

Special Issue

Optimal Water Management and Sustainability in Irrigated Agriculture

Message from the Guest Editors

The contribution of irrigation is crucial in agriculture. Therefore, the sustainability of irrigated agriculture requires the efficient management of the available but limited water resources under the existing constraints. Water demand in irrigation is expected to increase in the near future, and it will be seriously impacted by climate change, specifically in arid and semi-arid areas. It is widely believed that an increase of the irrigation water use efficiency is the key to addressing water shortage and reducing environmental problems. In this context, robust and optimal approaches are used for improving irrigation water efficiency, energy saving, and crop productivity, and mitigating economic losses from water scarcity. This Special Issue calls for contributions on sustainable water management in irrigated agriculture, irrigation scheduling, crop allocation, crop production under full and deficit irrigation, and the optimal design of irrigation networks and on-farm irrigation systems. Studies and best practices on irrigation use efficiency, economic solutions, and policy measures for improving crop water productivity and environmental sustainability are also welcome.

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Deadline for manuscript submissions

closed (28 September 2022)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/95380

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