



Climate Resilient Sustainable Agricultural Production Systems

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Message from the Guest Editor

Dear Colleagues,

Climate change an important environmental issue is a major concern for the agricultural production systems. It is affecting agriculture in a complex wide spectrum through the soil-crop-atmosphere continuum as well as livestock production, lives and livelihoods of producers and consumers. The chief elements of climate change include rising temperature, modified frequency of extreme events, and elevated CO₂. Crop production is one of the sensitive sectors to climate variability and change. Climate change has affected crop growth, development and yield over the past few decades across the globe directly or indirectly. Direct effects are due to increased CO₂ fertilization which leads to higher photosynthetic rate and water use efficiency. Indirect effects include crop responses to variability in temperature or rainfall. It is imperative to design strategies which could minimize the impacts of climate change on agricultural production systems and bring sustainability in the system by considering water-food-energy nexus.





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