



Algae in the Bioeconomy

Description

Algae play an important ecological role as oxygen producers and carbon sequesters and are the food base for all aquatic life. Algae are economically important as a source of crude oil, food and feed, and pharmaceutical and industrial products. High-value and sustainable products from algae are already economically viable and can be a fundamental driver for fuel production.



ALGAE IN THE BIOECONOMY

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Algae in the Bioeconomy provides a detailed overview of the chemical composition of algae and shows that an integrated biorefinery approach is necessary for large-scale algae production and conversion, where multiple products are produced. This book serves as a unique compendium of knowledge covering the essential features of algae and their applications.

- Discusses the structural chemistry and biology of micro- and macroalgal components
- Describes classification, occurrence, conversion, and production of micro- and macroalgae
- Offers strategies for optimal use of micro- and macroalgae in the bioeconomy, including regional strategies in the EU, US, China, India, Malaysia, Norway, and Chile
- Features forewords from international experts offering both a scientific and an economic/strategic viewpoint
- This book is intended for an interdisciplinary audience in chemical engineering, biotechnology, and environmental science and engineering, promoting research, development, and application of algae as a sustainable resource.

Category

1. News