Special Issue

Recent Advances in Halophytes Plants

Message from the Guest Editors

Halophytes are plants that can be developed and reproduce with repeated exposure to seawater or salinized lands. In the last 20 years much has been published in order to understand the ecophysiological mechanisms of these plants.

Moreover, improved knowledge concerning halophytes remains of crucial interest in many subjects of the applied sciences so that the potential of these plants can be explored in an sustainable manner, as: (1) consolidation of the agroecological practices concerning new solutions for degraded lands; (2) the use of the halophytes and its associated rhizosphere microbiomes as “model” plants for the adaptation of the non-halophytes species crops in face of the increasing of salinized soils; (3) the unexplored metabolome produced by halophytes and its economic potential in food and medicine; (4) biomass residues of halophytes for production of bioenergy.

Thus, this Special Issue is devoted to the many potential applications of halophytes in the scope of the applied sciences, so the combined approaches between plants and other complementary research areas are welcome, such as phytochemistry, microbiology, among others.

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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.

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