

Special Issue

Applications of Biochar and Other Organic Amendments within a Sustainable Agriculture and Circular Economy

Message from the Guest Editors

Dear colleagues, The soil organic matter (SOM) comprises approximately 2/3 of the global terrestrial C pool and plays a vital role not only in biological aspects but also in soil fertility and quality. Consequently, the decline of SOM represents one of the most serious threats facing many arable lands of the world. At the same time, human activities cause a net release of CO₂ to the atmosphere of about 800 Gt C per year. In an attempt to reverse this trend, sustainable agriculture is being promoted in a context of a circular economy. During the last decades several organic amendments (e.g. biochar, manure, etc.) have been rediscovered and recognized as an efficient strategy for soil preservation. In addition, they offer a sustainable approach for managing wastes and to produce added value products. Considering the current trend of fostering a sustainable agriculture and circular economy, this Special Issue seeks to increase the knowledge on the latest advances concerning the application of biochar and other organic amendments in agriculture, as well as for the restoration of degraded soils, covering biological, chemico-physical, biochemical and environmental aspects.

Guest Editors

Prof. Dr. José De la Rosa

Instituto de Recursos Naturales y Agrobiología de Sevilla, Consejo Superior de Investigaciones Científicas (IRNAS-CSIC), Reina Mercedes Av. 10, 41012 Seville, Spain

Dr. Marina Paneque

Chemical Biological Centre, Umeå University, Umeå, Sweden

Deadline for manuscript submissions

closed (15 March 2021)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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