



## Tillage Effects on Soil Carbon Sequestration and Soil Organic Matter

Guest Editor:

**Prof. Dr. Xiaoliang Qin**

College of Agronomy, Northwest  
A&F University, Yangling,  
Xianyang 712100, China

Deadline for manuscript  
submissions:

**closed (15 July 2022)**

### Message from the Guest Editor

Agro-ecosystem is an important part of terrestrial ecosystems, which accounts for 8% -10% of terrestrial soil carbon storage. Along with the global commitment to greenhouse gas reduction and food security, the dynamic change of soil organic carbon in agro-ecosystems is increasingly becoming a hot topic in the study of organic carbon. Different tillage measures affect carbon cycling of agro-ecosystem, improper agricultural management measures can easily cause more carbon emissions, and reasonable farming measures are useful for carbon sequestration in farmland. The accumulation of soil organic carbon can not only improve soil productivity, but also reduce the increase rate of atmospheric CO<sub>2</sub> concentration.

The aim of this issue is to bring together contributions about SOC storage and sequestration under different tillage measures, to show how different tillage measures affecting soil organic are intercepted for better understanding of SOC-related soil processes, and explore the stability mechanism of soil carbon sequestration for better assessing of how to achieve an increase in SOC stocks.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

## Contact Us

---

Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agriculture  
agriculture@mdpi.com  
X@AgricultureMdpi