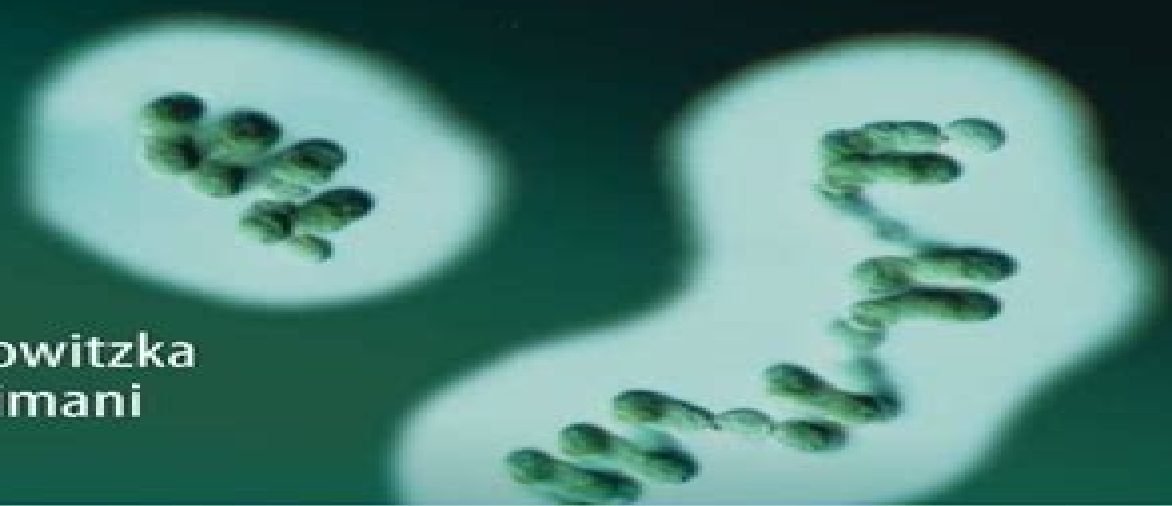


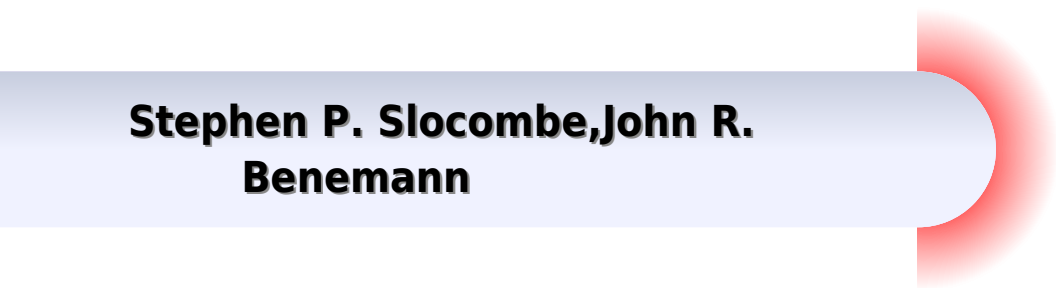


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Editors

Algae for Biofuels and Energy

Algae For Biofuels And Energy Developments In Applied Phycology

**Stephen P. Slocombe, John R.
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Algae For Biofuels And Energy Developments In Applied Phycology:

Algae for Biofuels and Energy (Developments in Applied Phycology). Navid R. Moheimani Michael A. Borowitzka, Algae for Biofuels and Energy Michael A. Borowitzka, Navid R. Moheimani, 2012-12-11 Microalgae are one of the most studied potential sources of biofuels and bioenergy This book covers the key steps in the production of renewable biofuels from microalgae strain selection culture systems inorganic carbon utilisation lipid metabolism and quality hydrogen production genetic engineering biomass harvesting extraction Greenhouse gas and techno economic modelling are reviewed as is the 100 year history of microalgae as sources of biofuels and of commercial scale microalgae culture A summary of relevant basic standard methods used in the study of microalgae culture is provided The book is intended for the expert and those starting work in the field

Phycobiliproteins: Recent Developments and Future Applications Vinod K. Kannaujiya, Shanthi Sundaram, Rajeshwar P. Sinha, 2017-12-22 Phycobiliproteins are water soluble brilliantly colored accessory light harvesting macromolecules organized in a supramolecular complexes on photosynthetic apparatus in cyanobacteria red algae and cryptomonads The objective of this book is to provide state of the art knowledge and highlight the recent developments and future biotechnological and biomedical applications of phycobiliproteins This book will be highly useful for students researchers professionals and experts in the field of Life Sciences and Biomedical Sciences as well as industries for potential applications of phycobiliproteins

Algal Biofuels Leonel Pereira, 2017-07-28 Algae presents a viable biofuel alternative because the production of algae for fuel unlike other agro based biofuels does not compete with food production This book covers algae based biofuel options and discusses the design and economic viability of algal bioenergy co production concepts

Microalgal Production for Biomass and High-Value Products Stephen P. Slocumbe, John R. Benemann, 2017-12-19 Microalgae are a particularly interesting source of products that range from currently marketed human nutritionals and food ingredients to potential sources of biofuels and animal feeds Rapid advances in technology and commercial development are taking place worldwide Importantly algal cultivation does not compete with agriculture for land water and in some cases fertilizer resources Microalgal Production for Biomass and High Value Products covers the field from a variety of perspectives with 14 chapters contributed by recognized academic experts and industrial practitioners The book presents the latest technologies and innovations in algal biomass production from cultivation in open ponds and photobioreactors to strain selection synthetic biology pest control harvesting and processing It explores novel algal products and addresses key issues including markets supply chains business strategies legal issues current products and future prospects This book brings together the latest advances of interest to those already working in the field while providing an introduction to those beginning to learn about the promise of microalgae as a sustainable source of both specialty and commodity products It gives stimulating overviews from many different perspectives that describe how laboratory and applied research are creating advances in commercial microalgae production It also addresses the still many

open questions and challenges in this field Microalgae as a Source of Bioenergy: Products, Processes and Economics José Carlos Magalhães Pires, 2017-09-27 Microalgae could play an important role in the achievement of sustainability goals related to the generation of renewable energy and greenhouse gas GHG emissions These photosynthetic microorganisms are able to capture CO₂ and therefore can be used to produce biofuels such as ethanol methane and green diesel Other factors such as their high growth rate ability to use wastewater as a culture medium and the ability to grow on non arable land makes them a potentially economical source of biofuel production on a large scale This monograph introduces the reader to the basic and applied science of microalgal biofuel production Chapters in the volume give information about bioethanol and biogas production from microalgal sources the fermentation process optimization of culture parameters and industrial applications of biomass projects The book is a useful reference for biotechnology and environmental science graduates and professionals interested in biofuel production **Advances in Microbial Physiology** , 2023-03-20 Advances in Microbial Physiology Volume 82 in this serial that highlights new advances in the field presents interesting chapters on a variety of topics including Protein secretion via the Type I secretion system Purine utilization by enterobacteria Microbiology of Algae Growth of enteric bacteria in the intestine on C4DCs Governance of C4DC transporters in metabolic adaptation and genetic control Biological functions of bacterial lysophospholipids and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Microbial Physiology series

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Algae and Aquatic Macrophytes in Cities Vimal Chandra Pandey, 2022-07-27 Algae and Aquatic Macrophytes in Cities Bioremediation Biomass Biofuels and Bioproducts introduces the concept of using the natural ability of plants such as algae and aquatic macrophytes to remediate pollutants from water The book provides scientists with a green economical and successful option when tackling rising water pollution The book's chapters cover a range of areas including bioremediation biomass biofuels and bioproducts during the remediation of polluted water systems It draws together research from eminent scientists from across the globe and includes case studies to help researchers students scientists stakeholders policymakers and environmentalists understand and perform their research with greater ease Presents multiple case studies from global perspectives Focuses on Bioremediation Biomass Biofuels and Bioproducts for water pollution a new approach Provides basic knowledge on how to design grow and use algae and aquatic macrophytes

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