Special Issue

Climate Change and Carbon Footprint: Implications and Solutions for Crop Production

Message from the Guest Editors

Intensive land farming is considered to be an environmental concern for its effects on atmospheric concentration of greenhouse gases (GHGs) and on soil C sequestration. Enhanced soil organic matter turnover due to the agricultural practices leads to a decrease in soil C stock and an increase of CO2 emissions, contributing to changes in the climate. The application of organic materials to arable soil can improve fertility, in terms of plant nutrients and as a source of stable organic matter, reducing the production of mineral fertilizers, and, thus, the use of fossil fuels. Based on these considerations, the organic materials derived from different stabilization treatments can be a valuable practice for sustainable agriculture. In this Special Issue, we encourage authors to present the results of research on the use of biofertilizers derived from the valorisation of different organic materials, in order to assess their effect, in terms of GHG emissions, carbon sequestration, and crop production.

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