Special Issue

Climate Change in Agriculture: An Interdisciplinary Approach to Adaptation and Mitigation

Message from the Guest Editors

Agriculture today stands at a crossroads as climate change reshapes food production. By adopting regenerative practices that restore soil health and capture carbon, and utilizing precision farming and digital tools for smarter, more efficient production, farmers are responding with ingenuity, deploying a multifaceted approach to adaptation and mitigation. At the same time, organic and agroecological approaches aim to protect biodiversity and promote sustainability. Climate change is already affecting global food security by altering crop yields and quality, spreading pests and diseases, and forcing changes in animal husbandry. Ensuring a stable food supply calls for forward-thinking strategies that balance productivity with resilience. Effective water management is now critical, encompassing smarter irrigation, robust solutions for droughts and extreme rainfall, and the safe utilization of wastewater as key adaptive strategies.

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