Special Issue

Adaptive Adjustment of Crop Management Practices Under Global Warming

Message from the Guest Editors

Global climate change is leading to increasing challenges in agricultural production, and thus poses a serious threat to global food security. Extreme weather events such as heat waves, floods and prolonged droughts are escalating in frequency. Shifts in natural factors such as radiation, temperature, precipitation and humidity contribute to changes in plant growth, yield and quality.

Identifying crop species and cultivars that are suitable for new production environments is key to increasing crop expansion, adaptation and overall productivity. At the same time, understanding the mechanisms for maintaining productivity and/or increasing yields under stressful conditions helps determine the suitability of crops in new environments. Cultivation risks can be attempted to be reduced by breeding and selecting more resistant/tolerant cultivars that develop and yield better under less favourable environmental conditions, optimizing sowing dates as well as water and nutrient use by plants, modern agrotechnology and using innovative crop yield enhancers.

We invite the publication of articles that deal broadly with crop adaptation to climate change and related phenomena.

Guest Editors

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