Special Issue

Innovations in Soil Fertility Improvement for Sustainable Agriculture

Message from the Guest Editor

Soil is the essential provider of nutrients and water for plant growth. The enhancement of soil fertility plays a pivotal role in improving crop yields and promoting agricultural sustainability. The irrational use of mineral fertilizers and intensive farming practices has had adverse effects on biodiversity, significantly deteriorating the physical and chemical properties of soils. Optimizing nutrient management (such as the utilization of organic fertilizers, biochar, and other sustainable amendments alongside a reduction in mineral fertilizer application) and implementing prudent tillage practices (including conservation tillage, straw incorporation, crop rotation, and intercropping) can effectively enhance soil fertility, improve crop quality, and facilitate agricultural sustainability.

This Special Issue focuses on the impact of various tillage and nutrient management practices on soil fertility. Topics include but are not limited to conservation tillage, straw returning, crop fertilization, crop rotation and diversity, and integrated nutrient management. All types of articles, such as original research, opinions, and reviews, are welcome.

Guest Editor

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