

## Special Issue

# Biochar Applications in Agricultural Soil Restoration

### Message from the Guest Editor

Biochar has emerged as a promising solution for agricultural soil restoration, with the potential to improve soil quality, increase fertility, and mitigate environmental degradation. This Special Issue aims to explore the latest advancements in biochar research, particularly its role in soil restoration for agricultural productivity and environmental sustainability. This Special Issue mainly solicits research papers in the following areas:

- Long-term (5 or more years' application) effects of the field application of biochar;
- Applications of biochar in improving the quality of degraded agricultural soils (e.g., acidic soils, saline soils, and polluted soils);
- Effects of biochar on carbon sequestration and greenhouse gas emission reduction in agricultural soils;
- Effects and mechanisms of biochar application, including direct comparative studies on the effects of biochar derived from different feedstocks, as well as studies on the application rates and durations of biochar application, in addition to its synergistic effects with other soil amendments.

### Guest Editor

Dr. Chenyang Xu

College of Natural Resources and Environment, Northwest A&F University, Yangling 712100, China

### Deadline for manuscript submissions

closed (20 June 2025)



## Agriculture

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/225767](https://mdpi.com/si/225767)

*Agriculture*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agriculture@mdpi.com](mailto: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)