Special Issue

Water Management and Crop Production in the Face of Climate Change

Message from the Guest Editors

Drought and flooding are major challenges for agriculture, so it is important to properly manage water under changing climate. Ubiquitous rainfall deficits require the appropriate crop irrigation systems. Also, farmers are increasingly obliged to use treatments that help crops adapt to climate change and various stresses. Finally, meteorological changes make it necessary to determine the capacity of river channels. Overall, we encourage the submission of review articles on the broad topic of water and crop management, including but are not limited to:

- irrigation system management;
- the application of biostimulants and fertilisers to crops for adaptation to climate change;
- studies on river hydrodynamics and water availability for agriculture;
- innovative agro-technical crop treatments and techniques;
- methods for increasing water retention in the catchment area;
- water needs of plants;
- analysis of changes of meteorological conditions and their impact on water resources and agriculture;
- the occurrence of extreme weather events (droughts, floods) and solutions to mitigate their effects.

Guest Editors

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Dr. Mateusz Hämmerling

Deadline for manuscript submissions

closed (20 January 2023)

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About the Journal

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!

Editor-in-Chief

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