

Special Issue

Soil Health Solutions for Sustainable Agriculture

Message from the Guest Editor

Soil health is crucial for sustainable agriculture, global food systems, environmental resilience, and biodiversity preservation. However, unsustainable farming resulted in declining soil fertility, degradation, and increased vulnerability to climate change. This Special Issue addresses the urgent need for innovative, science-based solutions to restore and sustain soil health. The base for this is soil analysis, which provides essential data on soil composition, nutrient availability, and microbial ecosystems. AI-powered tools have the potential to transform soil health assessment, management, and prediction, enable the integration of soil data with environmental and climatic variables, and allow farmers to anticipate nutrient deficiencies and erosion, optimizing soil productivity. This Special Issue explores diverse strategies to rebuild soil structure and improve fertility, including conservation tillage, crop rotation, biofertilizers, and organic farming practices. It also emphasizes policy frameworks and community engagement. Together, these approaches provide resilient agricultural systems, enhanced carbon sequestration, and long-term environmental sustainability.

Guest Editor

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