



Optimising Soilless Culture Systems and Alternative Growing Media to Current Used Materials

Guest Editors:

Prof. Dr. Nazim S. Gruda

INRES—Institute of Crop Science and Resource Conservation, Division of Horticultural Sciences, University of Bonn, 53121 Bonn, Germany

Prof. Dr. Juan A. Fernández

Department of Agricultural Engineering, Technical University of Cartagena, Paseo Alfonso XIII, 48, 30203 Cartagena, Spain

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Message from the Guest Editors

This Special Issue will focus on optimising soilless culture systems and recent advances in the characterisation and utilisation of novel soilless substrate materials used in plant-production systems.

We welcome high-quality research publications and reviews, covering all related topics in soilless culture and substrate science. These include new promising substrate components; substrate characterisation and analytical techniques; the hydrology and physical properties of growing media; chemical and biological properties; substrate formulation and growth-medium engineering; reducing water and nutrient runoff; biological additives and microbial influences; plant-physiology specifics in such systems; root-medium properties; plant propagation; plant nutrition and chemistry; the advancement of technologies such as green roofs, vertical farming, and modern automated systems for nutrient and water supply, such as Artificial Intelligence and the Internet of Things; and other closely related research areas within soilless substrates and growing media.





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Editor-in-Chief

Prof. Dr. Luigi De Bellis

Department of Biological and Environmental Sciences and Technologies, Università del Salento, Centro Ecotekne, Via Provinciale Lecce Monteroni, 73100 Lecce, Italy

Message from the Editor-in-Chief

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Horticulturae Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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