Special Issue

Forests for Soil and Water Conservation: Strategies and Innovations

Message from the Guest Editors

Soil erosion is a major environmental and socio-economic issue linked to climate extremes, unsustainable land use, and especially forest ecosystem degradation. Recent advances in remote sensing, modelling, and computational tools have significantly improved our ability to detect and predict erosion processes—particularly in forested landscapes and watersheds. This Special Issue invites innovative research in three key areas:

1. Scenario-based modelling of soil erosion under combined land use and climate change impacts in forested watersheds;
2. Multisensor remote sensing for erosion monitoring in forested and mountainous regions;
3. Machine learning and simulations to understand erosion drivers within forest–water systems and integrated watershed management.

We especially welcome studies using Earth observation data (e.g., Sentinel, LiDAR, UAV), dynamic environmental predictions, and interpretable models. Contributions may include novel methods or applied case studies that highlight forests' role in erosion control and conservation. Our goal is to promote interdisciplinary, scalable knowledge that supports effective soil, water, and forest management.

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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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