

Y.-S. Wong · N. F. Y. Tam
Editors

Wastewater Treatment with Algae



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Wastewater Treatment With Algae Biotechnology Intelligence Unit

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Wastewater Treatment With Algae Biotechnology Intelligence Unit:

Algal Biorefinery: An Integrated Approach Debabrata Das, 2015-11-30 This book critically discusses different aspects of algal production systems and several of the drawbacks related to microalgal biomass production namely low biomass yield and energy consuming harvesting dewatering drying and extraction processes These provide a background to the state of the art technologies for algal cultivation CO₂ sequestration and large scale application of these systems In order to tap the commercial potential of algae a biorefinery concept has been proposed that could help to extract maximum benefits from algal biomass This refinery concept promotes the harvesting of multiple products from the feedstock so as to make the process economically attractive For the last few decades algal biomass has been explored for use in various products such as fuel agricultural crops pigments and pharmaceuticals as well as in bioremediation To meet the huge demand there has been a focus on large scale production of algal biomass in closed or open photobioreactors Different nutritional conditions for algal growth have been explored such as photoautotrophic heterotrophic mixotrophic and oleaginous This book is aimed at a wide audience including undergraduates postgraduates academics energy researchers scientists in industry energy specialists policy makers and others who wish to understand algal biorefineries and also keep abreast of the latest developments

Application of Microbial Technology in Wastewater Treatment and Bioenergy Recovery Shaon Ray Chaudhuri, 2024-11-29 This book explores microbial intervention in wastewater treatment for resource recovery bioenergy production and environmental sustainability It discusses the fate of pollutants challenges in existing treatment strategies and the need for innovation Case studies illustrate wastewater specific treatment strategies for bioenergy and resource recovery at different scales The book emphasizes the use of wastewater for resource recovery through sequestration or biotransformation and highlights tailor-made consortium development for sludge free treatment It also covers sustainable approaches like microbial biofilm reactors microbial fuel cells and membrane technology for wastewater treatment It also deals with nanotechnology in combination with microbial technology for handling refractory components in wastewater that could not be handled by microbes alone This book provides insights into microbial technology for a clean environment and bioenergy production through a reduce recover and reuse approach This valuable resource offers practical information that can be applied by engineers researchers and undergraduate and graduate students as well as business professionals in the bioenergy field aiding them in the implementation of renewable energy projects

Microalgae Horizons Ihana Aguiar Severo, Juan Carlos Ordóñez, André Bellin Mariano, José Viriato Coelho Vargás, 2025-06-16 This book provides comprehensive recommendations and insights into the fundamentals innovations and industrial applications of microalgae based processes Covering both upstream and downstream processes it addresses challenges and solutions in scaling up microalgae technologies from laboratory to industrial uses Key topics include cultivation techniques bioreactor designs harvesting and drying methods and applications in food biofuels and environmental management Special emphasis is placed on market trends socio political

factors regulatory frameworks innovation and sustainability ensuring a holistic understanding of this rapidly evolving field In addition the final chapters are dedicated to real world cases highlighting pilot projects and large scale installations that tackle practical challenges in engineering and commercialization As an interdisciplinary science microalgae technology has significant relevance in academia industry and government driving innovation and contributing to a growing billion dollar global market for high value products This book serves as an essential resource for students researchers scientists engineers and professionals seeking to deepen their knowledge and stay updated on the latest developments in microalgae research and applications

Photo-Activated Sludge: A Novel Algal-Bacterial Biotreatment for Nitrogen Removal from Wastewater Angélica Rada Ariza, 2018-12-07 Nitrogen rich wastewaters 10 400 mg N L⁻¹ are usually produced by municipal industrial and agricultural wastes such as effluents from anaerobic treatments These represent a risk to the environment due to the high nutrient concentrations nitrogen and phosphorous which can cause eutrophication of water bodies deteriorating the quality of the ecosystems As a solution the potential nitrogen removal capacity of a novel bio treatment system namely the Photo Activated Sludge PAS which is composed of microalgae and bacteria consortia is presented in this thesis This novel bio treatment is based on the symbiosis between microalgae nitrifiers and heterotrophic bacteria microalgal bacterial consortia Experimental work using photobioreactors for the cultivation of microalgae and bacteria under sequencing batch conditions showed that microalgal bacterial consortia can remove ammonium 50% faster than solely microalgal consortia The increase in ammonium removal rates was due to the action of nitrifying bacteria supplied with oxygen produced by algae Nitrification was the main ammonium removal mechanism within the microalgal bacterial biomass followed by algal uptake and nutrient requirements for bacterial growth Carbon oxidation and denitrification were the main removal mechanisms for organic carbon Hence the role of algae within the microalgal bacterial system is to provide oxygen to support the aerobic processes The microalgal bacterial system offers the possibility of reducing the hydraulic retention time which can decrease the large area requirements often demanded by algal systems

Wastewater Treatment with Algae Yuk Shan Kwong, Nora F.Y. Tam, 2013-03-09 This book brings together environmental scientists and engineers to discuss the development of new approaches and methodologies which utilize microalgae for biological wastewater treatment The researchers report their recent findings on microalgal removal of nutrients heavy metals and other organic pollutants from sewage and industrial effluents The technologies discussed here include biosorption and bioaccumulation of heavy metals cell immobilization of algae and mathematical modelling of metal uptake by cells This book is unique in that it takes a practical approach to the subject matter and is a useful reference both in and outside of the laboratory

Value Added Products From Bioalgae Based Biorefineries: Opportunities and Challenges Shailendra Kumar Arya, Madhu Khatri, Gursharan Singh, 2024-05-27 This book covers wide aspects of algal technology and algae based biorefinery aspects Algae are the most prevalent primitive and abundant microbes on Earth however the commercialization of algal based value added products is still low due to the

negligible dissemination of knowledge flow among the stakeholders and researchers This book provides up to date information on the cultivation of microalgae their harvesting downstream processing and diverse applications It further discusses the macromolecules existing in microalgae such as proteins carbohydrates and lipids poly unsaturated fatty acids peptides exo polysaccharides flavonoids and antioxidants This book also highlights the advantages and some real time challenges before the establishment of sustainable algal based biorefineries Further it includes clear flow charts and figures in each chapter to aid in interpretation of every technical concept This book motivates readers entrepreneurs and young farmers to exploit easily growing microalgae through cottage to large scale biorefineries and start their own businesses for the production of value added products *Forthcoming Books* Rose Arny,1998 Floodplain Management Nancy S. Philippi,1996 **Selected Water Resources Abstracts** ,1990 **Natural and Anthropogenic Hazards in Development Planning** Frederic R. Siegel,1996 This book covers the early stages of development planning in relation to the inevitable occurrence of natural hazards their damaging affects Events such as earthquakes volcanoes wildfires can be devastating to the developments in their proximity This book addresses the importance of planning for both natural anthropogenic hazards brings into focus the technical scientific economic political social links that should be considered in the earliest stages of development planning The topic is considered from a financial viewpoint to help economists lenders planners understand the value of initial investment against hazard impact This prevention by initial investment can result in a better economic yield for investors a better quality of life for people who work service projects thus assuring continuous productivity Knowledge Review ,2002 **Biotechnology Research Abstracts** ,1991 Monthly Classified listing of references to worldwide articles dealing with all aspects of biotechnology Also includes books and conferences Each entry gives bibliographic information institutional address of author s and abstract Author and subject index Subject Guide to Books in Print ,1991 **Ecological and Evolutionary Aspects of Insecticide Resistance** John A. McKenzie,1996 This comprehensive book addresses the ecological evolutionary forces that shape the response of insect populations to attempted control by chemical insecticides Through broad coverage of the literature the author investigates phenotypic basis of the change from susceptibility to resistance at genetic molecular biochemical levels then relates the results to the most effective strategies for managing resistance Within this framework this book critically analyzes areas of current research identifies areas of future research Dr McKenzie emphasizes the necessity of a pure research approach to understanding the evolution of resistance he asserts that resistance systems are ideal models for tackling questions of general ecological evolutionary interest *The Effects of Ozone Depletion on Aquatic Ecosystems* Donat-Peter Häder,1997 *Ecology, Environment & Conservation* ,2007 **Effluent & Water Treatment Journal** ,1983 **Archiv Für Hydrobiologie** ,2006 *Environment Abstracts* ,1985 *Agrindex* ,1994

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