Special Issue

Climate Change and Crop Response

Message from the Guest Editor

In the face of escalating challenges brought about by global climate change, agricultural production systems are finding themselves under unprecedented environmental pressures. The key thematic areas covered by this issue include the physiological and ecological adaptations that crops undergo in response to changing climates, strategies for enhancing genetic resilience in crop varieties, the optimization of agricultural management systems to cope with climate variability, advancements in climate modeling techniques relevant to agriculture, and the development of risk assessment methodologies to predict and mitigate climate-related risks in farming. We warmly invite submissions of original research articles that present novel findings, comprehensive reviews that synthesize existing knowledge, case studies that offer real-world insights, and data-driven modeling studies that provide quantitative predictions. Our goal is to build a robust scientific basis and develop practical technological frameworks that are essential for fostering climate-resilient agricultural systems.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

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