



## Algal Biorefineries: Volume 1: Cultivation of Cells and Products

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This book reviews efforts to produce chemicals and fuels from forest and plant products, agricultural residues and more. Algae can potentially capture solar energy and atmospheric CO<sub>2</sub>; the book details needed research and legislative initiatives.

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## **Editorial Review**

From the Back Cover

Over the past century, the majority of chemical and energy needs of our industrial society has originated from fossilized carbon sources (coal, crude oil, natural gas). Increasingly, there is a realization that utilization of the fossilized carbon sources has adverse environmental consequences in the form of increasing concentration of greenhouse gases. We are also becoming aware of the limited nature of these resources. As a result, considerable efforts are being made to produce chemicals and fuels from renewable resources such as forest products, agricultural residues and plant products. All of these systems capture solar energy and atmospheric carbon dioxide as a part of the natural carbon cycle. Serious research efforts are also underway, targeting cultivation of photosynthetic autotrophic microbes for the production of biomass and lipids. In this category, algae appears to offer the most potential for capturing solar energy and atmospheric carbon dioxide and delivering sufficient quantities of biomass/lipids that can offset the fossilized carbon utilization in a meaningful manner without impacting food output adversely. However, several advances, both technologically as well as politically, are needed before we can realize its full potential. It is also clear that a biorefinery approach must be undertaken in order to harvest renewable energy and chemicals from algae economically.

This edited, multi-authored volume on Algal Biorefineries will document new advances involving algae-based technology.

## **Users Review**

**From reader reviews:**

**Susan Tokarz:**

Spent a free the perfect time to be fun activity to perform! A lot of people spent their down time with their family, or their friends. Usually they accomplishing activity like watching television, likely to beach, or picnic from the park. They actually doing same every week. Do you feel it? Do you want to something different to fill your free time/ holiday? Could be reading a book is usually option to fill your free time/ holiday. The first thing that you will ask may be what kinds of book that you should read. If you want to try look for book, may be the publication untitled Algal Biorefineries: Volume 1: Cultivation of Cells and Products can be excellent book to read. May be it could be best activity to you.

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