



Climate Change Impacts, Mitigation and Adaptation in Croplands

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Message from the Guest Editors

Changes in climate will have significant impacts on agriculture. climate change will affect the delivery of non-provisioning ecosystem services from agricultural lands (e.g., biodiversity, pollination, nutrient cycling, etc.), with concomitant impacts on environmental quality across multiple spatial scales. It is essential for agriculture to mitigate its contributions to climate change and effectively adapt to its consequences, while concurrently meeting needs of increased production and improved environmental quality. This special issue welcomes articles addressing relevant topics at the nexus of climate change and crop production. Articles highlighting climate mitigation and adaptation with the delivery of provisioning and non-provisioning ecosystem services are encouraged. Furthermore, we welcome articles documenting novel approaches to monitor, model, and upscale environmental change under changing climate for cropping systems across the world. We also welcome contributions describing the development of new and effective technologies that help crop producers mitigate and adapt to climate change.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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