Special Issue

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

Message from the Guest Editors

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 value-added 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

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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