

Special Issue

Diversified Cropping for Sustainable Soil Fertility and Efficient Crop Production

Message from the Guest Editors

This Special Issue seeks to elucidate the synergistic regulatory mechanisms by which diversified cropping systems—such as intercropping, relay cropping, crop rotation, fallow, and mixed cropping—influence soil physicochemical and biological fertility. It also aims to explore technical approaches and region-specific strategies that balance soil health preservation with high-efficiency crop production. The scope of this issue spans interdisciplinary research areas, including innovative cropping system design, dynamics of soil fertility evolution, mechanisms underlying enhanced crop productivity, integration of supporting agronomic practices, and large-scale regional demonstration projects. Existing studies have predominantly focused on soil fertility or crop production in isolation. This Special Issue is poised to fill the research gap regarding the coupling mechanisms among “diversified cropping–soil fertility sustainability–efficient crop production”, enrich the theoretical system and technical support for sustainable agricultural development, and align with the journal's core positioning of addressing sustainability challenges and advancing multi-dimensional integrated solutions.

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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