Special Issue

Innovative Water Management Strategies and Their Impact on Yield and Nutritional Quality of Crops

Message from the Guest Editors

The exploration of low-power sensors, thermal imaging, and hyperspectral imaging has opened new avenues for understanding soil moisture dynamics, plant health, and stress responses, marking a significant shift in how we manage agricultural resources. This issue focuses on the development and application of novel sensor technologies for soil and plant water status detection, the practical benefits of precision irrigation on crop yield and quality, and importantly, the reuse of water for irrigation. It emphasizes the impact of such practices on soil and plant quality, including considerations of microplastics, thereby offering a comprehensive view on modern irrigation practices and their environmental sustainability. We invite cutting-edge research that demonstrates advancements in irrigation technology and methods, including acoustic emission sensors for drought detection, gamma radiation for soil moisture monitoring, hyperspectral imaging for monitoring crop and soil properties, and the integration of national irrigation strategies and decision support systems (DSS).

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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