



Sustainable Use of Water and Nutrients in Arid and Semi-arid Regions

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Message from the Guest Editors

A sustainable use of water and nutrients is key to meeting agricultural production in a context of climate change. With water shortage, what strategies are needed to improve nutrients use efficiency? What are the best practices to ensure a sustainable use of nutrients and water, taking into account that mineral fertilizers represent a major input to crop production? What are the effects of highly variable rainfall events during specific stages of crop development, such as canopy development, flowering or fruit set? The morphological and physiological traits of a specific crop are genetically and environmentally modulated, but in arid and semi-arid regions, water availability and water quality are of paramount importance. These conditions require optimized irrigation practices and efficient nutrients application. Research data is welcome on the following subjects: (i) plant nutrition under water stress conditions; (ii) novel aspects of fertilization in arid and semi-arid regions; (iii) deficit irrigation and other water saving practices; (iv) crop physiology in the context of dry-land farming, (v) sustainable crops to cope with water scarcity and low nutritional demand.





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