

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.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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