

Special Issue

The Effects of Crop Tillage Systems on Carbon Dynamics in Soils

Message from the Guest Editors

Building up soil organic matter stock in croplands can greatly help tackle the three main challenges faced by world agriculture today: high productivity, low greenhouse gases emissions and adaptation to climate change. Measurement, monitoring, and modelling of carbon dynamics in soils are of major importance for understanding the potential ability of soil management techniques to help carbon sequestration in soils. The development of carbon-friendly crop tillage systems is required at the regional level. Key topics in this Special Issue include but are not limited to the following:

- The assessment of carbon dynamics and monitoring greenhouse gases fluxes from soil under various cropping systems;
- The effects of organic fertilizers (crop residues, animal manures, compost, biochar, ashes etc.) on soil carbon dynamics;
- Conservation agriculture and other non-conventional land management practices for the enhancement of carbon sequestration in soils;
- Modelling of soil carbon dynamics under various cropping systems and changing climate conditions;
- Economic assessment of the suitability of various crop tillage systems for increasing organic carbon stock in soils.

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