

Special Issue

Physiological and Agronomic Responses of Plants Irrigated with Saline Reclaimed Water

Message from the Guest Editors

Climate change is influencing the availability of water resources worldwide, reducing renewable surface water and groundwater resources at an alarming rate in most arid and semiarid regions. It is estimated that by 2025, around 2 billion people will be affected by water scarcity with a potential impact on agricultural production. Reused reclaimed water (RW) is considered a non-expensive and reliable non-conventional source. This water usually contains essential nutrients, beneficial for crop growth and economy of the growers, but also salts and toxic ions which discharge into the environment and accumulate in soil and crops, with negative consequences for soils, plants, and underground water bodies. RW irrigation can cause the accumulation of salts in the crop root zone to concentrations that result in a damage to soil, plant physiology and yield. In this sense, the impacts of RW must be studied mainly at the levels of plant agrophysiology and ecosystem. This Special Issue of *Plants* is poised to address these questions. The issue focuses mainly on the physiological and agronomic responses of plants irrigated with saline reclaimed water and their impact on fruit and soil quality.

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Message from the Editor-in-Chief

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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