

Special Issue

Advanced Research of Biochar Application to Agricultural Soils

Message from the Guest Editors

Between ancient *Terra Preta de Índio* principles and a modern, several decades-old concept of biochar application to soil stands a vast body of literature on biochar as a powerful environmental management and sustainable agriculture tool, making it a promising integrative part of climate adaptation strategy. Underlying physicochemical processes in soil-biochar media result in improved soil water holding and long-term carbon storage capacities, nutrient and water use efficiency, as well as contaminant retention. Nevertheless, little is still known on the mechanisms of biological interactions, especially in long-term and large-scale trials. Although since 2020 biochar has been listed by EU Regulation as a fertilizer/conditioner for organic farming, its application in conventional farming has not yet been adopted as EU current practice. One way to overcome this is advancing the standardization and use of engineered biochars to match both soil and crop requirements without compromising soil functions. This Special Issue is seeking manuscripts that assess the health of agricultural soils and the efficacy of applied amendments.

Guest Editors

Dr. Marija Prodana

CESAM-Centre for Environmental and Marine Studies & Department of Biology, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

Dr. Flávio Silva

CESAM-Centre for Environmental and Marine Studies & Department of Environment and Planning, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

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

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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

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