## Special Issue

# Research on Soil Carbon Dynamics at Different Scales on Agriculture

#### Message from the Guest Editors

We invite submissions that mainly assess the available knowledge and evidence on the soil organic carbon dynamics, carbon pool and carbon sequestration potential of various ecosystems (e.g., agriculture, grassland and wetland ecosystems and land cover and use change) across a wide range of disciplines (e.g., agronomy, ecology, biology, geomorphology, hydrology, and geographic information science). They can be based on simulated/manipulative experiments, field observational, modeling, and meta-analytic techniques. Research areas may include, but are not limited to, the following:

- Effects of environmental factors on agricultural soil carbon dynamics, carbon sequestration and carbon storage;
- 2) The influence and mechanism of species heterogeneity and population/ community structure change (including plants, animals, and microorganisms) on soil carbon cycling;
- Linkages between agricultural soil carbon cycling and other elements (such as nitrogen, phosphorus, sulfur, and silicon);
- 4) The effects of land use change and cover on soil carbon dynamics;
- 5) Conservation and restoration solutions to improve the ecological services of soil and enhance carbon sink function.

#### **Guest Editors**

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#### Deadline for manuscript submissions

closed (10 November 2025)



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Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

#### Editor-in-Chief

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