Special Issue

Sustainable Soil and Fertility Management Strategies for Tree Crops in Arid Environments Under Climate Stress

Message from the Guest Editor

In this issue the necessity of developing resilient soil management systems and innovative fertilization strategies pivotal for maintaining agricultural sustainability is discussed. Traditional tillage methods can be improved, which have been shown to enhance water use efficiency and soil health, ultimately leading to better yields and environmental sustainability. Improved fertilization practices should be followed by conservation practices to maximize agricultural resilience. Crop rotation and cover crops greatly contribute to improving soil structure and water retention, particularly beneficial in areas affected by soil degradation. Furthermore, organic amendments and conservation practices must be employed to improve crop resilience because these practices improve soil fertility and stimulate beneficial microbial activity. This aligns with climate-smart agriculture, which aims to adapt to climate impacts while enhancing carbon sequestration and food security. Pre-adaptation measures focusing on diversification of crops and better management of soil fertility guarantee long-term viability and resilience of tree crops in arid environments.

Guest Editor

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