Special Issue

Organic Amendments to Low-Fertility Soils: Current Status and Future Prospects

Message from the Guest Editors

Low soil fertility is a common problem in many regions around the world. Soil degradation leads to conditions that threaten soil function and productivity, including salinization, desertification, erosion, nutrient depletion, etc. There is increasing interest in rehabilitating low-fertility soils to improve crop yield and sustainability. The addition of organic amendments (i.e., manure, green manure, straw, biochar, biofertilizer) to low-fertility soils has become a common practice over the last few decades to improve soil microenvironment and consequently soil health. Since a single process cannot represent the complexity of agroecosystems in the real world, it is still unclear how organic amendments impact soil quality and ecosystem multifunctionality. Moreover, recent studies confirmed that the application of a combination of organic ameliorants presents more benefits to increase nutrient utilization and microbial activities, thus improving soil health. Nevertheless, the effects of the combination of organic amendments on low-fertility soil health are still unclear.

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