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Effective Soil and Water Conservation Practices in Agriculture

Guest Editor:

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Message from the Guest Editor

The increasing trend in the world population that is projected to be approximately 10 billion people by 2050 is putting pressure on the limited soil and water resources and food production under a changing climate. Soil and water resources are being degraded through agricultural expansion by diverse natural and anthropogenic factors, which create a non-balanced system, decreasing system sustainability. To tackle these challenges, different strategies have been investigated by scientists and crop producers to improve soil and water management for resource conservation. Different practices are used to target crop selection to enhance abiotic and biotic stress tolerance, crop choice for increased resilience, smart agriculture, precision water management, no-till, and conservation tillage, efficient utilization of the available land resources to improve crop productivity per unit inputs (e.g., water and crop nutrients) and promote agriculture sustainability and protect the environment, efficient use of surface and groundwater, protection of natural ecosystems, soil protection, erosion control associated with different tillage practices, reduce sediment transport and cover cropping.

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Message from the Editor-in-Chief

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