

Special Issue

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

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 biostimulants in the rhizosphere;

- Biochar effects on soil macro e microbiota.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2022)



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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.

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