



Impacts of Climate Change and Agro-meteorological Disasters on Crops

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Message from the Guest Editors

Dear Colleagues,

Against the background of climate change, extreme climate events such as high temperature and drought have a great impact on agricultural production. Climate change demonstrates a vital spatial variability in the world due to the differences in geographical location and topography and its impact on crop production presents a huge difference in different parts of the world. Notably, the effects of environmental stress on crops have multifarious manifestation as the variations in the physiological and morphological characteristics. Although a lot of researches related to the above issues have been carried out, there are still many mechanisms and rules that are not clearly revealed and need to be further investigated.

Topics of interest for the Special Issue include but are not limited to:

- The long-term impacts of climate change and agro-meteorological disasters on crop growth and agricultural production in the past and future;
- The characteristics and mechanisms of the responses of physiological, morphological and phenological characteristics of crop to extreme environmental conditions;
- The simulation of environmental responses of crop based on crop growth.





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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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