Special Issue

Biochar and Ecosystem Function: Applications in Agroforestry, Urban, and Peri-Urban Soils

Message from the Guest Editors

Ecosystem functions are key to sustaining various land-use systems, as they regulate essential ecological processes and biological systems. These functions depend on environmental conditions that are often threatened by climate change and increasing anthropogenic pressure; this is particularly true for highly disturbed ecosystems such as urban, peri-urban, and agroforestry systems.There has been increasing interest in using biochar, or pyrolyzed biomass added to soils, as a solution to address many of these challenges. This Special Issue focuses on biochar applications in highly disturbed ecosystems. We intend to compile cutting-edge knowledge on biochar applications to restore and improve ecosystem functions, including (but not exclusive to) erosion control, nutrient retention, pollutant immobilization and detoxification, microbial community function, greenhouse gas emissions, and plant growth. We invite a variety of manuscript formats on this research topic, including, but not limited to, reviews, method papers, and original research, including both laboratory and field studies.

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