

Special Issue

Ecophysiological and Agronomical Responses of Mediterranean Crops to Drought: Enhancing Soil–Water Management under Water Stress Conditions

Message from the Guest Editors

Under conditions of climate changes, the decrease in water availability, in parallel with the increase in crop evapotranspiration, makes it necessary to implement control and management tools. In this sense, it is important to study the behavior of crops under drought conditions by means of crop–water status, focusing attention on those processes involved in the gas exchange; photosynthesis rate; and those metabolic pathways related to the crop response to water stress conditions. Moreover, implementing new tools to assess the crop water status and monitoring the continuous soil–plant–atmosphere system, integrating information systems based on big-data and smart farming tools, will reinforce actual knowledge to offer an appropriate response to the challenges to achieving a higher water use efficiency in irrigated and rainfed systems. We especially welcome research articles regarding sustainable irrigation management (amount, rate, and intervals) for different crops and environments, deficit irrigation, water stress management, sensor-based irrigation management, ecophysiological responses, and productivity crops under drought stress.

Guest Editors

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Editor-in-Chief

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