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Integrated Microalgae Industry for Biofuel and Food Ingredients Production

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Message from the Guest Editors

Dear Colleagues,

Microalgal biomass contains carbohydrates, proteins, lipids, pigments, vitamins, polyphenols and minerals. Lipids are employed in biodiesel production, while carbohydrates and proteins are food and feed supplements. The integrated microalgal industry aims to establish a sustainable platform for valorizing biodiesel production and extracting multiple food products from microalgae. For instance, microalgae represent an alternative protein source with superior nutritional qualities compared to traditional plant proteins and offer relevant environmental and economic benefits. Therefore, optimizing the extraction of microalgal components and assessing their characteristics and potential food applications are crucial. This Special Issue focuses on studies concerning the recovery, characterization and application of microalgal components in food products. It is expected that this research will contribute to achieving competitive and scalable microalgal industrial processes.

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Special Issue



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