Special Issue

Hydrological Functions and Hydrological Modeling in Forested Watershed

Message from the Guest Editors

Forests play a critical role in the global hydrological cycle and functions. Trees absorb water from the soil and release it into the atmosphere as vapor through evapotranspiration, which can drive temperatures and rainfall across the globe. Healthy trees contain a structure of canopy, stem, leaves, and root systems in rainfall interception against watershed erosion, enhancing subsurface infiltration and thus improving water and soil conservation. The complete forest structure significantly increases the runoff roughness and resistance, including skin, shape, and form drag, making slower surface water, a more extended concentration time, and attenuated flood magnitude. Forests are dynamic ecosystems that provide crucial and diverse services. Excellent and accurate data supply a solid foundation for forest management, while modeling and simulations inform decision making. This Special Issue attempts to attract the latest and most novel ideas and techniques to understand the hydrological functions of natural, artificial, and impactful forests for improving the performance of hydrological modeling and vegetation hydrodynamics simulation in forested watersheds.

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Deadline for manuscript submissions

closed (30 July 2024)

Forests

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Impact Factor 2.5
CiteScore 4.6

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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