



Sustainable Management of Agriculture with a Focus on Water and Soil

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Message from the Guest Editor

It is estimated that by 2050, agriculture will need to produce 60 percent more food globally to meet the growing food demand. On the other hand, about one-third of the food produced is wasted throughout the supply chain, with enormous financial and environmental costs. The current agricultural production is unsustainable because of the increasing water scarcity, soil degradation, and negative impacts of climate change. Sustainability can be achieved by developing technical, policy, governance, and financial frameworks to support agricultural producers and resource managers in adopting innovations. Since irrigation and drainage practices directly impact the sustainability of crop production, soil and agricultural water management is crucial in modern agriculture. Increasing competition for water from different sectors has forced the agriculture sector to reduce its share of freshwater and look for alternate water resources to meet its demand. Sustainable agricultural practices must make full use of technology, research, and development to ensure efficient utilization of soil and water resources.





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