1590-1605. | 4.9 | 9 |
| 78 | Estimates of gridded relative changes in 24-h extreme rainfall intensities based on pooled frequency analysis. <i>Journal of Hydrology</i> , 2019, 577, 123940. | 5.4 | 9 |
| 79 | Atmospheric circulation amplifies shift of winter streamflow in southern Ontario. <i>Journal of Hydrology</i> , 2019, 578, 124051. | 5.4 | 8 |
| 80 | Evaluation and bias correction of SNODAS snow water equivalent (SWE) for streamflow simulation in eastern Canadian basins. <i>Hydrological Sciences Journal</i> , 2019, 64, 1541-1555. | 2.6 | 8 |
| 81 | Introducing the Ensemble-Based Dual Entropy and Multiobjective Optimization for Hydrometric Network Design Problems: EnDEMO. <i>Entropy</i> , 2019, 21, 947. | 2.2 | 7 |
| 82 | HUPâ€œBMA: An Integration of Hydrologic Uncertainty Processor and Bayesian Model Averaging for Streamflow Forecasting. <i>Water Resources Research</i> , 2021, 57, e2020WR029433. | 4.2 | 7 |
| 83 | Projected Changes in the Frequency of Peak Flows along the Athabasca River: Sensitivity of Results to Statistical Methods of Analysis. <i>Climate</i> , 2019, 7, 88. | 2.8 | 6 |
| 84 | Understanding Uncertainty in Probabilistic Floodplain Mapping in the Time of Climate Change. <i>Water (Switzerland)</i> , 2021, 13, 1248. | 2.7 | 6 |
| 85 | Use of Radar Quantitative Precipitation Estimates (QPEs) for Improved Hydrological Model Calibration and Flood Forecasting. <i>Journal of Hydrometeorology</i> , 2021, , . | 1.9 | 6 |
| 86 | Spatially constrained clustering of ecological units to facilitate the design of integrated water monitoring networks in the St. Lawrence Basin. <i>International Journal of Geographical Information Science</i> , 2016, 30, 390-404. | 4.8 | 5 |
| 87 | Assessing Spatial Scale Effects on Hydrometric Network Design Using Entropy and Multiâ€œObjective Methods. <i>Journal of the American Water Resources Association</i> , 2018, 54, 275-286. | 2.4 | 5 |
| 88 | Evaluation of Snowmelt Estimation Techniques for Enhanced Spring Peak Flow Prediction. <i>Water (Switzerland)</i> , 2020, 12, 1290. | 2.7 | 5 |
| 89 | Conservation planning as an adaptive strategy for climate change and groundwater depletion in Wadi El Natrun, Egypt. <i>Hydrogeology Journal</i> , 2018, 26, 689-703. | 2.1 | 4 |
| 90 | Technical guidelines for future intensityâ€œdurationâ€œfrequency curve estimation in Canada. <i>Canadian Water Resources Journal</i> , 2021, 46, 87-104. | 1.2 | 4 |

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|----|---|-----|-----------|
| 91 | Data-based disaggregation of SMOS soil moisture. , 2014, , . | | 3 |
| 92 | Data-Driven Community Flood Resilience Prediction. Water (Switzerland), 2022, 14, 2120. | 2.7 | 3 |
| 93 | 2009 Special Issue of the Journal of Hydroinformatics on Advances in Hydroinformatics. Journal of Hydroinformatics, 2009, 11, 165-165. | 2.4 | 2 |
| 94 | Examining differences in streamflow estimation for gauged and ungauged catchments using evolutionary data assimilation. Journal of Hydroinformatics, 2014, 16, 392-406. | 2.4 | 2 |
| 95 | Application of weather Radar for operational hydrology in Canada â€” a review. Canadian Water Resources Journal, 2021, 46, 17-37. | 1.2 | 2 |
| 96 | Design of an optimum soil moisture monitoring network using SMOS. , 2014, , . | | 1 |