



Long Term Agronomical, Physiological and Environmental Implications of Biochar Use in Agricultural Soils

Guest Editors:

Dr. Francesco Primo Vaccari

Dr. Silvia Baronti

Dr. Nicolas Greggio

Dr. Diego Marazza

Deadline for manuscript
submissions:

closed (20 December 2022)

Message from the Guest Editors

This Special Issue is open to contributions (research papers and reviews) exploring the effect of biochar and its blend with other biowaste products on soil fertility and crop yield, posing particular attention on the interaction among soil, plant and microorganisms occurring in the rhizosphere. In particular, the SI will focus on medium–long term effects of biochar and its blend on:

- Biochar effects on plant ecophysiology and phenology;
- Interaction of biochar with other routes based on the use of biowaste such as composting, anaerobic digestion etc., in order to produce innovative amending media able to increase soil C storage;
- Soil C modelling including, among others, biochar;
- Potential harmful elements and related bioavailability in soils, along with PHEs distribution in plant tissues;
- Biogeochemical soil cycle for nutrients and PHEs as well as physico-chemical and hydrological profiles of biochar amended soils;
- Effects of biochar on phytohormones and other bio-stimulants in the rhizosphere;
- Biochar effects on soil macro e microbiota.





an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi