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Forest Hydrology: Advances in Measuring and Modelling the Influences of Forests on Water Cycles

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

We now live in a new era, a new geological epoch—the Anthropocene, in which forest hydrology clearly faces a new mission. We need renewed, large-scale knowledge around forest hydrology, which views the Earth as an ecosystem. We need mechanistic explanations for hydrological patterns so that we can improve our ability to predict future changes. Fortunately, a series of new technologies have emerged, such as new sensors, eddy covariance techniques, satellite Li-DAR, processed-based models, and big data, which offer new approaches to answer to bigger questions.

It is for these reasons outlined above that we have proposed this Special Issue. You are welcome to submit your research to this issue. All topics related to forest hydrology are encouraged, for example:

- New technologies in forest hydrology research;
- Human disturbance and forest hydrological service;
- Process-based hydrological models;
- Forest management and climatic changes;
- Evapotranspiration;
- Forest–atmospheric interaction;
- Hydrological consequences for artificial tree plantations;
- Energy, water, and carbon fluxes;
- Forests and floods.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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