

Performance Of Pleurotus Florida On Paddy Straw Substrates

This book provides the whole spectrum of polysaccharides from basic concepts to commercial market applications. Chapters cover various types of sources, classification, properties, characterization, processing, rheology and fabrication of polysaccharide-based materials and their composites and gels. The applications of polysaccharides include in cosmetics, food science, drug delivery, biomedicine, biofuel production, marine, packaging, chromatography and environmental remediation. It also reviews the fabrication of inorganic and carbon nanomaterials from polysaccharides. The book incorporates industrial applications and will fill the gap between the exploration works in the laboratory and viable applications in related ventures.

With rampant industrialization, the management of waste generated by various industries is becoming a mammoth problem. Wastewater discharges from industrial and commercial sources may contain pollutants at levels that could affect the quality of receiving waters or interfere with potable water supplies. Thousands of small and large-scale industrial units dump their waste, which is often toxic and hazardous, in open spaces and nearby water sources. Over the last three decades, many cases of serious and permanent damage to the environment and human health on the part of these industries have come to the fore. This book mainly focuses on the biological treatment of wastewater from various industries, and provides detailed information on the sources and characteristics of this wastewater, followed by descriptions of the biological methods used to treat them. Individual chapters address the treatment of wastewater from pulp and paper mills; tanneries; distilleries, sugar mills; the dairy industry; wine industry; textile industry; pharmaceutical industry; food processing industry; oil refinery/petroleum industry; fertilizer industry and beverage/ soft drink bottling industry; and include the characteristics of wastewater, evaluation of biological treatment methods, and recycling of wastewater. Easy to follow, with simple explanations and a good framework for understanding the complex nature of biological wastewater treatment processes, the book will be instrumental to quickly understanding various aspects of the biological treatment of industrial wastewater. It will serve as a valuable reference book for scientists, researchers, educators, and engineers alike.

Oyster Mushroom

January 1988 - June 1992

Annual Report of the Bangladesh Agricultural Research Institute

Quick Bibliography Series

Biotransformations: Bioremediation Technology for Health and Environmental Protection

January 1970 - March 1997

The discipline of Mushroom Biology, created by the authors of this book, has now been legitimized by references in the scientific literature and by two International Conferences devoted to the subject. This book sets the parameters of Mushroom Biology in a concise manner and also emphasizes trends and points out future directions which will lead to a greater utilization of mushrooms and mushroom products. The discipline was established to bring together persons who have in common scientific or commercial interests involving mushrooms. The authors' definition of mushroom is more broad than the usual mycological definition so that macrofungi other than Basidiomycetes can be included. Mushrooms may be edible, non-edible, poisonous or medicinal species, with hypogeous or epigeous fruiting bodies, and their texture may be fleshy or non-fleshy. Many aspects of Mushroom Biology are presented, including nutritional and medicinal uses, the role of mushrooms in bioremediation, biotechnology, and in the bioconversion of waste organic materials into forms that can enter the major nutrient cycles. Basic scientific studies involving mushroom species are also considered with an emphasis on genetics and breeding. Contents:Mushroom Biology:Introduction to Mushroom BiologyConcise Basics of Fungi as Background for Mushroom Biology:ClassificationBiology of FungiGeneral Principles of Production of Mushrooms and Mushroom Products:IntroductionMushroom ScienceMushroom BiotechnologyCurrent Developments in Mushroom Biology:Worldwide Trends Over the Past DecadeCurrent Activities. Readership: Graduate students, mycologists, mushroom specialists, nutritionists and pharmaceutical chemists. keywords:Mushroom Biology;Biotechnology;Mushrooms:Fungi;Cell/Molecular Biology;Mycology This text not only explores the breeding problems for Agaricus bisporus, the button mushroom, but approaches the subject in the context of the large range of edible mushrooms which are currently under commercial cultivation worldwide. From the background and general objectives of culture collection and breeding to the genetic systems of edible mushrooms and the molecular biological approaches to breeding, the coverage is in-depth and current. The applications of breeding programmes for specific purposes, including provision of a food source, production of high value fungal metabolites and upgrading of lignocellulosic wastes and wastewater treatment are also discussed.

Oyster mushroom, 1979-1987

Polysaccharides

Book Of Abstracts Of The 57th Annual Meeting Of The European Association For Animal Production

Journal of Mycopathological Research

Environmental Education and Information

Industrial Avenues and Prospects

Performance of Pleurotus Sajor-caju, Pleurotus Florida and Pleurotus Eous Using Different Grain and Straw SpawnsMushroom ResearchBangladesh Journal of MushroomOyster mushroom, 1979-1987182 citationsIndian Science AbstractsOyster MushroomJanuary 1970 - March 1997Environmental Education and InformationAdvances in Plant SciencesAn Introduction to MushroomBoD – Books on Demand

The focus of the ECE review programme is to help countries in transition to improve their individual and collective performance in environmental management. The ultimate goal is the promotion of sustainable development and the convergence of environmental conditions and policies throughout Europe. This review presents a detailed study on Armenia's environmental position and examines the framework for environmental policy and management, the management of pollution and natural resources and the economic and sectoral integration.

Issues in Animal Science and Research: 2013 Edition

Genetics and Breeding of Edible Mushrooms

Tropical Mushrooms

Performance of Pleurotus Sajor-caju, Pleurotus Florida and Pleurotus Eous Using Different Grain and Straw Spawns

Acta Botanica Indica

Pretreatment Methods in Anaerobic Digestion

The mushroom has a wide number of medicinal properties such as being an antioxidant, antimicrobial, anticancer, antidiabetic, immune enhancer, and also used for the treatment of various diseases such as anthelmintic, anti-inflammatory, antipyretics, etc. According to current information, there are approximately twelve-thousand species in the world, and out of them, 2000 species are reported as being edible. Around 35 edible mushroom varieties are cultivated commercially, whereas almost 200 wild species could be used for medicinal purposes. This book also covers the diversity of edible mushrooms and describes several applications as an alternative source for food production and clinical approach. This book includes:
• the diverse types of mushroom and their enzymatic activity
• importance of nutritional properties along with their food product development
• industrial and clinical applications of macro fungi, i.e., degradation of dyes, anticancer, antimicrobial, antioxidant, etc.

With contributions by numerous experts

Edible and Medicinal Mushrooms

Simulation Models, GIS and Nonpoint-source Pollution

Biological Nature and Cultivation Methods

Proceedings of the Indian Science Congress

Food Packaging and Preservation

This volume covers the most cutting-edge pretreatment processes being used and studied today for the production of biogas during anaerobic digestion processes using different feedstocks, in the most efficient and economical methods possible. As an increasingly important piece of the "energy pie," biogas and other biofuels are being used more and more around the world in every conceivable area of industry and could be a partial answer to the energy problem and the elimination of global warming.

Large scale cultivation of macrofungi is possible with fermentation, using easily accessible lignocellulosic agricultural residues applying economical methods to generate substantial biomass, food and biofuels. Bioconversion of lignocellulosic wastes by macrofungi generates value-added fungal nutritional biomass for humans and livestock. Besides commercial cultivation techniques, other topics covered in Advances in Macrofungi: Industrial Avenues and Prospects include: the healing potential of mushrooms, industrial opportunities, mycelium-based products, forest wild mushrooms and industrial applications of white rot fungi. This book reviews the industrial applications and uses of macrofungi. It encourages students and researchers to explore non-conventional sources of nutrition as well as bioactive metabolites to serve as nutraceuticals. It emphasizes the potential of macrofungi as a source of bioactive compounds to remedy human lifestyle diseases especially cancers and cardiovascular ailments along with immunostimulation potential by Cordyceps. This book emphasizes the role of on mushrooms as a source of cosmeceuticals, flavors, essence, scents and perfumes.

Bibliography of Agriculture

Indian Journal of Mycology and Plant Pathology

182 citations

Armenia – First Review

Biogas Production

Excerpta Medica

Buku ini berisi tentang bioprospek mikroba hutan tropis, dijelaskan prospeknya pada setiap bab secara detail mengenai topik khusus pemanfaatan mikroba hutan tropis tentang prospek bio-induksi, bio-healthy, bio-food security, bio-fertilizer, dan bioplastik. Penulis-penulis yang berkontribusi pada isi buku ini membidangi keahlian IPTEK tanaman dan mikroba seperti bidang bioteknologi tanaman, mikrobiologi hutan, mikologi, kimia organik, ilmu tanah, dan silvikultur. yang secara konsisten meneliti, mempelajari dan menyebarkanluaskan beberapa penemuannya tentang mikroba hutan, baik fungi, bakteri dan atau khamir. Penulis yang berkontribusi berasal 11 lembaga penelitian dan pendidikan dari dalam dan luar negeri, Perancis, Belgia, dan Jepang.

Comprehensive and timely, Edible and Medicinal Mushrooms: Technology and Applications provides the most up to date information on the various edible mushrooms on the market. Compiling knowledge on their production, application and nutritional effects, chapters are dedicated to the cultivation of major species such as Agaricus bisporus, Pleurotus ostreatus, Agaricus subrufescens, Lentinula edodes, Ganoderma lucidum and others. With contributions from top researchers from around the world, topics covered include: Biodiversity and biotechnological applications Cultivation technologies Control of pests and diseases Current market overview Bioactive mechanisms of mushrooms Medicinal and nutritional properties Extensively illustrated with over 200 images, this is the perfect resource for researchers and professionals in the mushroom industry, food scientists and nutritionists, as well as academics and students of biology, agronomy, nutrition and medicine.

Advances in Macrofungi

Bangladesh Journal of Mushroom

Environmental Performance Reviews

Mushroom Biology

Cultivation, Nutritional Value, Medicinal Effect, and Environmental Impact

Bioprospek mikroba hutan tropis Indonesia

Food Packaging and Preservation, Volume 9 in the Handbook of Food Bioengineering series, explores recent approaches to preserving and prolonging safe use of food products while also maintaining the properties of fresh foods. This volume contains valuable information and novel ideas regarding recently investigated packaging techniques and their implications on food bioengineering. In addition, classical and modern packaging materials and the impact of materials science on the development of smart packaging approaches are discussed. This book is a one-stop-shop for anyone in the food industry seeking to understand how bioengineering can foster research and innovation. Presents cutting technologies and approaches utilized in current and future food preservation for both food and beverages Offers research methods for the creation of novel preservatives and packaging materials to improve the quality and lifespan of preserved foods Features techniques to ensure the safe use of foods for longer periods of time Provides solutions of antimicrobial films and coatings for food packaging applications to enhance food safety and quality

This volume provides a clear understanding of how microbes, following their degradative processes, contribute maximally to the benefit of mankind through biotransformations of waste materials as well as a wide variety of health-risk compounds. The book contains twenty four chapters contributed by leading scientists from different parts of the world, covering various aspects of bioremediation of xenobiotics such as toxic, carcinogenic, teratogenic, and mutagenic compounds, which include halogenated aromatics, derivatives of heavy metals, microbial toxins, tannins, dyes, sulfur compounds of coal and petroleum and pesticides. The bioremediation of agricultural residue, industrial as well as municipal wastes, fuel oils, lubricants, natural rubber products, and other synthetic polymers, which pollute the environment substantially, also constitutes an important component of the book. All biotechnological aspects of microbial transformations pertaining to biodegradation/bioremediation of hazardous wastes, ranging from screening methods for microbes with degradative potential, processes of degradation, strain improvement for enhanced biodegradation and elimination of xenobiotics of health and environmental concern have been dealt with. The book intends to widen the scope of Applied Microbiology and Biotechnology in general and biotransformations in particular. It will provide an opportunity for scientists in the areas of biochemistry, food industry, environmental science and engineering and their implications in technologically feasible, environment friendly and economically viable bioremediation options. Also, it forms an interface between agro-industrial establishments and the academic world and will generate new thought provoking ideas for scientists of future generations for the safeguard of both human and animal health as well as the environment.

Concise Basics and Current Developments

Advances in Plant Sciences

Properties and Applications

Mushrooms

Antalya, Turkey, 17-20 September 2006

Biotechnology Applications

www.wagingenacademic.com/eaap2006

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EDIBLE MUSHROOMS & THEIR CULTIVATION

Mansfeld's Encyclopedia of Agricultural and Horticultural Crops

Indian Science Abstracts

An Introduction to Mushroom

Occupational health and industrial medicine

Mushroom Research

The book is an excellent compilation of chapters on fruitful applications of Biotechnology. The chapters have been authored by eminent scholars from India and abroad working on diverse disciplines related to Biotechnology. The book is an invaluable source of information on biosensors, microbial surfactants, enzyme immobilization, disease diagnosis, probiotics, protein biotechnology, bioleaching, photonic applications and other biotechnology applications. The book will be very useful for Undergraduate and Postgraduate students, research scholars and faculties in biotechnology, microbiology medical sciences and life sciences.

Since the publication of the first edition, important developments have emerged in modern mushroom biology and world mushroom production and products. The relationship of mushrooms with human welfare and the environment, medicinal properties of mushrooms, and the global marketing value of mushrooms and their products have all garnered great attent

Advances in Biological Treatment of Industrial Waste Water and their Recycling for a Sustainable Future

Current Vistas in Mushroom Biology and Production

Proceedings of the IIIrd Indian Mushroom Conference 2002, 6-7th March, 2002

(Except Ornamentals)

Technology and Applications

Journal of Ecology