

ADVANCES IN

APPLIED MICROBIOLOGY

VOLUME 94



Advances In Applied Microbiology Volume 93

Carol D. Litchfield, P. L. Seyfried



Advances In Applied Microbiology Volume 93:

Advances in Applied Microbiology, 2015-11-16 Advances in Applied Microbiology continues to be one of the most widely read and authoritative review sources in microbiology containing comprehensive reviews of the most current research in applied microbiology Users will find invaluable references and information on a variety of areas including protozoan grazing of freshwater biofilms metals in yeast fermentation processes the interpretation of host pathogen dialogue through microarrays and the role of polyamines in bacterial growth and biofilm formation Eclectic volumes are supplemented by thematic volumes on various topics including Archaea and sick building syndrome Contributions from leading authorities Informs and updates on all the latest developments in the field Topics discussed include protozoan grazing of freshwater biofilms metals in yeast fermentation processes and the interpretation of host pathogen dialogue through microarrays and more

Advances in Applied Biotechnology Marian Petre, 2012-01-20 Biotechnology is the scientific field of studying and applying the most efficient methods and techniques to get useful end products for the human society by using viable micro organisms cells and tissues of plants or animals or even certain functional components of their organisms that are grown in fully controlled conditions to maximize their specific metabolism inside fully automatic bioreactors It is very important to make the specific difference between biotechnology as a distinct science of getting valuable products from molecules cells or tissues of viable organisms and any other applications of bioprocesses that are based on using the whole living plants or animals in different fields of human activities such as bioremediation environmental protection organic agriculture or industrial exploitation of natural resources The volume *Advances in Applied Biotechnology* is a scientific book containing recent advances of selected research works that are ongoing in certain biotechnological applications Fourteen chapters divided in four sections related to the newest biotechnological achievements in environmental protection medicine and health care biopharmaceutical producing molecular genetics and tissue engineering are presented

Microbial Enhancement of Oil Recovery - Recent Advances E.C. Donaldson, 1991-04-03 This conference was instituted to examine field activities in Microbial Enhancement of Oil Recovery The U S Department of Energy has sponsored several field projects and the details from some of these were presented as well as a few from industry The balance of the program was concerned with new developments in research Today s oil production technology leaves one third to one half of the original oil in place in the reservoir at abandonment of secondary recovery waterflooding This leaves a very large target for microbial enhanced oil recovery which was shown by the research papers of this conference to be capable of producing up to 50% of the residual oil The field trials show that the normal projected oil production decline curve can be reversed or leveled off by microbial enhancement of oil recovery This conference has shown that a variety of applications are possible to correct oilfield problems as well as to enhance oil recovery Among these is the suppression of hydrogen sulfide production which alone is a tremendous advance because of the large quantity of sour oil production If hydrogen sulfide production can be curtailed it

would increase the value of the produced oil decrease its toxicity and largely decrease its corrosiveness. All of these would be welcome both in the field and at the petroleum refinery where special precautions must be taken to process sour crude oil. Another very important discovery is the ability of certain bacteria to eliminate paraffin deposition around the producing well and in the tubulars. This is a welcome improvement for many producers who have considerable difficulty in controlling paraffin deposition.

High Value Fermentation Products, Volume 1 Saurabh Saran, Vikash Babu, Asha Chaubey, 2019-04-09 Green technologies are no longer the future of science but the present. With more and more mature industries such as the process industries making large strides seemingly every single day and more consumers demanding products created from green technologies, it is essential for any business in any industry to be familiar with the latest processes and technologies. It is all part of a global effort to go greener and this is nowhere more apparent than in fermentation technology. This book describes relevant aspects of industrial scale fermentation, an expanding area of activity which already generates commercial values of over one third of a trillion US dollars annually and which will most likely radically change the way we produce chemicals in the long term future. From biofuels and bulk amino acids to monoclonal antibodies and stem cells, they all rely on mass suspension cultivation of cells in stirred bioreactors, which is the most widely used and versatile way to produce. Today a wide array of cells can be cultivated in this way and for most of them genetic engineering tools are also available. Examples of products, operating procedures, engineering and design aspects, economic drivers and cost and regulatory issues are addressed. In addition, there will be a discussion of how we got to where we are today and of the real world in industrial fermentation. This chapter is exclusively dedicated to large scale production used in industrial settings.

Corrosion of Austenitic Stainless Steels H S Khatak, B Raj, 2002-10-14 This comprehensive study covers all types of corrosion of austenitic stainless steel. It also covers methods for detecting corrosion and investigating corrosion related failure together with guidelines for improving corrosion protection of steels. Details all types of corrosion of austenitic stainless steel. Covers methods for detecting corrosion and investigating corrosion related failure. Outlines guidelines for improving corrosion protection of steels.

Subject Guide to Books in Print, 1997 **Biofuel Extraction Techniques** Lalit Prasad, Subhalaxmi Pradhan, S. N. Naik, 2023-05-23 BIOFUEL EXTRACTION TECHNIQUES The energy industry and new energy sources and innovations are rapidly changing and evolving. This new volume addresses the current state of the art concepts and technologies associated with biofuel extraction technologies. Biofuels are a viable alternative to petroleum based fuel because they are produced from organic materials such as plants and their wastes, agricultural crops and by products. The development of cutting edge technology has increased the need for energy significantly, which has resulted in an overreliance on fossil fuels. Renewable fuels are an important subject of research because of their biodegradability, eco friendliness, decrease in greenhouse gas (GHG) emissions and favorable socioeconomic consequences to counteract imitations of fossil fuels. Different extraction techniques are used for the production of biofuel from renewable

feedstocks A good example is biodiesel a promising biofuel which is produced by transesterification of plant based oils Extraction of oil includes traditional methods solvent extraction mechanical extraction microwave assisted and ultrasonic assisted methods Many innovative techniques are also used to overcome the limitations of conventional methods Microwave assisted and ultrasonic assisted are some of the new techniques which include the pre treatment of the raw material using either ultrasonic waves or radio waves which helps in increasing the efficiency of the extraction of oil and improves the final quality of the oil Written and edited a team of experts in the field this exciting new volume covers all of these technologies with a view toward giving the engineer scientist or other professional the practical solutions for their day to day problems It also contains the theory behind the practical applications as well making it the perfect reference for students and engineers alike Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library Aquatic Ecosystems and Microbial Biofilms Siddhardha Busi, Ram Prasad, 2024-10-01 Aquatic Ecosystems and Microbial Biofilms Significance Dynamics Prevention and Control provides a systematic introduction and review of state of the art information on microbial biofilms in aquatic ecosystems and their control The book is designed and developed to understand the microbial biofilms in aquatic ecosystems their role and the control strategies The contents of the book are well discussed to get state of art knowledge on various topics such as the role of biofilms in marine ecosystems microbial biofilms and drinking water systems biofilms in biofouling and biocorrosion beneficial aspects of biofilms such as biogeochemical cycling wastewater treatment and in biodeterioration of organic materials This book also provides comprehensive knowledge and in depth scientific information on the role of biofilms and their contribution to antibiotic resistance and also advanced technologies to understand biofilms such as metagenomics The book offers comprehensive coverage of the most essential topics including Microbial biofilms in aquatic ecosystems New horizons to understand the role of biofilms in biofouling and corrosion and their control measures Beneficial role of aquatic biofilms such as in biogeochemical cycling wastewater treatment and biodeterioration of organic materials Various strategies to collaborate interdisciplinary schemes worldwide to design and develop new methods for cleaner drinking water and information on advanced techniques such as metagenomics to understand the diversity and functional role of aquatic biofilms This book serves as a reference book for scientific investigators who would like to study biofilms in aquatic ecosystems as well as researchers developing methodology in this field to study biofilm formation in aquatic ecosystems their advantages and disadvantages and control strategies **The Microbial Degradation of Oil Pollutants** Donald G. Ahearn, S. P. Meyers, 1973 32 papers *Microbiology of Fermented Foods* B.J. Wood, 2012-12-06 When I undertook the production of the First Edition of this book it was my first foray into the world of book editing and I had no idea of what I was undertaking I was not entirely alone in this as in asking me to produce such a book the commissioning Editor Mr George Olley of Elsevier Applied Science Publishers had pictured a text of perhaps 300 pages but on seeing my list of chapter titles realized that we

were talking about a chapter two volume work We eventually decided to go ahead with it and the result was more successful than either of us had dared to hope could be It was therefore with rather mixed emotions that I contemplated the case a second edition at the suggestion of Blackie Press who had taken over the title from Elsevier On the one hand I was naturally flattered that the book was considered important enough to justify a second edition On the other hand I was very well aware that the task would be even greater this time Handbook of Industrial Chemistry and Biotechnology James A.

Kent,2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins Progress in Biomass and Bioenergy Production Shahid Shaukat,2011-07-27 Alternative energy sources have become a hot topic in recent years The supply of fossil fuel which provides about 95 percent of total energy demand today will eventually run out in a few decades By contrast biomass and biofuel have the potential to become one of the major global primary energy source along with other alternate energy sources in the years to come A wide variety of biomass conversion options with different performance characteristics exists The goal of this book is to provide the readers with current state of art about biomass and bioenergy production and some other environmental technologies such as Wastewater treatment Biosorption and Bio economics Organized around providing recent methodology current state of modelling and techniques of parameter estimation in gasification process are presented at length As such this volume can be used by undergraduate and graduate students as a reference book and by the researchers and environmental engineers for reviewing the current state of knowledge on biomass and bioenergy production biosorption and wastewater treatment

Advanced Topics in Biomineralization Jong Seto,2012-02-17 Advanced Topics in Biomineralization is a compendium of current topics focusing on processes of formation organization as well as mineralization of novel structural materials From

enchondral ossification to the application of biomineralized cement the subject of biomineralization encompasses a range of diverse disciplines including molecular biology supramolecular chemistry materials science and engineering A common theme in all these areas of research in biomineralization is the ability to utilize strategies from Nature to create functional materials By understanding Nature s tools to make strong and tough materials similar properties can be endowed into man made materials in the near future Methodology for Biomass Determinations and Microbial Activities in Sediments Carol

D. Litchfield,P. L. Seyfried,1979 **Forthcoming Books** Rose Arny,1996-06 **World List of Serials in Agricultural Biotechnology** Robert D. Warmbrodt,Diana Airozo,1993 **Disposal of Plastics with Minimum Environmental Impact**

Howard W. Mackinney,1973 **Acetogens - From the origin of life To biotechnological applications** Mirko

Basen,Volker Müller,2023-03-07 *Green Technologies for Wastewater Treatment and Bioenergy Production* Imran

Ahmad,2025-03-28 Currently most of the physical and chemical technologies generally employed for the treatment of wastewater are costly and inefficient Researchers have been working to find green technologies for the sustainable and economically viable treatment methods for wastewater and Green Technologies for Wastewater Treatment and Bioenergy Production focuses on these latest advancements These include bioremediation bioaugmentation wetlands and algal treatment technologies which are considered to contribute toward a circular bioeconomy and to be crucial in attaining various sustainable development goals Examines the production of biofuels and other forms of bioenergy derived from wastewater Explains how these emerging green technologies contribute toward a circular bioeconomy and aid in achieving various sustainable development goals *3D Printing in Radiation Oncology* James Robar,2024-07-05 3D Printing in Radiation Oncology Personalization of Patient Treatment Through Digital Fabrication presents a comprehensive and practical view of the many forms in which 3D printing is being integrated into radiation oncology practice Radiation oncology employs among the most sophisticated digital technologies in medicine Until recently however the last mile of treatment has required manually produced or generic devices for patient set up positioning control of surface dose and delivery of brachytherapy treatment 3D printing is already offering enhancements in both precision and efficiency through the digital design and fabrication of patient photon and electron bolus customized surface and gynecological brachytherapy applicators proton beam compensators and range shifters patient immobilization novel radiation detectors and phantoms Various innovations are disrupting decades old practices in radiation therapy RT facilities resulting in vital improvements in personalization of treatment and patient experience An essential read for radiation oncologists medical physicists radiation therapists oncology nurses hospital administrators engineers and medical educators this book is an indispensable resource for those bringing 3D printing to the RT clinic looking to expand the role of 3D printing in their practice or embarking upon related research and development

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