



Plants

---

an Open Access Journal by MDPI

---

CiteScore: 7.6

Indexed in PubMed

Impact Factor: 4.1

Special Issue Reprint

## Mitigation Strategies and Tolerance of Plants to Abiotic Stresses

**Edited by: Geovani Soares de Lima, Lauriane Almeida dos Anjos Soares and Francisco**

**Vanies Da Silva Sá**

Worldwide, areas characterized as arid or semi-arid are subject to conditions of qualitative and quantitative scarcity of water sources, which stands out as one of the limiting factors for the production of various crops. Water stress caused by lack of water and the occurrence of water sources with high salt concentrations imposes a series of alterations in growth, physiology, biochemical and molecular indicators, and the post-harvest production and quality of various crops. Therefore, it is of paramount importance to identify management strategies that mitigate abiotic stresses, aiming to facilitate crop sustainability and meet the growing needs of food production. This Special Issue Reprint, "Plant Mitigation and Tolerance Strategies to Abiotic Stresses – 2nd Edition", presents results of original research from 19 scientific articles and/or literature reviews, encompassing scientific advances in various cultivation conditions. Among the strategies published in this Special Issue, the following stand out: the use of zinc oxide nanoparticles (ZnONPs) in alleviating saline stress in corn; irrigation strategies and ascorbic acid in guava trees; continuous water withdrawal and optimized water management in greenhouses for wheat varieties; hydrogen peroxide and vitexin in signaling and defense responses of *Passiflora incarnata*; and biochar nanoparticles in reducing ciprofloxacin accumulation in rice seedlings.



<https://www.mdpi.com/books/reprint/12330>