



Progress in Plant Bioclimatic Modelling under Global Climate Change

Guest Editor:

Dr. Bin Wang

Adjunct Associate Professor, New South Wales Department of Primary Industries Wagga Wagga Agricultural Institute, Gulbali Research Institute Charles Sturt University, Wagga Wagga, NSW 2650, Australia

Deadline for manuscript submissions:
closed (12 August 2022)

Message from the Guest Editor

Dear Colleagues,

Climate change has put great pressure on food security around the world. This is because climate change, including varied rainfall patterns, coupled with climate warming, increased frequency and intensity of extreme weather–climate events (e.g. heat stress), can adversely affect plant production in many parts of the world. Developing robust plant bioclimatic models is critical in quantifying the impacts of climate change on plant productivity. Such models can help farmers, research scientists and policymakers to develop efficient agronomic strategies that maintain and increase plant productivity under climate change. With this Special Issue of *Agronomy*, we seek integrative studies that shed light on new, developed or improved models to better understand the interaction of plant growth and environmental conditions under climate change, as well as reviews that offer original perspectives on different kinds of models developed in response to climate change in agricultural systems. Articles highlighting the use of plant bioclimatic modelling to mitigate climate change with different agronomic options are also welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi