

# Algal Biofuels: Recent Advances and Future Prospects - 466 pages - 9783319510101 - Sanjay Kumar Gupta, Anushree Malik, Faizal Bux - 2017 - Springer, 2017

Algal Biofuel: Recent Advances Abida Taskeen Eurospan 9781773611716 : This book focuses on the importance of Algae biofuels. It highlights the various tools and technique that are used in the. The book is divided into eight chapters which deal with the Algal biofuel source, extraction process, and their uses in the market. Algae have been used commercially for decades, but not for the production of biofuels. Several factors are driving the search for renewed fuel. The consortium of oil depletion, desired dependable energy, the need for carbon neutral renewable fuels can be produced without comprising on the environmental health. The first chapter of the book provides a comprehensive introduction of the algal biofuels. Recent Advances in Production of Biofuel and Commodity Chemicals from Algal Biomass. Pages 393-419. Quereshi, Shireen (et al.) Preview Buy Chapter 24,95 â¬. Challenges and Opportunities in Commercialization of Algal Biofuels. Pages 421-450. Kumar, Dipesh (et al.) Algal Biofuels. Book Subtitle. Recent Advances and Future Prospects. Editors. Sanjay Kumar Gupta. Finally, some recent report on algal biomass pretreatment resulting in improved biofuel yield, are discussed to cover the current and future prospects of the algal based biofuels. Read more. Article. One of the crucial steps in generating biofuel from algae is the separation and recovery of lipids from algal biomass. These lipids are eventually converted into liquid biofuel after processing and refining. This chapter presents an overview of extraction techniques and some of the challenges in applying these techniques to industrial-scale algal biofuel production. Lipids are well-encased inside [Show full abstract] algal cell walls.