

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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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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