Special Issue

Recent Advances in the Ecophysiology, Biochemistry, and Stress Adaptation of Succulent Plants

Message from the Guest Editors

In the context of increasing habitat heterogeneity, soil degradation, and climate change, expanding our knowledge of succulent species has become more important than ever. Understanding the physiological and biochemical mechanisms underlying plant responses to abiotic and biotic stressors is essential for explaining how these plants survive and reproduce under challenging conditions. These insights are fundamental to key life-cycle stages—including seed germination, seedling establishment, growth, reproduction, and survival—as well as to understanding patterns of abundance and geographic distribution. This Special Issue invites original research articles and comprehensive reviews highlighting recent advances in knowledge of the ecophysiological and biochemical traits of wild succulents and horticultural succulent plants. Contributions may address topics including, but not limited to, the following:

- Climate change;
- Ecology;
- Environmental heterogeneity;
- Functional ecology;
- Plant ecophysiology;
- Plant life cycle;
- Plant phytochemistry;
- Stress Tolerance.

Guest Editors

Dr. José Luis Aragón-Gastélum

Dr. Claudia González-Salvatierra

Dr. Joel Flores

Deadline for manuscript submissions

28 February 2026

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/247287

Horticulturae
Editorial Office
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 3.0
CiteScore 5.1

mdpi.com/journal/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 (DiSTeBA), Salento University, 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 - Q1 (Horticulture)

MDPI