Special Issue

Advances in Forest Hydrology in Light of Human Intervention and Climate Change

Message from the Guest Editors

Forest hydrology has been extensively studied in recent decades, focusing on canopy interception, precipitation redistribution (streamflow and throughfall), soil moisture distribution, evapotranspiration, and recharge. Understanding water movement in forest systems extends beyond modeling; it is essential for forest management and planning to ensure ecosystem services such as water yield and nutrient cycles. However, many studies have relied on short monitoring periods, limiting our understanding of human and climate impacts on forest hydrology. This Special Issue seeks to enhance our knowledge of forest hydrology in relation to human intervention and climate change. We welcome studies that introduce new methods, knowledge, and models concerning this interface, including: (i) modeling forest hydrology under varying climate change scenarios; (ii) case studies on forest hydrology responses to human activities; (iii) nutrient and hydrological cycles in urban forests; and (iv) forest resilience and adaptation to extreme events. Original research that examines forest resilience and ecosystem services under climate extremes and human pressures is particularly encouraged.

Guest Editors

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Deadline for manuscript submissions

29 September 2025

About the Journal

Message from the Editor-in-Chief

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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