

Special Issue

Nutrient Cycle in Hydroponic Cultivation

Message from the Guest Editor

Hydroponic cultivation stands at the forefront of sustainable agricultural practices, offering a promising solution to the challenges of modern farming. This Special Issue is dedicated to showcasing the latest breakthroughs and in-depth analyses that are shaping the future of hydroponics, including the following topics:

1. Innovative Strategies for Nutrient Management: Exploring new methodologies for optimizing nutrient solutions that can lead to significant improvements in crop health and yield. (2) Closed-Loop Systems and Nutrient Recycling: Examining the integration of advanced closed-loop systems that promote the efficient reuse of nutrients, minimizing waste and environmental impact. (3) Nutrient Dynamics in Hydroponic Environments: Investigating the interplay between nutrient availability, uptake, and utilization in hydroponic systems and its direct correlation with crop growth and yield. (4) Advanced Technologies in Hydroponics: Highlighting the role of technology in precision agriculture, from sensor-based monitoring to automated control systems for nutrient delivery.

Guest Editor

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Editor-in-Chief

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