

## Special Issue

# The Use and Management of Agricultural Irrigation Systems and Technologies

### Message from the Guest Editors

Agricultural irrigation systems provide food to meet the growing demands of the global population. Irrigated agroecosystems under climate change face threats such as excessive runoff, soil erosion, salinization, water pollution, over-irrigation, and water shortages, among others. These challenges are mainly met using technology that provides instruments and methodologies to deal with major environmental challenges, saving water and increasing crop yield. Tailored management approaches of water resources for irrigation based on the application of agro-hydrological models and decision-support tools at different scales are effective approaches to maintaining reliable and flexible water allocation during periods of water shortage, preserving water for environmental requirements, and decreasing conflicts between water users. Innovative technologies and decision tools could provide secure solutions promoting actual and future resilient irrigation management in semi-arid and arid regions. This Special Issue offers an opportunity to gather studies and multidisciplinary approaches related to advanced technologies and innovative methodologies for irrigation management.

### Guest Editors

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### Deadline for manuscript submissions

closed (5 June 2023)



## Agriculture

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### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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