Special Issue

New Insight in Microalgae Cultivation and Downstream Processes: Route toward Sustainable and Cost-Effective Production

Message from the Guest Editor

Microalgae and cyanobacteria represent high taxonomic diversity, making them very attractive to produce valuable and diverse biomolecules (such as pigments, proteins, enzymes, biofuels, polyunsaturated fatty acids, and hydrocolloids). Research on microalgae has been abundantly published and patented in recent years, but the development and commercialization of these metabolites is still new and only niche markets are currently available for microalgae products. Much effort has been made by research groups and companies to improve these processes, which currently limit microalgae compound applications to the field of high value products. Some studies have been focused on the increase of biomass and bioproducts productivities (new culture system designs, culture strategies, selection of strains, etc.), the use of wastewater to reduce medium costs, and downstream processes (harvesting, fractionation, biorefinery, etc.), in order to achieve more sustainable and cost-effective production of biomass and bioproducts.

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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