

Special Issue

Advances in Plant Physiology and Their Applications

Message from the Guest Editors

In recent years, the problem of physiological processes in plants related to the action of stress factors (biotic and abiotic) has become particularly important. Abiotic stresses caused by climate change and global warming have a negative impact on plant growth and development. There are many functional disorders at the level of cell membranes and in the hormonal balance of the cell. Visual symptoms of nutrient deficiency, determination of plant growth, assessment of photosynthesis and analysis of tissue nutritional status are highly justified in diagnosing nutrient disorders and optimizing crop management strategies. Therefore, research aimed at showing new trends from the point of view of plant physiology, metabolism and genetic regulation is very important. This Special Issue aims to collect and present research results in the field of advances in plant physiology, especially in the response of plants to environmental stresses. We welcome submissions containing cutting-edge knowledge on this topic.

Guest Editors

Dr. Renata Tobiasz-Salach

Dr. Dagmara Migut

Dr. Tomasz Piechowiak

Deadline for manuscript submissions

closed (30 July 2025)



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

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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