

Special Issue

Benefits of Fertigation for Crop Yield and Quality

Message from the Guest Editor

This Special Issue aims to explore the agronomic, physiological, environmental, and economic benefits of fertigation across diverse cropping systems. We seek to highlight advancements in fertigation technologies, crop-specific strategies, and their impact on soil health, water use efficiency, nutrient uptake, and final product quality. This Special Issue will cover topics such as nutrient–water synchronization, smart fertigation systems using IoT and sensors, crop modeling under fertigation regimes, and fertigation's role in climate-resilient agriculture. Comparative studies between conventional fertilization and fertigation, and studies on their long-term implications on yield stability and soil fertility, are also encouraged. We invite original research articles, reviews, and case studies addressing innovative fertigation practices, nutrient dynamics, precision application techniques, and sustainability assessments. Contributions from diverse climatic zones and cropping systems are welcome. Manuscripts should provide novel insights that can inform best practices and policy development in sustainable crop management.

Guest Editor

Dr. Fernando Ferrari Putti

School of Sciences and Engineering, São Paulo State University (UNESP), Rua Domingos da Costa Lopes 780, Tupã 17602-496, SP, Brazil

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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About the Journal

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

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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