

## Special Issue

# The Effects of Biochar on Organisms

### Message from the Guest Editor

Biochar is a pyrolysis byproduct that has been widely proposed as an option to improve soil fertility, mitigate soil degradation, reduce soil greenhouse gas emissions, and remediate contamination in all matrices (air, water, soil). The changes induced in matrix properties are known to have a direct impact on ecosystems, with consequences also for the entire biota community, such as plants and all types of microorganisms, including fungi, meso-, and macrofauna. Although several studies have investigated in the interplay between biochar and plants, microorganisms, and fauna, there is a clear lack of information on temporal variation and on whether these changes remain in time. However, a fuller understanding of the effects that these changes could have on plant and animal physiology and biodiversity and processes is needed. A better understanding of the biochar effects on biota would therefore enable us to better manage its eventual adverse effects and mitigate them.

---

### Guest Editor

Dr. Sara Di Lonardo

Research Institute on Terrestrial Ecosystems—National Research Council (IRET-CNR), 50019 Sesto Fiorentino, Italy

---

### Deadline for manuscript submissions

closed (20 May 2022)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/65576](https://mdpi.com/si/65576)

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