Special Issue

Irrigation Technology and Water Management in Agriculture: Toward a Sustainable Future

Message from the Guest Editors

Agriculture is heavily reliant on water, requiring rational irrigation management to ensure quantity, quality, and high levels of yield within a sustainable agricultural ecosystem. The main scope of this Special Issue is to highlight the need for rational water management through research on related topics, such as aquifer recharge, groundwater levels, water quality, runoff, evapotranspiration, the infiltration rate, and soil physicochemical and hydraulic properties, etc. All the above are in direct interaction with the soil–water movement and have great impact on the irrigation dose, irrigation frequency, intensity etc., and therefore irrigation network design and water management. Improvements in agricultural water management and efficiency in water use can contribute to a sustainable future.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

Irrigation planning
Irrigation water management
Deficit irrigation
Evapotranspiration
Modeling of soil water movement
Soil hydraulic properties
Wastewater reuse
Remote sensing
Artificial intelligence in agriculture

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closed (29 April 2024)

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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