

CALL FOR PAPERS

The greatest water withdrawal is due to the agricultural sector. However, there have been decreases in water withdrawals over the past three decades due to population and industrial growth. The use of conventional waters is limited and the cost of virtual water is too high and not affordable for most developing countries. Therefore, reclaimed water, as a nonconventional water resource, can help provide for a proportion of irrigation water and reduce pressure on conventional water resources.

Although reclaimed water is commonly and successfully used in many countries (e.g., Israel, USA, and Australia), in the EU, water reuse faces numerous barriers. Among them, safety risks, economic concerns, and social acceptance can be currently defined as the main barriers.

It has been demonstrated that some fruit quality parameters increase on treatments irrigated with different reclaimed irrigation water qualities during the harvesting and after controlled atmosphere storage, both on fruit trees and on vegetables. Equally, many plants adapt to salt stress caused by salty reclaimed water and enhanced biosynthesis of secondary metabolites, such as soluble solids, sugars, organic acids, proteins, and amino acids. Therefore, irrigation with reclaimed water can greatly increase the nutritive quality and marketability of fruits and vegetables.

For that reason, the purpose of this special issue is to publish high-quality research articles as well as reviews that seek to address recent development on the improvement of fruit quality parameters with the creation of a comprehensive database, identifying information about the effects on fruit quality parameters on reclaimed irrigation water use on fruit trees and vegetables and improving the users perception and indirectly the increasing use of reclaimed water.

Potential topics include but are not limited to the following:

- ▶ Potential benefits on fruit quality to agricultural users
- ▶ Plant response in terms of yield and quality to irrigation waters of differing ion composition
- ▶ The implications of reclaimed water use for organic certification
- ▶ Fruit quality standards science-based
- ▶ Salinity effects on fruit quality parameters
- ▶ Changes on bioactive/functional compounds in the fruit quality
- ▶ Influence of the system soil-plant irrigated with reclaimed water into the fruit quality
- ▶ Quality and sensory perspective on fruits irrigated with reclaimed water
- ▶ Environmental factors affecting food quality
- ▶ Impact of present and proposed regulations on the quality of the food supply
- ▶ Influence on ethylene production and ripening
- ▶ Fruit quality under controlled atmosphere storage

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jfq/iriw/>.

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First Round of Reviews

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