

Special Issue

Crop Production and Regulation under Environmental Stress

Message from the Guest Editors

There are various environmental stresses that pose a severe threat to the agriculture sector and sustainable agricultural production worldwide. These stresses are divided into two main groups, namely biotic stress and abiotic stress. These different stresses, individually or in combinations, cause many physiological, morphological, anatomical, and biochemical changes, which ultimately impact the productivity and quality of the field and horticultural crops. Alterations in agricultural practices, integration between different agronomic practices, adoption of site-specific agronomic practices, development of stress-tolerance genotypes, improvement of land husbandry practices, fertilizer technology, adaptive microbial technology, exogenous application of key natural primary and secondary metabolites, seed priming, use of suitable rootstocks and transgenic plants, and application of precision agriculture approaches for addressing the negative impacts of environmental stresses on growth and production of crops in a fast and non-destructive manner are proposed strategies that can potentially regulate crop production under environmental stresses.

Guest Editors

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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.

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