

Special Issue

Modernization and Optimization of Irrigation Systems

Message from the Guest Editors

Water is a fundamental natural resource for the economic and social development of any region. The production of food for the global population is a challenge to solve in coming years, especially bearing in mind the forecasted increase in population over the next 30 years. Under this scenario, irrigated agriculture plays a fundamental role. It is necessary to have modern and productive irrigations systems, where comprehensive and sustainable water management can be implemented. Technologies aimed at improving the efficiency of water use in irrigation are needed, given the context of climate change and low availability of water sources. We welcome novel research, reviews and opinion pieces covering all related topics including: increasing water use efficiency, analysis of distribution networks, optimization of irrigation subunits, application of hydraulic and energy optimization techniques, improvement of pumping systems, modernization of irrigation in areas of social interest, irrigation advisory services, application of renewable energies to irrigation systems and sustainable irrigation management.

Guest Editors

Prof. Dr. Jesús Montero Martínez

Regional Centre for Water Research, University of Castilla-La Mancha,
02001 Albacete, Spain

Prof. Dr. Angel Martínez Romero

Higher School of Industrial Engineering at Albacete and Regional
Centre for Water Research, University of Castilla-La Mancha, Campus
de Albacete, 02001 Albacete, Spain

Deadline for manuscript submissions

closed (30 June 2023)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/77575

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)