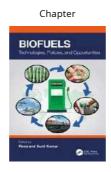
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First Published	2023
Imprint	CRC Press
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ABSTRACT

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Microbes, Environment and Human Welfare

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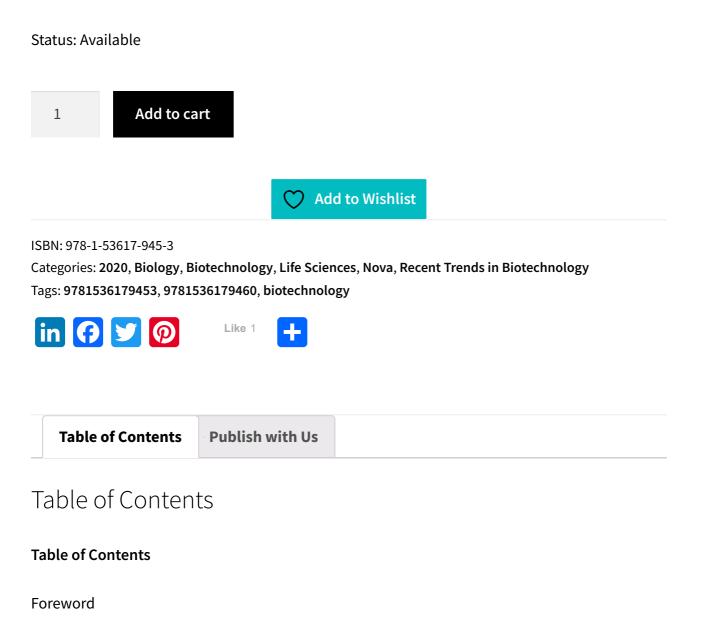
Series: Recent Trends in Biotechnology BISAC: SCI010000

The book entitled "Microbes, Environment and Human Welfare" is divided into fifteen chapters that cover various aspects of microorganism-based biotechnology, including recent methodologies such as advanced molecular techniques, as well developments in classical microbiological techniques. The authors also explain how the latest and classical techniques are being used in modern-day microbial biotechnology. All chapters were written by experts from prominent universities, research laboratories, and institutes around the globe. Above all, they focus on recent advances in microbial technology that promote the welfare of living beings and the environment.

Microbes in human welfare from different angles starting from source of antibiotics to fermented food to production of biofuel have been discussed with environmental relevance. Separate chapters discussing the use of microbes for remedy of environmental problems help the book to stand with the moto of sustainable development and protection of nature. Global problem in clinical microbiology is discussed with plausible novel remedial approaches. Further, it explains how and why microbes play an important role in preserving the welfare of living beings and the environment. Many bacteria play a significant part in cleaning our environment by detoxifying various xenobiotic compounds, while several microbes produce secondary metabolites that are useful to human beings. (Imprint: Nova)

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Preface

Acknowledgments

Chapter 1. Antibiotic Resistance: Genesis, Germs and the Way Forward (Sandipan Mukherjee, Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, Mumbai, India)

Chapter 2. Microbe-Mediated Remediation of Heavy Metal Contamination (Palas Samanta, PhD, Apurba R. Ghosh, PhD, and Jinho Jung, PhD, Department of Environmental Science, Sukanta Mahavidyalaya, University of North Bengal, Dhupguri, West Bengal, India, and others)

Chapter 3. Microbes in Extreme Environments (Masrure Alam, Assistant Professor, Department of Biological Sciences, Aliah University, New Town, Kolkata, India) 11/5/24, 9:48 AM Serial No. 276 Intelligent Environmental Data Monitoring for Pollution Management | ScienceDirect



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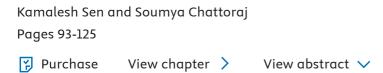
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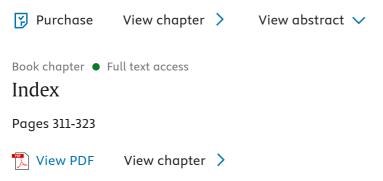
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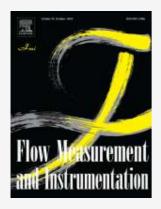
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Chapter 3

An Overview of Biomass Conversion from Agricultural Waste

Address on Environmental Sustainability

Palas Samanta, Tarakeshwar Senapati, Sukhendu Dey, Apurba Ratan Ghosh

Book Editor(s):Suruchi Singh, Pardeep Singh, Anu Sharma, Moharana Choudhury

First published: 09 December 2022 https://doi.org/10.1002/9781119808428.ch3

Summary

Bioenergy is considered as an integral part to address climatic menace as well as environmental, economic, and social security challenges. Biofuels, in this regard, ensure a sustainable and low-carbon alternative to fossil fuels because of cleanliness and renewable nature. Biofuel production, in particularly, from agricultural residue/waste is very advantageous since agricultural residues are cheap, readily available, renewable in nature, and highly biodegradable. Agricultural wastes become one of the most alternative energy sources for both non-renewable and renewable energy sources recently, since their lignocellulose (lignin, cellulose, hemicelluloses, etc.) content proved as promising substrate for biofuel production. Apart from these, the economic aspect (lower production cost due to cheaply available materials) and environmental concern (environmental deterioration due to phenolic compounds) of agricultural waste can be minimized through its utilization during biofuel production. Accordingly, this review paper focuses on various aspects of biofuel production such as agricultural waste types, their sources, and different economic conversion technologies for biofuel production. In particular, thermochemical techniques (pyrolysis, liquefaction, and gasification) and biochemical technologies (anaerobic digestion, photobiological hydrogen production, and alcoholic fermentation) were critically evaluated. Additionally, the role of different regulatory factors, namely pH, temperature, pressure, amount of biomass, and microbial actors, are discussed. Finally, the outcomes of this review paper will provide clear picture about various aspects of agricultural waste-based biofuel production in economical and environmentally beneficial way and will provide valuable information to researchers and scientific community.

Serial No. 279

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Mechanism of metal sorption by biochar

From the book BioChar

Palas Samanta, Sukhendu Dey, Jinho Jung and Apurba Ratan Ghosh

https://doi.org/10.1515/9783110734003-006



Abstract

Biochar has received potential interest as a cost-efficient and environmentfriendly sorbent material to remediate metal contamination recently. However, the mechanism of metal sorption capacity by agriculture-based biochar is still lacking. Accordingly, this review chapter demonstrates metal sorption mechanisms by biochar including physical binding, ion exchange, membrane filtration, complexation, precipitation, sorption, and electrostatic interactions and elucidate the role of corresponding biochar characteristics namely biochar preparation methods, surface area or charge, porosity, medium pH, presence of functional groups, mineral components, and pyrolysis temperature. Additionally, this review chapter addresses different techniques, namely steam or acid/base activation, composite impregnation with carbonrich materials, minerals, organic compounds, and so on to improve metal sorption capacity either through functional improvement or providing efficient surface attributes to biochar. Furthermore, this chapter describes different mathematical models to check the metal sorption efficiency by biochar. Finally, this chapter highlights the future prospects of biochar-associated metal sorption in large-scale field application cost-effectively.

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Special Issue:1st International Conference on Environmental Science (ICES): Climate Change and Ecosystem Restoration (Theme), Khulna University, Khulna, Bangladesh, February 19-20, 2022

/ Life Science

ASSESSMENT OF WATER QUALITY PARAMETERS OF AN ABANDONED OPENCAST COAL PIT (OCP) OF ASANSOL-RANIGANJ COALFIELD (ARCF), PASCHIM BARDHAMAN, WEST BENGAL, INDIA

Amit Kumar Dey

Ecotoxicology Laboratory, Department of Environmental Science, The University of Burdwan, Purba Bardhaman, West Bengal, India

Apurba Ratan Ghosh

Ecotoxicology Laboratory, Department of Environmental Science, The University of Burdwan, Purba Bardhaman, West Bengal, India

DOI: https://doi.org/10.53808/KUS.SI.2023.ICES.A55-ls

Keywords: Samdihi OCP, water quality, aquaculture, agriculture, pisciculture

Abstract

Coal mining and its auxiliary actions have already been proved to cause potential pollutions to ecosystems. This research work assesses the surface water quality of Samdihi abandoned Opencast Coal Pit (OCP) of Asansol-Raniganj Coalfield Areas (ARCF). Twenty seven water samples were collected maintaining temporal variability and were analyzed for physicochemical attributes. The pH was slightly alkaline with lowest of 7.8 during winter. The water temperature varied between 20 and 35°C. Conductivity was highest during winter (601±3.51 µS/cm) and lowest during monsoon (333±2.8 µS/cm). The Total Suspended Solids (TSS) and Total Dissolved Solids (TDS) ranged from 212 to 2738 mg/L and 170 to 413 mg/L respectively. The low values of TSS (212 mg/L) and TDS (170 mg/L) were observed during winter and the higher values of TSS (2738 mg/L) and TDS (413 mg/L) were observed during monsoon. The dissolved oxygen concentration was moderately high (between 6.89 and 8.43 mg/L) but comparatively higher (8.5 mg/L) in monsoon. The estimated dissolved concentration of phosphate, sulphate, sodium and potassium were 4.2±0.17, 98.6±10.48, 8.6±0.47 and 2.5±0.75 mg/L respectively. Zooplankton population in the OCP was found to be 8±1.76

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Special Issue:1st International Conference on Environmental Science (ICES): Climate Change and Ecosystem Restoration (Theme), Khulna University, Khulna, Bangladesh, February 19-20, 2022

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EXPOSURE UNDER CHOLINE CHLORIDE EXHIBITS SUCCESSFUL GONADAL MATURATION OF INDIAN MAJOR CARPS AND AIR-BREATHING TELEOSTS IN A SEMI-INTENSIVE PISCICULTURE SYSTEM: A HISTOTECHNOLOGICAL INTROSPECTION

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DOI: https://doi.org/10.53808/KUS.SI.2023.ICES.A53-ls

Keywords: Indian major carps, air-breathing teleosts, semi-intensive culture, choline chloride, ovary, testis

Abstract

Surveillance under direct field-pond application of choline chloride in addition to farm-made-aquafeed under semi-intensive culture system was investigated on the gonadal maturity in two Indian Major Carps *Catla catla* (Catla) and *Labeo rohita* (Rahu) and in two air-breathing teleosts, e.g., *Clarias batrachus* (Magur) and *Anabas testudineus* (Koi) reared in a ratio of 2:5:1:1:: Catla:Rahu:Magur:Koi for a period of 90-d both during dry [November to January as control-dry (CD) and treatment-dry (TD)] and in breeding seasons [June to August as control-breeding (CB) and treatment-breeding (TB)]. Results were compared with control [C: pond (C) fed only with farm-made-aqua-feed] and Serial No. 282

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Serial No. 284 Cognitive Data Models for Sustainable Environment

Cognitive Data Science in Sustainable Computing

2022, Pages 1-18

Chapter 1 - Multidimensional controlling properties of biofabricated silvernanoparticles on different mosquito species

Arghadip Mondal, Priyanka Debnath, Naba kumar Mondal



Abstract

Nanoparticles are playing an important role in controlling mosquitoes, and have done so for the last 10 years. Now, this technology is applied in many fields for their very high affectivity compared to bulk particles because of their size, which is between 100nm. Mosquitoes have spread various deadly diseases like yellow fever, zika, <u>dengue</u>, West Nile, and <u>filaria</u>. But commercially available chemical, physical, and biological products or techniques cannot control this vectors at a satisfactory level. From this background, nanotechnology is one of the main attractions of world researchers. Specially silver nanoparticles activity was better as a mosquito-larvicidal agent compare to other biosynthesized nanoparticles. The effect of silver nanoparticles was different on various stage of mosquito life cycle.

In this chapter, we will focus on the synthesis properties of silver nanoparticles from different biological sources, like microbes, plants, and animal. We will also focus on controlling properties of silver nanoparticles on different mosquito species and different stages of their life cycle. Finally, this chapter concluded a comparative study of <u>AgNPs</u>



Serial No. 285 Cognitive Data Models for Sustainable Environment

Cognitive Data Science in Sustainable Computing

2022, Pages 163-180

Chapter 7 - ZnO nanoparticles: a facile synthesized agent for removing dye from aqueous solution in an ecofriendly way

Priyanka Debnath, Arghadip Mondal, Naba Kumar Mondal

https://doi.org/10.1016/B978-0-12-824038-0.00007-9 7 Get rights and content 7

Abstract

Colored waters is an emerging issue, especially the wastewaters discharging from dyeing industries, ultimately affecting the <u>drinking water</u>. To minimize the detrimental effects of contaminated water and to overcome the inadequacy of traditional methods, technology-based smart treatment processes are imperative for sustainable supply of <u>drinking water</u>. Nanoparticle is a very promising class of materials used for this purpose which can effectively act as a potential adsorbent materials for dye-adsorption as well as <u>photocatalyst</u>. In this chapter, a brief description of nanostructured <u>ZnO</u> along with its different synthesis methods and its remarkable efficiency toward removal of some widely used azo and nonazo dyes from aqueous system will be discussed.

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2022, Pages 181-202

Chapter 8 - Optimization of rural indoor kitchen structure and minimizing the pollution load: a sustainable environmental modeling approach

Deep Chakraborty, Naba Kumar Mondal

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Abstract

Studies showed good ventilation is one of the key factors that can play an important role to minimize the health risk from <u>indoor air pollution</u>. In the present study, toxic <u>indoor air pollutants</u> (CO, <u>CO</u>₂, and O₃) were selected as one of the key response variables and the windows number, the kitchen volume, and cooking hour were selected as the factors to optimize the rural kitchen configuration. Optimization was executed in the design expert software while implementing <u>response surface methodology</u> (RSM). From the ANOVA analysis, it was clear that all models applied were significant. Moreover, there were high <u>desirability</u> values in case of <u>CO</u>₂, temperature, and <u>relative humidity</u> provided that the optimum conditions/configurations were applied. This work describes how rural villagers can optimize their kitchens with their low-cost materials to build a sustainable indoor household condition, which will provide a sustainable healthy lifestyle.

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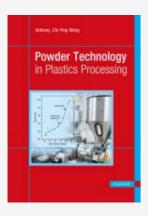
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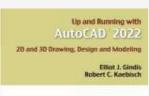
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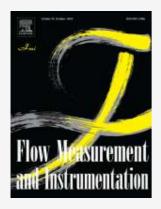
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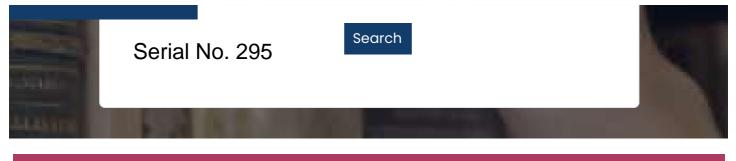
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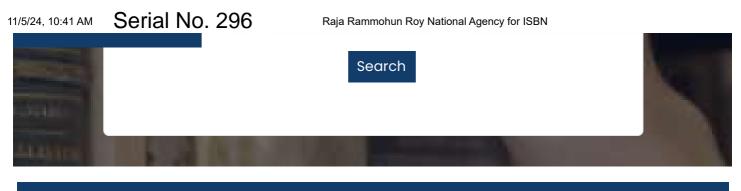
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