



Recent Advances in Microalgae Biorefinery Processes

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Message from the Guest Editors

Microalgae are a very promising biomass source whose applications go beyond the traditional direct use of a few species approved for food. On the contrary, their complex biochemical composition has recently allowed the development of numerous processes and the search for multiple applications for very diverse fields such as the production of biofuels, the development of new materials, the extraction of active principles for the pharmaceutical, nutraceutical, or food industry, as well as the transformation of their components into chemicals of industrial interest.

Therefore, it is necessary to consider the integral use of microalgae within a biorefinery scheme, in which the processes of cultivation and harvesting of biomass are integrated with physical, chemical, and biological extraction and transformation processes, so that the By-products of one process serve as raw material for others, allowing to reduce or, ideally, eliminate waste generation, reaching a state of sustainable and economically profitable biorefinery.

This special issue aims to show the advances in the development of processes specially designed to be integrated into the scheme of a microalgae biorefinery.





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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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