

Special Issue

Dynamics of Organic Matter in Agricultural Soil Management Systems

Message from the Guest Editors

This Special Issue will focus on how Soil organic matter (SOM) responds to different agricultural soil management methods (e.g., fertilization and/or other soil amendments, irrigation, tillage, crops and crop rotations, etc.) and contributes to ecosystem services (e.g., soil structure, fertility, C sequestration, greenhouse gas emissions, nutrient cycling, plant growth and crop yield, etc.). We welcome cutting-edge research that utilizes advanced techniques, such as isotopic tracing, spectrum analysis, omics technologies, and modeling, to unravel the complex dynamics of SOM formation and persistence. Topics of interest include, but are not limited to, the following: Effects of agricultural soil management on SOM content and composition. Microbial preferences for plant-derived substrates and their impact on SOM formation and stabilization. SOM-controlled microbial interactions. Effect of environmental factors (e.g., climate, soil properties) on SOM persistence. Innovative strategies to enhance SOM quantity and quality through plant-microbe-soil interactions. SOM and soil physicochemical and biological functioning.

Guest Editors

Dr. Hao Chen

School of Agriculture and Biotechnology, Sun Yat-sen University, Shenzhen 518107, China

Dr. Xinliang Dong

The Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, The Chinese Academy of Sciences, Shijiazhuang 050021, China

Deadline for manuscript submissions

10 January 2026



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/247039

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

[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



[mdpi.com/journal/
agriculture](https://mdpi.com/journal/agriculture)



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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

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)