

Special Issue

Conservation Agricultural Practices for Improving Crop Production and Quality—2nd Edition

Message from the Guest Editors

Conservation agriculture (CA) is a crop and soil management practice for sustainable agriculture, defined by three related principles: minimum tillage and soil disturbance, permanent organic soil cover, and diversified crop rotations. Adherence to these principles improves soil quality, optimizes yields, and reduces production costs. Conservation practices can minimize soil erosion, directly increase CO₂ sequestration and organic matter levels in the soil, improve the efficiency of water retention in soil and water use efficiency by crops, stimulate C and N cycling, and thereby mitigate greenhouse gas emissions. CA's success is driven by component technologies such as water, weed, and nutrient management strategies to support crops under reduced tillage conditions.

Our aim is to present conservation agricultural practices and management systems that deliver high crop yields and quality while maintaining/enhancing soil quality/fertility, reducing carbon footprints and enhancing biodiversity and associated ecosystem services.

Both original research and review articles are welcome.

Guest Editors

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Editor-in-Chief

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