

## Special Issue

# The Forest Soil Carbon in a Changing World

### Message from the Guest Editors

The forest ecosystem, where the soil carbon pool accounts for 45% of its carbon stock, is the largest carbon pool in the terrestrial ecosystem. Global changes are affecting forest soil carbon processes, leading to positive or negative feedback from forests to the atmosphere. Therefore, a comprehensive understanding of the mechanisms by which forest soil carbon processes respond to global changes is necessary. The soil carbon process is regulated by multiple factors, including aboveground litter, root turnover, rhizosphere exudates, microbial decomposition and physical and chemical properties. With the intensification of global changes and the interaction of global change factors, the forest soil carbon process is becoming more complex. This Special Issue aims to provide an important scientific basis for climate change mitigation and further enrich the theory of carbon processes. Potential topics include, but are not limited to:

- Root production;
- Root exudates;
- Root phenology;
- Soil respiration;
- Soil carbon components;
- Role of roots and microbes in regulating soil carbon.

### Guest Editors

Dr. Chao Fang

Dr. Ziqiang Yuan

Dr. Jordi Sardans

Dr. Xin Song

### Deadline for manuscript submissions

closed (25 July 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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