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Novel Trends in Microalgal Bioprocess and Its Biochemical Conversion into Value-Added Products and Fuels

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Message from the Guest Editors

Dear Colleagues,

This Special Issue addressess various topics, including the isolation and characterization of novel microalgal strains, cultivation, biomass/product isolation, purification, and process optimization.

The scope of this Special Issue includes, but is not limited to, the following:

- Optimization of growth conditions, composition of growth media and cultivation strategies for improved biomass production and/or product synthesis (e.g., lipids as feedstocks for biodiesel production);
- Conversion of microalgal biomass to biofuels;
- Valorization of microalgal biomass as a potential feedstock for the production of biofuels and valueadded products in biorefinery;
- Microalgae biorefinery for the production of biofuels and value-added products;
- Downstream processing of microalgal biomass: harvesting, dewatering/drying, cell disruption, extraction;
- Modelling and optimization of microalgal biofuel production;
- Life cycle assessment and techno-economic analysis of microalgal biorefinery.











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Message from the Editor-in-Chief

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