

Concise Encyclopedia of Bioresource Technology

Ashok Pandey



Concise Encyclopedia Of Bioresource Technology

V. K. Joshi



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Concise Encyclopedia Of Bioresource Technology Ashok Pandey, 2005-01-01 *Concise Encyclopedia of Plant Pathology* Perumal Vidhyasekaran, 2004-04-15 An easy to use single reference source covering the full range of subject areas associated with plant pathology This comprehensive volume covers the entire field of plant pathology It does not merely define the numerous subjects covered 297 topics carefully arranged in 38 sections but describes them in detail Each section of this boo

Current Developments in Solid-state Fermentation Ashok Pandey, Carlos Ricardo Soccol, Christian Larroche, 2008-09-16 Over the period of last two decades there has been significant resurgence in solid state fermentation due to the numerous benefits it offers especially in the engineering and environmental aspects SSF has shown much promise in the development of several bioprocesses and products This resurgence gained further momentum during the last 5 6 years with the developments in fundamental and applied aspects A good deal of information has been generated in published literature and patented information Several commercial ventures have come up based on SSF in different parts of the world The contents are organized into four parts Part 1 deals with the General and Fundamentals aspects of SSF Part 2 deals with the production of bulk chemicals and products such as enzymes organic acids spores and mushrooms in SSF Part 3 is on the use of SSF for specialty chemicals such as gibberellic acid antibiotics and other pharmaceutically valuable secondary metabolites pigments and aroma compounds Part 4 deals with the use of SSF miscellaneous application such as SSF for food and feed applications agro industrial residues as substrates in SSF and the production of silage and vermicompost *Concise Encyclopedia of Science and Technology of Wine* V. K. Joshi, 2021-07-21 When asking the question what is wine there are various ways to answer Wine is extolled as a food a social lubricant an antimicrobial and antioxidant and a product of immense economic significance But there is more to it than that When did humans first start producing wine and what are its different varieties Are wines nutritious or have any therapeutic values do they have any role in health or are they simply intoxicating beverages How are their qualities determined or marketed and how are these associated with tourism Concise Encyclopedia of Science and Technology of Wine attempts to answer all these questions and more This book reveals state of the art technology of winemaking describing various wine regions of the world and different cultivars used in winemaking It examines microbiology biochemistry and engineering in the context of wine production The sensory qualities of wine and brandy are explored and the composition nutritive and therapeutic values and toxicity are summarized Selected references at the end of each chapter provide ample opportunity for additional study Key Features Elaborates on the recent trends of control and modeling of wine and the techniques used in the production of different wines and brandies Focuses on the application of biotechnology especially genetic engineering of yeast bioreactor technological concepts enzymology microbiology killer yeast stuck and sluggish fermentation etc Illustrates the biochemical basis of wine production including malolactic fermentation Examines marketing tourism and the present status of the wine industry Concise Encyclopedia of

Science and Technology of Wine contains the most comprehensive yet still succinct collection of information on the science and technology of winemaking With 45 chapters contributed by leading experts in their fields it is an indispensable treatise offering extensive details of the processes of winemaking The book is an incomparable resource for oenologists food scientists biotechnologists postharvest technologists biochemists fermentation technologists nutritionists chemical engineers microbiologists toxicologists organic chemists and the undergraduate and postgraduate students of these disciplines

Cellulases in the Biofuel Industry Pratima Bajpai, 2022-10-08 Cellulases in the Biofuel Industry discusses how the properties of cellulases affects the quality of the biofuels produced Heralded as the solution to humanity's energy problem and the savior of the world's climate extensive research is being carried out on biofuels but there are still gaps in our understanding This book presents cost effective and current scenarios for cellulase production in the biofuel industry including the most recent advancements for obtaining cellulases with higher activity on pre treated biomass substrates by screening and sequencing new organisms engineering cellulases with improved properties and by identifying proteins that can stimulate cellulases The mechanism and efficiency of the cellulase enzyme system on cellulose is discussed with the specific classification of each cellulase enzyme as well as explanations of the limitation of cellulases in terms of their production processes efficiency and practical applications to biofuels Various approaches to improve the production and efficiency of the cellulase enzyme system are evaluated along with the current limitations that are hampering cost effective production of cellulase and guidance on how these limitations might be resolved Includes different approaches to improve the production and efficiency of the cellulase enzyme system Discusses the current limitations hampering the cost effective production of cellulases Provides case studies that include essential information for those looking to adapt cellulases technology

Advances in Biological Treatment of Industrial Waste Water and their Recycling for a Sustainable Future Ram Lakhan Singh, Rajat Pratap Singh, 2018-10-12 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

Fermentation Processes Engineering in the Food Industry Carlos Ricardo Soccol,Ashok Pandey,Christian Larroche,2013-03-27 With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology fermentation technology for industrial applications has developed enormously in recent years Reflecting these advances Fermentation Processes Engineering in the Food Industry explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors The book describes the benefits of fermented foods in human health in both dairy and non dairy products and beverages It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients Exploring a host of important topics in engineering fermentation processes the book covers topics such as Methods and techniques for the isolation improvement and preservation of the microbial cultures used in the food fermentation industry The fundamentals of fermentation processes modes of fermentation and the principles of upstream operation Physical and chemical factors that affect fermentation processes Different types of fermenters employed in submerged and solid state fermentation Unitary operations for solid liquid separation concentration and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied An essential reference for all food sector professionals this volume surveys critical trends in the food beverage and additive industry and explores the sustainability of these processes

Developing and Extending Sustainable Agriculture Charles A. Francis,George Bird,Raymond Poincelot,2024-11-01 Get the latest sustainable agriculture practices and keep an eye on the future Developing and Extending Sustainable Agriculture A New Social Contract explores the challenges faced by today s farmers and ranchers to provide practical strategies to develop a twenty first century system of sustainable agriculture that is economically sound environmentally compatible and socially acceptable This comprehensive look at the current state of farming and ranching presents leading authorities discussing concepts and approaches in sustainable agriculture such as crop rotations integrated pest management alternative sources of nutrients to maintain productivity and rotational grazing systems Presently there is a trend toward a more industrial agriculture and a global food system that will bring long term negative impacts If farmers look thoughtfully toward the future alternatives are now available to help solve these problems to provide agricultural sustainability for generations to come Developing and Extending Sustainable Agriculture A New Social Contract provides a model for integrated research and outreach to everyone interested in sustainable development A sensible framework of practical short term strategies are combined with visionary

long term plans to provide viable approaches to sustain agriculture secure our food system and develop a more equitable society for the future The text includes several tables and figures extensive references and comprehensive bibliographies Topics in Developing and Extending Sustainable Agriculture A New Social Contract include the evolution of the concept of equitable and sustainable development on farm research farmer to farmer education IPM integrated pest management soil management managed grazing whole farm planning including economic analysis training for sustainable agriculture motivation theory and research to foster positive sustainable development organic farming productivity the future of sustainable agriculture much much more Developing and Extending Sustainable Agriculture A New Social Contract is enlightening horizon expanding reading perfect for educators students government decision makers cooperative extension educators specialists administrators citizen members of county extension boards and administrators in land grant universities

Bioinformatics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2013-03-31 Bioinformatics Concepts Methodologies Tools and Applications highlights the area of bioinformatics and its impact over the medical community with its innovations that change how we recognize and care for illnesses Provided by publisher

Edible Medicinal and Non-Medicinal Plants Lim T. K.,2012-01-03 This multi compendium is a comprehensive illustrated and scientifically up to date work covering more than a thousand species of edible medicinal and non medicinal plants This work will be of significant interest to scientists researchers medical practitioners pharmacologists ethnobotanists horticulturists food nutritionists agriculturists botanists herbalogists conservationists teachers lecturers students and the general public Topics covered include taxonomy botanical name and synonyms common English and vernacular names origin and distribution agro ecological requirements edible plant part and uses botany nutritive and medicinal pharmacological properties medicinal uses and current research findings non edible uses and selected cited references Each volume covers about a hundred species arranged according to families and species Each volume has separate scientific and common names indices and separate scientific and medical glossaries

Global Perspectives on Sustainable Forest Management Dr. Clement A. Okia,2012-04-25 This book is dedicated to global perspectives on sustainable forest management It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources The book is divided into two sections the first section with thirteen chapters deals with the forest management aspects while the second section with five chapters is dedicated to forest utilization This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management It will be an interesting and helpful resource to managers specialists and students in the field of forestry and natural resources management

Manual of Environmental Microbiology Christon J. Hurst,Ronald L. Crawford,Jay L. Garland,David A. Lipson,2007-05-14 The most definitive manual of microbes in air water and soil and their impact on human health and welfare Incorporates a summary of the latest methodology used to study the activity and fate of

microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments Features a section on biotransformation and biodegradation Serves as an indispensable reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology **Applied Microbiology** Sanjai Saxena, 2015-03-19 The book is oriented towards undergraduates science and engineering students postgraduates and researchers pursuing the field of microbiology biotechnology chemical biochemical engineering and pharmacy Various applications of microorganisms have been covered broadly and have been appropriately reflected in depth in 12 different chapters The book begins with an insight to the diverse niche of microorganisms which have been explored and exploited in development of various biotechnological products and green processes Further how these microorganisms have been genetically modified to improve the desired traits for achieving optimal production of microbially derived products is discussed in the second chapter Major route of production of microbially derived products and processes is through fermentation technology and therefore due emphasis on different aspects of fermentation technology has been given in the subsequent chapter The development and deployment of biopesticides and biofertilizers which find tremendous application have been separately discussed under agricultural applications Application of microbes for the removal of pollutants recovery of metals and oils has also been discussed under environmental applications The role of microbial systems in development of fermented foods and beverages have also been discussed in Chapter 6 The application of microbes in production of commodity chemicals and fine chemicals has also been discussed in separate chapters A chapter has been dedicated to the tremendous applications of microbially produced enzymes in different industrial sectors Another unique facet of this book is explaining the different methods by which desired traits of microorganisms have been improved for their efficacious and economical exploitation in the industry A chapter is dedicated to exploitation of microorganisms in development of vaccines for human and veterinary use Finally the last chapter discusses the role of immobilization in optimization of industrial processes and development of microbial biosensors for industrial applications Thus this book is a holistic approach providing information on the present applications of microorganisms *Studies on Pollution Mitigation*, 2010 With reference to India

Biotechnology for Agro-Industrial Residues Utilisation Poonam Singh-Nee Nigam, Ashok Pandey, 2009-05-19 Residues from agriculture and the food industry consist of many and varied wastes in total accounting for over 250 million tonnes of waste per year in the UK alone Biotechnological processing of these residues would allow these waste products to be used as a resource with tremendous potential An extensive range of valuable and usable products can be recovered from what was previously considered waste including fuels feeds and pharmaceutical products In this way Biotechnology can offer many viable alternatives to the disposal of agricultural waste producing several new products in the process This book presents up to date information on a biotechnology approach for the utilisation of agro industrial residues presenting

chapters with detailed information on materials and bioconversion technology to obtain products of economic importance The production of industrial products using agro industrial residues as substrates The biotechnological potential of agro industrial residues for bioprocesses Enzymes degrading agro industrial residues and their production Bioconversion of agro industrial residues Written by experts in Biotechnological processing of Agro Industrial Residues this book will provide useful information for academic researchers and industry scientists working in biotechnology waste management agriculture and the food industry

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies Vinod Kumar,Nitin Kamboj,Temin Payum,Jogendra Singh,Pankaj Kumar,2020-12-05 Advances in

Environmental Pollution Management Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution induced impacts on various aspects of our environment The book also contains novel methods and tools for the monitoring and treatment of produced wastewater

Valorization of Food Processing By-Products M. Chandrasekaran,2012-08-30 Biotechnology has immense potential for resolving environmental problems and augmenting food production Particularly it offers solutions for converting solid wastes into value added items In food processing industries that generate voluminous by products and wastes valorization can help offset growing environmental problems and facilitate the sustainable use of available natural resources Valorization of Food Processing By Products describes the potential of this relatively new concept in the field of industrial residues management The debut book in CRC Press s new Fermented Foods and Beverages Series this volume explores the current state of the art in food processing by products with respect to their generation methods of disposal and problems faced in terms of waste and regulation It reviews the basic fundamental principles of waste recycling including process engineering economics and the microbiology and biochemical and nutritional aspects of food processing It discusses fermentation techniques available for valorization of food processing by products enzyme technologies and analytical techniques and instrumentation Individual chapters examine the by products of plant based and animal based food industries The book also delves into socioeconomic considerations and environmental concerns related to food processing by products It surveys research gaps and areas ripe for further inquiry as well as future trends in the field An essential reference for researchers and practitioners in the food science and food technology industry this volume is also poised to inspire those who wish to take on valorization of food by products as a professional endeavor A contribution toward sustainability valorization makes maximum use of agricultural produce while employing low energy and cost effective processes

Handbook of Plant-Based Fermented Food and Beverage Technology Y. H. Hui,E. Özgül Evranuz,2012-05-17 Fermented food can be produced with inexpensive ingredients and

simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest among scientists and food processors Handbook of Plant Based

Fermented Food and Beverage Technology Second Edition is an up to date reference exploring the history microorganisms quality assurance and manufacture of fermented food products derived from plant sources The book begins by describing fermented food flavors manufacturing and biopreservation It then supplies a detailed exploration of a range of topics including Soy beverages and sauce soymilk and tofu Fruits and fruit products including wine capers apple cider and juice mangos olive fruit and noni fruits Vegetables and vegetable products including red beet juice eggplant olives pickles sauerkraut and jalape o peppers Cereals and cereal products including fermented bread sourdough bread rice noodles boza Chinese steamed buns whiskey and beer Specialty products such as balsamic vinegar palm wine cacha a brick tea shalgam coconut milk and oil coffee and probiotic nondairy beverages Ingredients such as proteolytic bacteria enzymes and probiotics Fermented food products play a critical role in cultural identity local economy and gastronomical delight With contributions from over 60 experts from more than 20 countries the book is an essential reference distilling the most critical information on this food sector

Handbook of Plant-Based Fermented Food and Beverage Technology, Second Edition Y. H.

Hui,E. Özgül Evranuz,2012-05-17 Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet especially in rural households and village communities worldwide

Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest among scientists and food processors Handbook of Plant Based Fermented Food and Beverage Technology Second Edition is an up to date reference exploring the history microorganisms quality assurance and manufacture of fermented food products derived from plant sources The book begins by describing fermented food flavors manufacturing and biopreservation It then supplies a detailed exploration of a range of topics including Soy beverages and sauce soymilk and tofu Fruits and fruit products including wine capers apple cider and juice mangos olive fruit and noni fruits Vegetables and vegetable products including red beet juice eggplant olives pickles sauerkraut and jalape o peppers Cereals and cereal products including fermented bread sourdough bread rice noodles boza Chinese steamed buns whiskey and beer Specialty products such as balsamic vinegar palm wine cacha a brick tea shalgam coconut milk and oil coffee and probiotic nondairy beverages Ingredients such as proteolytic bacteria enzymes and probiotics Fermented food products play a critical role in cultural identity local economy and gastronomical delight With contributions from over 60 experts from more than 20 countries the book is an essential reference distilling the most critical information on this food sector

Environmental Protection Strategies for Sustainable Development Abdul Malik,Elisabeth

Grohmann,2011-09-18 The environment of our planet is degrading at an alarming rate because of non sustainable urbanization industrialization and agriculture Unsustainable trends in relation to climate change and energy use threats to public health poverty and social exclusion demographic pressure and ageing management of natural resources biodiversity loss land use and transport still persist and new challenges are arising Since these negative trends bring about a sense of

urgency short term action is required whilst maintaining a longer term perspective The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy making This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils bioremediation of pesticides from soil and waste water toxic metals from soil biological treatment of pulp and paper industry wastewater sustainable solutions for agro processing waste management solid waste management on climate change and human health environmental impact of dyes and its remediation Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples biofilm formation by the environmental bacteria biochemical attributes to assess soil ecosystem sustainability application of rhizobacteria in biotechnology role of peroxidases as a tool for the decolorization and removal of dyes and potential of biopesticides in sustainable agriculture It offers a unique treatment of the subject linking various protection strategies for sustainable development describing the inter relationships between the laboratory and field eco toxicologist the biotechnology consultant environmental engineers and different international environmental regulatory and protection agencies

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