



Reuse of Treated Wastewater in Irrigation: Exploring the Current Challenges and Opportunities through Life Cycle Thinking Tools

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Message from the Guest Editor

Water scarcity is threatening the sustainability of food production. Given the current trends and future climate change projections, agriculture will have to rely more on the use of non-conventional water and Treated Wastewater. Wastewater reuse in agriculture has certain benefits, by maintaining or increasing crop yields, providing water and nutrients for the cultivation of crops, and suppressing effluent discharges and the associated nutrient contributions to receiving waters. On the other hand, water reclamation can introduce more challenges from additional efforts in energy, chemicals, and infrastructure. Therefore, the global sustainability of the reuse of treated wastewater in irrigation has to be verified by looking through a systemic lens and taking into account upstream and downstream processes.

This Special Issue welcomes research on the application of life cycle thinking tools aimed at increasing the level of knowledge and stimulating debate about the “attractiveness” of treated wastewater as a resource in irrigation under a life cycle perspective.





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