

Special Issue

Economically and Environmentally Sustainable Algal Production, Harvesting and CO₂ Sequestration

Message from the Guest Editors

Algae, due to its fast growth; independence on arable land; highly efficient utilization of nutrient resources; and richness in proteins, lipids, polysaccharides, and high-value products, has the potential to improve global sustainability and to contribute to global energy and food security. We invite innovative ideas and efforts related to the reduction of overall algal biomass production costs and research related to its negative environmental impacts. In this Special Issue, original research articles and reviews are welcome. Research areas to be considered include (but are not limited to) the following:

- Advanced algal strain screening;
- Molecular engineering in algal strain modification;
- Phototrophic cultivation techniques and advances;
- Heterotrophic cultivation and advances;
- Cultivation system design;
- Algal harvesting;
- Water and nutrient recycling and management;
- AI in algal biotechnology
- Metabolic analysis of algae to support biomass and bioproduct harvesting

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)



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