

Special Issue

The Effects of Biochar on Organisms

Message from the Guest Editor

Biochar is a pyrolysis byproduct that has been widely proposed as an option to improve soil fertility, mitigate soil degradation, reduce soil greenhouse gas emissions, and remediate contamination in all matrices (air, water, soil). The changes induced in matrix properties are known to have a direct impact on ecosystems, with consequences also for the entire biota community, such as plants and all types of microorganisms, including fungi, meso-, and macrofauna. Although several studies have investigated in the interplay between biochar and plants, microorganisms, and fauna, there is a clear lack of information on temporal variation and on whether these changes remain in time. However, a fuller understanding of the effects that these changes could have on plant and animal physiology and biodiversity and processes is needed. A better understanding of the biochar effects on biota would therefore enable us to better manage its eventual adverse effects and mitigate them.

Guest Editor

Dr. Sara Di Lonardo

Research Institute on Terrestrial Ecosystems-National Research Council (IRET-CNR), Via Madonna del Piano 10, 50019 Sesto Fiorentino, FI, Italy

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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