Special Issue

Dryland Agriculture and Farming Techniques: From Soil to Plant Nutrient

Message from the Guest Editor

Dryland farming plays an esenssial role in agricultural production and global food supply security. However, shortage of water resources, low precipitation and asynchrony between crop growth and distribution limit crop production. Simultaneously, dryland agriculture is facing a great challenge of a growing world population and increasing extreme weather events in recent years. Modern dryland agriculture must respond to the new challenge to meet the agricultural Sustainable Development Goals. This Special Issue's topics include, but are not limited to, the following: (i) Optimized fertilization practices, cropping systems and agronomic strategies for improving the limited water resource use efficiency and crop productivity; (ii) Evaluation of the effects of fertilizer management on the soil nutrient cycle and water cycle; (iii) Modeling of soil water and nutrient cycling and availability in dryland farming; (iv) Innovation in dryland farming technologies, such as climate-smart agriculture (CSA) and precision agriculture.

Guest Editor

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