Special Issue

Algae Biotechnology for Biofuel Production and Bioremediation

Message from the Guest Editor

Micro- and macroalgae potentially have the ability to produce biofuels, food supplements, feed and fertilizer. These applications are directly or indirectly derived from photosynthesis, which utilizes CO2and could contribute to the realization of zero emissions. In addition to global warming, environmental pollution is a challenge that transcends national borders. In addition to microorganisms, algae have also been studied for bioremediation. From a long-term and sustainability perspective, photosynthetic organisms have the potential to outperform heterotrophic microbes. The further development of technological applications with algae is necessary to evaluate the potential of algal bioremediation. This Special Issue will focus on algal applications, particularly those in the field of biofuels and environmental remediation technologies. Nondestructive techniques to assess algal quality, culture techniques to obtain sufficient quantities of algae, and collection techniques to recover algae or their products at low cost would also aid in achieving the above applications.

Guest Editor

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Editor-in-Chief

Dr. Badal C. Saha Retired, National Center for Agricultural Utilization Research, USDA-ARS, Peoria, IL, USA

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