



Agrifood Production and Conservation Agriculture

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Message from the Guest Editors

Globally, the agricultural production system faces multipronged challenges of soil degradation risk by erosion and nutrient loss, a sharp decline in soil organic carbon pool (SOC), climate change, a shift in pest complex, yield stagnation, energy intensiveness, and poor economic returns, making farming a non-profitable enterprise. Thus, there is an urgent need to emphasize the conservation effective technologies, sustainable intensification, climate-resilient, and eco-efficient agriculture to achieve the numerous millennium sustainable development goals (SDGs). Conservation agriculture (CA) is one such approach to potentially address multiple challenges and enhance crop productivity, profitability, and environmental sustainability. CA-centric soil and crop management practices can play a vital role in addressing issues related to agri-food insecurity and environmental sustainability. CA offers an opportunity to rehabilitate degrading natural resources, save time, labor, and energy besides reducing greenhouse gas (GHG) emissions, production costs, making farming a resource-efficient and profitable venture.





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