

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: 1) 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; 3) 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

25 October 2025



Agriculture

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Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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