

Special Issue

Innovations and Obstacles: Microbial Communities in the Journey of Soil Remediation

Message from the Guest Editor

With an increasing pressure on shifting to sustainable means of agriculture and food demand, agricultural soils are facing strong human-induced stresses such as exceeding chemical inputs, improper application of pesticides, etc. Such activities have caused an imbalance in soil microbiome, further disturbed microbe-mediated C, N and P cycles. Thus, it is time to modify soil properties and the microbiome, in the direction of accelerating soil nutrient recovery and disease resistance. With increasing pressure on agriculture soils, microbiome-based strategies have exhibited tremendous potential. The emphasis has now shifted from the storage of potent individual strains to the preservation of beneficial microorganisms and further establishing a healthy soil microbiome. Papers relevant to the following topics are welcomed to this Special Issue, including, but not limited to:

- Soil remediation in terms of fertility increase, abating hazardous substances and crop growth enhancement;
- Beneficial microbe-protecting techniques, and their transplantation and subsequent application.

Guest Editor

Dr. Dong Liu

The Germplasm Bank of Wild Species, Yunnan Key Laboratory for Fungal Diversity and Green Development, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, China

Deadline for manuscript submissions

closed (25 December 2025)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/199849

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

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





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



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



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, 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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)