# **Topical Collection**

### Recent Advances in Hydroponic and Aquaponic Research

### Message from the Collection Editor

Aguaponics provides the opportunity to produce food in the most sustainable manner possible. It is possible to engineer an aquaponics system that captures all the nutrients contained in the fish feed by sizing the coupled hydroponic system with sufficient plants to assimilate all the nutrients that the fish have not assimilated in their growing process. Although hydroponics and aquaponics have been practiced for centuries, we are still discovering how plants function in an aquatic environment and how we can optimize their performance, particularly from an environment sustainability perspective-hence the need for this Special Edition. In this Topical Collection, we will collect current research papers on how to move the aguaponics (and hydroponics) industries into the future to provide nutritious diets to feed the additional 2 billion humans being added to our current population of 7.7 billion by 2050. We also need to understand how our current aquaponics systems are working.

### **Collection Editor**

Prof. Dr. Michael Timmons Biological and Environmental Engineering, Riley Robb Hall–111 Wing Drive, Cornell University, Ithaca, NY 14853, USA



## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.1 CiteScore 3.5



mdpi.com/si/80669

Horticulturae MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 horticulturae@mdpi.com

mdpi.com/journal/ horticulturae





## Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.1 CiteScore 3.5



horticulturae



## About the Journal

### Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

### 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

### Author Benefits

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

Journal Rank: JCR - Q1 (Horticulture) / CiteScore - Q2 (Horticulture)