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# Journal Of Molecular Catalysis B Enzymatic Researchgate

**Sudhir P. Singh, Ashok Pandey, Reeta  
Rani Singhania, Christian Larroche, Zhi  
Li**

## **Journal Of Molecular Catalysis B Enzymatic Researchgate:**

**Advanced Biofuels and Circular Economy** Rahil Akhtar Usmani, Mudasir A. Dar, Akram Ahmad Khan, 2025-08-23 This book offers a holistic analysis of the role of advanced biofuels within the context of the circular economy. It provides a multidisciplinary perspective on cutting edge developments in biofuel technology including their sustainability impact, technological, economic and socio economic considerations. This edited collection merges insights from environmental science, economics and sustainability studies to provide a comprehensive understanding of the current landscape of advanced biofuels. Each chapter explores the complex interplay of the circular economy with biotechnological advancement, analysing diverse aspects including biofuel production impact on local communities, their role in sustainable development and job creation, role in long term economic growth and tackling climate challenges. The book also offers practical guidance on assessing socio economic impacts and navigating the regulatory landscape. This is a valuable resource for researchers in the bioeconomy, circular economy, agricultural and environmental economics as well as policymakers looking to make informed decisions and contribute to sustainable practices. *Sustainability Challenges in the Agrofood Sector* Rajeev Bhat, 2017-04-24

*Sustainability Challenges in the Agrofood Sector* covers a wide range of agrofood related concerns including urban and rural agriculture and livelihoods, water energy management, food and environmental policies, diet and human health. Significant and relevant research topics highlighting the most recent updates will be covered with contributions from leading experts currently based in academia, government bodies and NGOs (see list of contributors below). Chapters will address the realities of sustainable agrofood, the issues and challenges at stake and will propose and discuss novel approaches to these issues. This book will be the most up to date and complete work yet published on the topic with new and hot topics covered as well as the core aspects and challenges of agrofood sustainability. *Biodegradation of Toxic and Hazardous Chemicals* Kashyap K.

Dubey, Kamal K. Pant, Ashok Pandey, Maria Ángeles Sanromán, 2024-04-30 This reference book discusses the applications of microorganisms as a crucial solution for the sustainable management of toxic pollutants. It describes the microbial remediation of different kinds of pollutants like wastewater, antibiotics and toxic chemicals. It highlights the technical, scientific, regulatory, safety and societal impacts of various sustainable biodegradation approaches. The book describes various sensors in environmental pollution monitoring and pollutant detection. **KEY FEATURES** Provides a deep understanding of the use of sensors in environmental water monitoring and pollutant detection. Covers exciting topics like biological upcycling of plastic wastes into value added chemicals. Presents future research needs on biodegradation and scientific challenges in the mitigation of environmental pollutants. Brings out the latest themes such as eco design, study of bio nanomaterials, bio nanofilters and assessment for the treatment of emerging pollutants. Reviews the biodegradation of toxicants to improve the quality of water and air and environmental sustainability. This book is meant for scientists, ecologists, microbiologists, industry experts, researchers, students, innovators involved in biotechnology research and policymakers focused on bioremediation.

**Renewable Fuels** Rajni Kant,Keshav Kant,2023-07-17 Renewable fuels in the present times have become important to curb emission of greenhouse gases which are causing damage to the environment and leading to climatic changes Ideally their utilization can be a zero carbon operation Planting suitable trees on all waste lands and agro forestry on a large scale can fulfil the needs of timber fuel fruits etc All kinds of lignocellulosic biomass can be converted by several methods to useful liquid fuels like alcohols biodiesel methane renewable diesel and renewable gasoline Hydrogen can be used as a renewable fuel because of its desirable characteristics and properties for its use as a green fuel **Biothermodynamics** Mustafa

Ozilgen,Esra Sorguven Oner,2016-11-18 Over the past several decades there has been increasing research interest in thermodynamics as applied to biological systems This concerns topics such as muscle work and internal energy such as fat and starch Applications of the first and second laws of thermodynamics to the human body are important to dieticians and health science experts and applications of these concepts to the animal body are a major concern of animal scientists This book covers these key topics which are typically not covered in classic or traditional thermodynamics texts used in mechanical and chemical engineering Begriffe der Krankenversicherung Thüringer Ortskrankenkassenverband,1936

Magnetic Effects Across Biochemistry, Molecular Biology and Environmental Chemistry A L Buchachenko,2023-11-14 Magnetic Effects Across Biochemistry Molecular Biology and Environmental Chemistry Genes Brain and Cancer under Magnetic Control provides an overview of the influence of magnetism upon molecular and biochemical processes and its impact on disease health and organisms This book provides an understanding of key concepts behind magnetic fields before exploring their biological significance It elucidates when and why magnetic effects arise how they function and how they can be utilized Molecular mechanisms underlying magnetic effects and the impact of magnetism on genes are explored Additionally magnetic control in treatment of diseases including cancer heart disease and neurological disease is investigated This book explores a rapidly developing and intriguing field of science providing a basis for future study in the field of magneto biology and is a useful reference for researchers across biochemistry molecular biology biophysics and related fields

*Processing Technologies for Milk and Milk Products* Ashok Kumar Agrawal,Megh R. Goyal,2017-09-07 The demand for quality milk products is increasing throughout the world Food patterns are changing from eating plant protein to animal protein due to increasing incomes around the world and the production of milk and milk products is expanding with leaps and bounds This book presents an array of recent developments and emerging topics in the processing and manufacturing of milk and dairy products The volume also devotes a special section on alternative energy sources for dairy production along with solutions for energy conservation With contributions for leading scientists and researchers in the field of dairy science and technology this valuable compendium covers innovative techniques in dairy engineering processing methods and their applications in dairy industry energy use in dairy engineering sources conservation and requirements In line with the modern industrial trends new processes and corresponding new equipment are reviewed The volume also looks at the development of

highly sensitive measuring and control devices have made it possible to incorporate automatic operation with high degree of mechanization to meet the huge demand of quality milk and milk products Processing Technologies for Milk and Milk Products Methods Applications and Energy Usage will be a valuable resource for those involved in the research and production of milk and milk products *Biomass, Biofuels, Biochemicals* Sudhir P. Singh, Ashok Pandey, Reeta Rani Singhania, Christian Larroche, Zhi Li, 2020-04-03 Advances in Enzyme Catalysis and Technologies intends to provide the basic structural and functional descriptions and classification of enzymes The scientific information related to the recombinant enzyme modifications discovery of novel enzymes and development of synthetic enzymes are also presented The translational aspects of enzyme catalysis and bioprocess technologies are illustrated by emphasizing the current requirements and future perspectives of industrial biotechnology Several case studies are included on enzymes for biofuels application micro algal biorefineries high value bioactive molecules production and enzymes for environmental processes such as enzymatic bioprocessing for functional food development biocatalytic technologies for the production of functional sweetener etc Provides a conceptual understanding of enzyme catalysis enzyme engineering discovery of novel enzymes and technology perspectives Includes comprehensive information about the inventions and advancement in enzyme system development for biomass processing and functional food developmental aspects Gives an updated reference for education and understanding of enzyme technology **Natural and Synthetic Microbiology for the Production of Novel Biomolecules for Applications in the Areas of Food, Fuel, Farming, Pharma and Environment** Monika Prakash Rai , Guneet Kaur, Sujata Sinha, 2024-07-30 The use of microbial systems to produce various biomolecules at an industrial scale is the most common method available as it is cost effective and easy to produce Currently high yield strains isolated naturally or modified genetically for yield improvements and cost effectiveness are becoming increasingly popular A number of strategies for strain improvement have been reported by scientists and researchers that have been used for production at an industrial scale

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