Special Issue

Optimizing Best Management Practices for Climate-Smart Agriculture: Carbon Sequestration, Resilience, and Productivity

Message from the Guest Editors

Climate change poses critical challenges to agricultural sustainability by threatening soil quality, reducing productivity, and intensifying climate-related risks. To address these challenges, Climate-Smart Agriculture (CSA) promotes an integrated approach to enhancing agricultural productivity, resilience, and climate mitigation. At the heart of CSA lies the strategic implementation and optimization of Best Management Practices (BMPs) that support long-term soil fertility, reduce greenhouse gas emissions, and enhance farm system resilience. This Special Issue aims to gather cutting-edge research, reviews, and case studies that evaluate and optimize BMPs for CSA across various agroecosystems and climate zones. We particularly welcome studies that assess BMPs in terms of carbon sequestration, climate resilience, and productivity outcomes, while bridging science, practice, and policy.

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