

Special Issue

Climate-Smart Agriculture Technologies: Bridging Science, Systems, and Solutions

Message from the Guest Editors

Agricultural systems worldwide face increasing challenges from climate change, resource constraints, and the need to feed a growing population sustainably. Climate-smart agriculture (CSA) offers an integrated framework to enhance productivity, resilience, and reduce environmental impacts of climate change on agriculture. This Special Issue highlights CSA technologies that integrate scientific innovation, system approaches, and actionable solutions to address the complex effects of climate change on agriculture. It encompasses interdisciplinary advances in agronomy, engineering design, climate modeling, socio-economic assessments, and digital decision-support tools across diverse agroecological and policy contexts. We invite original research, reviews, and case studies that advance the scientific understanding, system integration, and practical deployment of CSA technologies. Contributions demonstrating stakeholder co-development, scalable implementation, and policy relevance are particularly encouraged.

Guest Editors

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