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Use of Soil and Plant Sensors for Monitoring the Water and Nutritional Status of Crops

Guest Editors:

Dr. Carlos Campillo

Centre for Scientific and Technological Research of Extremadura (CICYTEX), Department of Horticulture, Finca La Orden, Regional Government of Extremadura, Highway A-V, Km 372, 06187 Guadajira, Badajoz, Spain

Prof. Dr. María del Hénar Prieto

Centre for Scientific and Technological Research of Extremadura (CICYTEX), Extremadura, Spain

Deadline for manuscript submissions:

closed (22 June 2022)

Message from the Guest Editors

This Special Issue focuses on research, use, integration, and development in “Use of Soil and Plant Sensors for Monitoring the Water and Nutritional Status of Crops” to optimize irrigation and fertilization management for agricultural and horticultural production.

Submissions on but not limited to the following topics are invited:

- (1) plant-based sensing for water and fertilization stress monitoring,
- (2) plant and soil moisture sensors for irrigation management,
- (3) monitoring UAV and satellite to precision fertilization and irrigation,
- (4) using sensors to automate fertilization and irrigation scheduling,
- (5) wireless sensor networks for fertilization and irrigation management,
- (6) sensors to estimate actual crop water and nutritional needs,
- (7) variable-rate fertilization and irrigation,
- (8) decision-support systems combined with sensors.

[Details of the Special Issue](#)



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Special Issue



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Dr. Jean-Luc PROBST

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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