

Special Issue

Extremophiles as a Green Perspective of the Future-Functional Properties, Fermentation Processes, Applications

Message from the Guest Editor

Extreme ecosystems are a significant part of our planet. The microorganisms that inhabit these habitats are of scientific interest, both because of the adaptation mechanisms they have developed to survive and because of the properties of their secondary metabolites, which hold use in various sectors of industry. The unique qualities of the products of this origin present successful substitutes for their chemical counterparts, which in a large percentage of cases are toxic and have a negative effect on human health and the environment. In this regard, fermentation processes in laboratory, semi-industrial, and industrial conditions play an essential role in the successful implementation of the relevant bioactive molecules. The strains, conditions, cultivation media, and the appropriate technical solution as a whole are an inseparable sequence of steps leading to the implementation of cost-effective processes for obtaining products of organic origin.

Guest Editor

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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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