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Plant Adaptation to Global Climate Change

Guest Editor:

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Deadline for manuscript submissions:
closed (21 August 2020)

Message from the Guest Editor

Dear Colleagues,

Crop production is susceptible to climate variability, and climate change related with high temperature, elevated CO_2, varying patterns of rainfall, and other environmental factors are having an adverse impact on global crop production and food security. The influence of climate change on plants may be from cellular to the molecular level. Subsequently, the existing literature on the plant's response to different environmental stresses is diverse. In view of the future impacts of climate change, understanding the response of plants becomes critical in developing strategies to cope with the threats to plant growth and development.

This Special Issue will focus in particular on the current research of effects of air pollutants, UV-B, salinity, heat/freeze, drought, and other environmental factors on plants. We encourage the submission of the manuscripts that include plant–environment interaction and particularly welcome those studies that aim to integrate morphological, physiological, biochemical, and molecular approaches of plant response to climate change.

Dr. Amit Kumar Mishra
Guest Editor

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Editor-in-Chief

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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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