

## Special Issue

# Soil Organic Carbon Assessment, 2nd Edition

### Message from the Guest Editors

Soil organic carbon (SOC) is the largest terrestrial C pool, and it plays a critical role in sustaining soil health. Multiple soil properties and processes are influenced by SOC. Land use conversion and management may result in higher SOC loss and CO<sub>2</sub> emission, while enhanced management strategies can promote SOC sequestration and mitigate greenhouse gas emissions. Thus, assessing SOC in natural and agricultural ecosystems is critical in order to provide insights into the impact of anthropogenic activities on ecosystem services. This Special Issue aims to present original research articles, reviews, and short communications concerning the following topics: (1) measuring and assessing SOC stocks and characteristics under sustainable agroecosystem management; (2) monitoring and modeling SOC dynamics in natural ecosystems affected by land use; (3) investigating SOC influenced by microbial processes; (4) plant root–soil interactions and SOC sequestration; and (5) SOC and greenhouse gas emissions influenced by temporal or spatial variability in the environment.

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### Guest Editors

Dr. Sutie Xu

Dr. Jing Hu

Dr. Virginia L. Jin

Dr. Navreet Mahal

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### Deadline for manuscript submissions

30 May 2025



## Environments

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## About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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### Editor-in-Chief

Prof. Dr. Sergio Ulgiati

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