

## Special Issue

# Simulation of Crop System Response and Adaptation to Climate Change

### Message from the Guest Editors

The motivation behind this *Agriculture* Special Issue is to simulate crop system responses to climate change in order to identify key strategies for mitigation and adaptation. Therefore, we expect to obtain, from experts in the field, explanations as to how to apply modeling approaches (e.g., process-based models, general crop response algorithms, machine learning techniques, and data assimilation technologies) to predicting crop system responses (e.g., crop development, growth, yield, grain quality, soil carbon, and greenhouse emissions) to climate change (particularly extreme climates, e.g., excessive rainfall, extreme heat, extreme cold, wildfires, droughts, storms, and floods), as well as explore the strategies for mitigation and adaptation, in this Special Issue. We believe that this Special Issue will be a unique opportunity to highlight one of the main themes of next-generation crop modeling, the new understanding of crop system responses to climate change, and key challenges in adapting to climate change, enabling agricultural decision making under climate change.

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### Guest Editors

Dr. Liujun Xiao

Prof. Dr. Chuang Zhao

Dr. Guocheng Wang

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### Deadline for manuscript submissions

closed (25 February 2024)



## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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### Editor-in-Chief

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