## **Special Issue**

# Application of Biochar in Sustainable Soil Management: Challenges and Perspectives

## Message from the Guest Editors

The application of biochar to agricultural soils plays an affective role not only in sustaining nutrient sources in deficient soils but also is important for soil moisture content or soil remediation issues. Therefore, biochar application as a soil amendment is regarded as a promising method of agricultural practice with aim of improving soil productivity and plant growth with the lowest environmental adverse effects. A deeper understanding of the biochar–soil–crop relationship could provide a more clear role of soil management in terms of sustainable agriculture and environmental benefits.

This Special Issue focuses on the assessment of the potential role of biochar application in treating problematic soils, and its impact on soil and crop quality and productivity from multiple aspects such as plant growth, grain yield, soil pollution, soil fertility, soil moisture, soil aggregation, greenhouse gas emission, nutrient cycling, carbon sequestration and nutrient leaching. We therefore encourage the submission of case studies, meta-analysis and reviews that are relevant to the scope of this Special Issue.

### **Guest Editors**

### Dr. Mohammad Ghorbani

Department of Agroecosystems, Faculty of Agriculture and Technology, University of South Bohemia in Ceske Budejovice, Branišovská 1645/31A, 370 05 Ceske Budejovice, Czech Republic

#### Dr. Elnaz Amirahmadi

Department of Agroecosystems, Faculty of Agriculture and Technology, University of South Bohemia in Ceske Budejovice, Branišovská 1645/31A, 370 05 Ceske Budejovice, Czech Republic

### **Deadline for manuscript submissions**

closed (20 July 2024)



# **Agriculture**

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



mdpi.com/si/195651

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

mdpi.com/journal/agriculture





# **Agriculture**

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



## **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)

