

Special Issue

Greenhouse Gas Fluxes from Forest Soils: Underlying Processes and Drivers

Message from the Guest Editors

Forest soils play a critical role in global carbon and nitrogen budgets, functioning as dynamic sources or sinks for CO₂, CH₄, and N₂O. However, the spatiotemporal patterns of these greenhouse gas (GHG) fluxes and their responses to global climate change (e.g., warming, nitrogen deposition) remain complex and uncertain. This Special Issue aims to characterize GHG emissions in forest ecosystems and explore the underlying biological mechanisms. We invite contributions focusing on field monitoring of GHG fluxes, the impact of forest management and environmental changes on emission intensity, and the potential microbial processes driving these dynamics. By integrating flux observations with mechanistic insights, this Special Issue seeks to advance our understanding of forest–climate feedback loops.

Guest Editors

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Deadline for manuscript submissions

25 October 2026



Forests

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by MDPI

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.

Editor-in-Chief

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