

## Special Issue

# Recent Advances and Future Perspectives in Forest Hydrology

### Message from the Guest Editors

Forests fundamentally regulate precipitation partitioning, evapotranspiration, runoff, groundwater recharge, and water quality, yet global and local syntheses consistently reveal critical research gaps and unsolved topics. Key uncertainties concern deep percolation and surface–groundwater coupling, hydrological feedbacks in understudied biomes (tropical, boreal, warm, and cold semi-arid), the role of climate extremes, and the conversion of process knowledge into basin- to continental-scale models and water-governance frameworks. Addressing these gaps is essential for forecasting water availability and quality, mitigating flood and drought risks, and designing nature-positive forestry interventions under rapid land-use and climate change.

By tackling these frontiers, this Issue will provide a comprehensive evidence base needed to inform sustainable forest and water-resource policy worldwide.

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### Guest Editors

Dr. Francisco Balocchi

Dr. Andrés A. Iroumé

Dr. Silvio Ferraz

Dr. Teresa Reyna

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### Deadline for manuscript submissions

31 December 2025



## Forests

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### 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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### Editor-in-Chief

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