

Y.-S. Wong · N. F. Y. Tam  
Editors

# Wastewater Treatment with Algae



Springer

# Wastewater Treatment With Algae Biotechnology Intelligence Unit

**Yuk Shan Kwong, Nora F.Y. Tam**



## **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 CO<sub>2</sub> 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

*Microalgae Horizons* Ihana Aguiar Severo, Juan Carlos Ordóñez, André Bellin Mariano, José Viriato Coelho Vargas, 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

**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

tailormade 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

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<sup>-1</sup> 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 *Subject Guide to Books in Print* ,1991 The Effects of Ozone Depletion on Aquatic Ecosystems Donat-Peter Häder,1997 *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 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

Knowledge Review ,2002 *Ecology, Environment & Conservation* ,2007 *Effluent & Water Treatment Journal* ,1983 *Archiv Für Hydrobiologie* ,2006 Directory of Canadian Environmental Experts ,1984 *American Book Publishing Record* ,2001

Wastewater Treatment With Algae Biotechnology Intelligence Unit: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year.

Wastewater Treatment With Algae Biotechnology Intelligence Unit : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Wastewater Treatment With Algae Biotechnology Intelligence Unit : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Wastewater Treatment With Algae Biotechnology Intelligence Unit : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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