Special Issue

Crop Adaptation to Elevated CO_2 and Temperature

Message from the Guest Editor

The rising concentration of CO2 in the atmosphere is resulting in global warming. Higher CO2 and temperatures can have large and often opposing effects on crop yield. Earlier expectations that elevated CO2 would protect plants from high temperature stress seem to be mostly unfulfilled. In order to feed the increasing global human population, we need to identify crop germplasm better adapted to these global changes. Because of the many interactions between CO2 and high temperature on plant responses, independent study of plant response or adaptation to CO2 or to high temperature is likely less productive than examining adaptation to the combination of these two factors. However, such research poses technological challenges, as well as biological.

Guest Editor

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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