Special Issue

Advances in Soil Fertility and Crop Management in Conservation Agriculture

Message from the Guest Editors

Soil fertility management is crucial for successful crop production in conservation agriculture (CA), as it improves soil nutrients, supports plant growth, boosts yields, and addresses rising global food demands driven by population growth. Lal (2015) proposed a fourth principle to complement the CA framework: (1) minimal soil disturbance, (2) permanent soil cover with residue mulch, (3) crop rotation, and (4) integrated nutrient management.

By incorporating integrated nutrient management, CA becomes a more holistic system for sustainable and climate-smart agricultural intensification. This approach enables farmers to achieve higher productivity and profitability while improving soil health and environmental sustainability.

Integrated soil fertility management, a core component of CA, employs locally adapted practices to enhance soil health, helping farmers reduce fertilizer use while maintaining yields and increasing profitability.

Advancing knowledge of soil fertility management across agroecological regions is essential for sustaining productivity with minimal ecological and economic costs.

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Editor-in-Chief

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