

Special Issue

Smart Water Management: Improving Crop Physiology, Resilience, and Productivity Under Limiting Climate Conditions

Message from the Guest Editors

Increasing climate instability has posed serious challenges to agriculture, especially regarding water availability and efficient use. In this context, smart water management emerges as an essential strategy to improve plant physiology, promote crop resilience, and sustain productivity even under adverse climate conditions. This Special Issue aims to publish manuscripts that address innovative water management practices and technologies that optimize water use in soil and plants, favoring physiological mechanisms such as water use efficiency, stomatal regulation, and resistance to water stress. The integration of knowledge of physiological responses, monitoring tools and precision irrigation systems is seen as a promising path towards more sustainable agriculture that is resilient to climate change.

Guest Editors

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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