

Microalgae Biotechnology And Microbiology Cambridge Studies In

Chemistry and Chemical Technologies in Waste Valorization Carol Sze Ki Lin 2018-08-13 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field./div Chapters "Sonocatalysis: A Potential Sustainable Pathway for the Valorization of Lignocellulosic Biomass and Derivatives", "Valorisation of Biowastes for the Production of Green Materials Using Chemical Methods" and "Green and Sustainable Separation of Natural Products from Agro-Industrial Waste: Challenges, Potentialities, and Perspectives on Emerging Approaches" are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

MICROALGAE 2015

Proteins: Sustainable Source, Processing and Applications Charis M. Galanakis 2019-05-30 Proteins: Sustainable Source, Processing and Applications addresses sustainable proteins, with an emphasis on proteins of animal origin, plant-based and insect proteins, microalgal single cell proteins, extraction, production, the stability and bioengineering of proteins, food applications (e.g. encapsulation, films and coatings), consumer behavior and sustainable consumption. Written in a scientific manner to meet the needs of chemists, food scientists, technologists, new product developers and academics, this book addresses the health effects and properties of proteins, highlights sustainable sources, processes and consumption models, and analyzes the potentiality of already commercialized processes and products. This book is an integral resource that supports the current applications of proteins in the food industry, along with those that are currently under development. - Supports the current applications of proteins in the food industry, along with those that are under development - Connects the properties and health effects of proteins with sustainable sources, recovery procedures, stability and encapsulation - Explores industrial applications that are affected by aforementioned aspects

*Physiological Study of Polyunsaturated Fatty Acid Production and the Role of Delta-6 Desaturase in the Marine Microalga *Glossomastix Chrysoplata** Tracy Yee-Hua Hsiao 2004

Forthcoming Books Rose Arny 1994-04

New Scientist and Science Journal 1994

Algal Culturing Techniques Robert A. Andersen 2005-01-21 A comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae.

Biofuel Co-products as Livestock Feed Harinder P. S. Makkar 2012 This publication covers a wide array of co-products.

Archiv für Hydrobiologie 1997

Offshore Membrane Enclosures for Growing Algae (OMEGA) Jonathan Trent 2012

Application of Microalgae in Wastewater Treatment Sanjay Kumar Gupta 2019-05-23 This two-volume work presents comprehensive, accurate information on the present status and contemporary development in phycoremediation of various types of domestic and industrial wastewaters. The volume covers a mechanistic understanding of microalgae based treatment of wastewaters, including current challenges in the treatment of various organic and inorganic pollutants, and future opportunities of bioremediation of

wastewater and industrial effluents on an algal platform. The editors compile the work of authors from around the globe, providing insight on key issues and state-of-the-art developments in algal bioremediation that is missing from the currently available body of literature. The volume hopes to serve as a much needed resource for professors, researchers and scientists interested in microalgae applications for wastewater treatment. Volume 2 addresses the various biorefinery aspects and applications of algal-based wastewater treatment in industrial and domestic contexts. The analyses are approached from multiple perspectives, including biotechnology, commercial, economic, and sustainability. The authors discuss the potential of microalgae for integrated biomass production utilizing various resources to treat wastewaters, and include evaluations of the economical and commercialization potential for such processes.

Marine Biology Melanie N. Johansen 2012

Algae for Biofuels and Energy Michael A. Borowitzka 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.

Buletinul Universității de Științe Agricole Și Medicină Veterinară Cluj-Napoca 2007

Microalgae E. W. Becker 1994 The author presents a state-of-the-art account of research in algal production and utilization. Dr Becker provides a compilation of the different methods employed worldwide for the artificial cultivation of different microalgae, including recipes for culture media, description of outdoor and indoor cultivation systems as well as harvesting and processing methods. The book will be essential reading for advanced undergraduates, postgraduates and researchers in the field.

*Sulfolipid Production from the Cyanobacterium *Synechocystis* Sp. PCC 6803 in Fed-batch Photobioreactors* Seher Dagdeviren 1999

Microbes for Better Living 1995

Algae as a Natural Solution for Challenges in Water-Food-Energy Nexus Tonni Agustiono Kurniawan 2024-07-13 This book provides an overview of challenges and opportunities for algal management to mitigate climate change. This book offers new perspectives on how to control water pollution due to algae, while converting it to biosorbent and biodiesel that could be sold in market. The work also explores how to improve the performance of algae for such purposes. By identifying existing knowledge gap, this work uncovers new research directions for further development of algal management to address global environmental pollution. • Extensive literature survey (2001-2023) in algal management based on empirical approach in the body of knowledge • A comprehensive overview with critical analysis of algal management, for water treatment, biodiesel production, and food production, while dealing with climate change • Providing insights about challenges, research direction, outlook, and perspectives of algal management in Industry 4.0 era This book has an advantage that each chapter will be written by experts around the world working in their respective fields. As a result, this volume presents a balanced picture across the whole spectrum of algae. Furthermore, the authors are from both the developing and developed countries thus giving a worldwide perspective of looming climatic problems.

Subject Guide to Books in Print 2001

The Cumulative Book Index 1995 A world list of books in the English language.

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