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.

Guest Editors

Dr. Pavel Krasilnikov

Department of Soil Geography, Lomonosov Moscow State University, Leninskie Gory 1, 119991 Moscow, Russia

Dr. Miguel A. Taboada

Instituto De Investigación Suelos, Instituto Nacional de Tecnología Agropecuaria, Nicolas Repetto y de los Reseros s/n, Buenos Aires 1686, Argentina

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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