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Nanobiotechnology Socio-economic and Eco-biological Dimensions in Resource use and Conservation Magnetolectric Composites Biointeractions of Nanomaterials Advances in Computing and Information Technology Processes and Phenomena on the Boundary Between Biogenic and Abiogenic Nature Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants Biodiversity of the Himalaya: Jammu and Kashmir State Crop Improvement Innovation in Electrical Power Engineering, Communication, and Computing Technology Advances in Computing and Intelligent Systems Functional Chitosan Green Polymer Composites Technology Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019) Seaweeds as Plant Fertilizer, Agricultural Biostimulants and Animal Fodder Synthetic Seeds Isolation and Structure Elucidation of Bioactive Compounds (Dedicated to the memory of the late Professor Charles D. Hufford) Biosurfactants Keratin as a Protein Biopolymer Intelligent Computing and Innovation on Data Science CRC Concise Encyclopedia of Nanotechnology Microbiological Advancements for Higher Altitude Agro-Ecosystems & Sustainability Plant Tissue Culture: Propagation, Conservation and Crop Improvement Smart Innovations in Communication and Computational Sciences Padhuka'S Students' Handbook On Advanced Accounting (For Ca Inter-New Sly)/13Ed Ecophysiology and Responses of Plants under Salt Stress Food

Process Engineering and Quality Assurance
Contemporary Computing Information Systems
Problems and Solutions in Advanced Accounting for CA Intermediate
Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing
What is Gender? Inorganic Nanomaterials for Supercapacitor Design
Priming and Pretreatment of Seeds and Seedlings
Glimpses of Love, Life, and Beyond
Horizons in Bioprocess Engineering
Problems and Solutions in Accounting for CA Intermediate
Enterprise Information Systems and Strategic Management
Academic Library Impact
Microbial Factories

Nanobiotechnology

The book presents the latest advances and research findings in the fields of computational science and communication. The areas covered include smart innovation; systems and technologies; embedded knowledge and intelligence; innovation and sustainability; advanced computing; and networking and informatics. It also focuses on the knowledge-transfer methodologies and the innovation strategies employed to make these effective. This fascinating compilation appeals to researchers, academics and engineers around the globe.

Socio-economic and Eco-biological Dimensions in Resource use

and Conservation

An examination of the widespread application of nano materials in biology, medicine, and pharmaceuticals and the accompanying safety concerns, Bio-interactions of Nano Materials addresses the issues related to toxicity and safety of nano materials and nano systems. It covers the interactions in biological systems and presents various tools and meth

Magnetoelectric Composites

This book gathers selected papers presented at the International Conference on Advancements in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

Biointeractions of Nanomaterials

Among electrode materials, inorganic materials have received vast consideration

owing to their redox chemistry, chemical stability, high electrochemical performance, and high-power applications. These exceptional properties enable inorganic-based materials to find application in high-performance energy conversion and storage. The current advances in nanotechnology have uncovered novel inorganic materials by various strategies and their different morphological features may serve as a rule for future supercapacitor electrode design for efficient supercapacitor performance. Inorganic Nanomaterials for Supercapacitor Design depicts the latest advances in inorganic nanomaterials for supercapacitor energy storage devices. Key Features:

- Provides an overview on the supercapacitor application of inorganic-based materials.
- Describes the fundamental aspects, key factors, advantages, and challenges of inorganic supercapacitors.
- Presents up-to-date coverage of the large, rapidly growing, and complex literature on inorganic supercapacitors.
- Surveys current applications in supercapacitor energy storage.
- Explores the new aspects of inorganic materials and next-generation supercapacitor systems.

Advances in Computing and Information Technology

This volume comprises the proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing. It brings together content from academicians, researchers, and industry experts in areas of Wireless Communication and Image Processing. The volume provides a snapshot of current

progress in computational creativity and a glimpse of future possibilities. The proceedings include two kinds of paper submissions: (i) regular papers addressing foundation issues, describing original research on creative systems development and modeling; and (ii) position papers describing work-in-progress or research directions for computational creativity. This work will be useful to professionals and researchers working in the core areas of wireless communications and image processing.

Processes and Phenomena on the Boundary Between Biogenic and Abiogenic Nature

The improvement of crop species has been a basic pursuit since cultivation began thousands of years ago. To feed an ever increasing world population will require a great increase in food production. Wheat, corn, rice, potato and few others are expected to lead as the most important crops in the world. Enormous efforts are made all over the world to document as well as use these resources. Everybody knows that the introgression of genes in wheat provided the foundation for the “Green Revolution”. Later also demonstrated the great impact that genetic resources have on production. Several factors are contributing to high plant performance under different environmental conditions, therefore an effective and complementary use of all available technological tools and resources is needed to

meet the challenge.

Recent Trends in Biotechnology and Therapeutic Applications of Medicinal Plants

This book covers both basic and high-level concepts relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Biodiversity of the Himalaya: Jammu and Kashmir State

This book presents basic concepts, methodologies and applications of biotechnology for the conservation and propagation of aromatic, medicinal and other economic plants. It caters to the needs and challenges of researchers in plant biology, biotechnology, the medical sciences, pharmaceutical biotechnology and pharmacology areas by providing an accessible and cost-effective practical approach to micro-propagation and conservation strategies for plant species. It also includes illustrations describing a complete documentation of the results and research into particular plant species conducted by the authors over the past 5 years. Plant Biotechnology has been a subject of academic interest for a considerable time. In recent years, it has also become a useful tool in agriculture and medicine, as well as a popular area of biological research. Current economic growth is globally projected in a highly positive manner, but the challenges many countries face with regard to food, feed, malnutrition, infectious diseases, the newly identified life-style diseases, and energy shortages, all of which are worsened by an ever-deteriorating environment, continue to pull the growth digits back. The common thread that connects all of the above challenges is biotechnology, which could provide many answers. Molecular biology and biotechnology have now become an integral part of tissue culture research. The tremendous impact generated by genetic engineering and consequently of transgenics now allows us to manipulate plant genomes at will. There has indeed been a rapid development in this area with major successes in both developed and developing countries. The book introduces several new and exciting areas to

researchers who are unfamiliar with plant biotechnology and also serves as a review of ongoing research and future directions for scholars. The book highlights numerous methods for in vitro propagation and utilization of techniques in raising transgenics to help readers reproduce the experiments discussed.

Crop Improvement

New syllabus full coverage in student-friendly format. About 1000+ Solved illustrations and Q&A included. Principles explained effectively for concept clarity. Step-by - step solutions & working notes for practical questions formats tables and charts for easy understanding. Treasure trove of professional exam question. Updated as per latest syllabus of ICAI.

Innovation in Electrical Power Engineering, Communication, and Computing Technology

This book is divided into four parts that outline the use of science and technology for applications pertaining to chemical and bioprocess engineering. The book endeavors to help academia, researchers, and practitioners to use the principles and tools of Chemical and Bioprocess Engineering in a pertinent way, while attempting to point out the novel thoughts associated with the brain storming

concepts encountered. As an example, the ability to use case studies appropriately is more important, to most practitioners.

Advances in Computing and Intelligent Systems

The book represents a collection of papers presented at VI International Symposium "Biogenic - abiogenic interactions in natural and anthropogenic systems" that was held on 24-27 September 2018 in Saint Petersburg (Russia). Papers in this book cover a wide range of topics connecting with interactions between biogenic and abiogenic components in lithosphere, biosphere and technosphere. The main regarding topics are following: methods for studying the interactions between biogenic and abiogenic components; geochemistry of biogenic-abiogenic systems; biomineralization and nature-like materials and technologies; medical geology; biomineralogy and organic mineralogy; biomineral interactions in soil; biodeterioration of natural and artificial materials; biomineral interactions in extreme environment.

Functional Chitosan

This new book, Food Process Engineering and Quality Assurance, provides an abundance of valuable new research and studies in novel technologies used in

food processing and quality assurance issues of food. The 750-page book gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. The food process related application of engineering technology involves interdisciplinary teamwork, which, in addition to the expertise of interdisciplinary engineers, draws on that of food technologists, microbiologists, chemists, mechanical engineers, biochemists, geneticists, and others. The processes and methods described in the book are applicable to many areas of the food industry, including drying, milling, extrusion, refrigeration, heat and mass transfer, membrane-based separation, concentration, centrifugation, fluid flow and blending, powder and bulk-solids mixing, pneumatic conveying, and process modeling, monitoring, and control. Food process engineering know-how can be credited with improving the conversion of raw foodstuffs into safe consumer products of the highest possible quality. This book looks at advanced materials and techniques used for, among other things, chemical and heat sterilization, advanced packaging, and monitoring and control, which are essential to the highly automated facilities for the high-throughput production of safe food products. With contributions from prominent scientists from around the world, this volume provides an abundance of valuable new research and studies on novel technologies used in food processing and quality assurance issues. It gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. Special emphasis is given to the processing of fish, candelilla, dairy, and bakery products. Rapid detection of

pathogens and toxins and application of nanotechnology in ensuring food safety are also emphasized. Key features:

- Presents recent research development with applications
- Discusses new technology and processes in food process engineering
- Provides several chapters on candelilla (which is frequently used as a food additive but can also be used in cosmetics, drugs, etc.), covering its characteristics, common uses, geographical distribution, and more

Green Polymer Composites Technology

This book is dedicated to modeling and application of magnetoelectric (ME) effects in layered and bulk composites based on magnetostrictive and piezoelectric materials. Currently, numerous theoretical and experimental studies on ME composites are available but few on the development and research of instruments based on them. So far, only investigation of ME magnetic field sensors has been cited in the existing literature. However, these studies have finally resulted in the creation of low-frequency ME magnetic field sensors with parameters substantially exceeding the characteristics of Hall sensors. The book presents the authors' many years of experience gained in ME composites and through creation of device models based on their studies. It describes low-frequency ME devices, such as current and position sensors and energy harvesters, and microwave ME devices, such as antennas, attenuators, filters, gyrators, and phase shifters.

Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019)

Presented in a question-answer format, "Problems and Solutions in Advanced Accounting for CA Intermediate" is specially designed for the students who are preparing for Group-II, Paper 5: Advanced Accounting. The content has been carefully carved out to cover the problems that are most frequently asked in examinations and are aligned to the syllabus. Care has been taken to include problems of simple as well as complex nature and solutions to most of the problems have been provided in a step-by-step manner which makes it easier for the student to understand the concepts and fetch marks. Salient Features: ✓ Content is strictly aligned to the topical flow as guided by the syllabus of ICAI. ✓ Coverage of Questions from RTPs and MTPs of ICAI examination. ✓ Thoroughly updated content includes latest changes in Accounting and the Companies Act, 2013. ✓ Questions from previous year ICAI examinations, Revisionary Test Papers (RTPs), Mock Test Papers (MTPs), and other professional bodies have been incorporated to provide enhanced understanding and extensive practice to the students. ✓ Each chapter is further subdivided in various sections to develop the concepts in a methodical manner.

Seaweeds as Plant Fertilizer, Agricultural Biostimulants and

Animal Fodder

Thanks to their unique properties, chitosan and chitosan-based materials have numerous applications in the field of biomedicine, especially in drug delivery. This book examines biomedical applications of functional chitosan, exploring the various functions and applications in the development of chitosan-based biomaterials. It also describes the chemical structure of chitosan and discusses the relationship between their structure and functions, providing a theoretical basis for the design of biomaterials. Lastly, it reviews chemically modified and composite materials of chitin and chitosan derivatives for biomedical applications, such as tissue engineering, nanomedicine, drug delivery, and gene delivery.

Synthetic Seeds

This book constitutes selected papers from the 14th European, Mediterranean, and Middle Eastern Conference, EMCIS 2017, held in Coimbra, Portugal, in September 2017. EMCIS is focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline following sound research methodologies that lead to results of measurable impact. The 37 full and 16 short papers presented in this volume were carefully reviewed and selected from a total of 106 submissions. They are organized in sections on big data and

Semantic Web; digital services, social media and digital collaboration; e-government; healthcare information systems; information systems security and information privacy protection; IT governance; and management and organizational issues in information systems.

Isolation and Structure Elucidation of Bioactive Compounds (Dedicated to the memory of the late Professor Charles D. Hufford)

This book highlights the efforts made by distinguished scientific researchers worldwide to meet two key challenges: i) the limited reserves of polluting fossil fuels, and ii) the ever-increasing amounts of waste being generated. These case studies have brought to the foreground certain innovative biological solutions to real-life problems we now face on a global scale: environmental pollution and its role in deteriorating human health. The book also highlights major advances in microbial metabolisms, which can be used to produce bioenergy, biopolymers, bioactive molecules, enzymes, etc. Around the world, countries like China, Germany, France, Sweden and the US are now implementing major national programs for the production of biofuels. The book provides information on how to meet the chief technical challenges – identifying an industrially robust microbe and cheap raw material as feed. Of the various possibilities for generating bioenergy, the most

attractive is the microbial production of biohydrogen, which has recently gained significant recognition worldwide, due to its high efficiency and eco-friendly nature. Further, the book highlights factors that can make these bioprocesses more economical, especially the cost of the feed. The anaerobic digestion (AD) process is more advantageous in comparison to aerobic processes for stabilizing biowastes and producing biofuels (hydrogen, biodiesel, 1,3-propanediol, methane, electricity), biopolymers (polyhydroxyalkanoates, cellulose, exopolysaccharides) and bioactive molecules (such as enzymes, volatile fatty acids, sugars, toxins, etc.) for biotechnological and medical applications. Information is provided on how the advent of molecular biological techniques can provide greater insights into novel microbial lineages. Bioinformatic tools and metagenomic techniques have extended the limits to which these biological processes can be exploited to improve human welfare. A new dimension to these scientific works has been added by the emergence of synthetic biology. The Big Question is: How can these Microbial Factories be improved through metabolic engineering and what cost targets need to be met?

Biosurfactants

The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory,

methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes.

Keratin as a Protein Biopolymer

This book is a comprehensive introduction to "green" or environmentally friendly polymer composites developed using renewable polymers of natural origin such as starch, lignin, cellulose acetate, poly-lactic acid (PLA), polyhydroxylalkanoates (PHA), polyhydroxybutyrate (PHB), etc., and the development of modern technologies for preparing green composites with various applications. The book also discusses major applications of green polymer composites in industries such as medicine, biotechnology, fine chemicals and engineering.

Intelligent Computing and Innovation on Data Science

Is gender something done to us by society, or something we do? What is the relationship between gender and other inequalities? What is Gender? explores these complex and important questions, helping readers to critically analyse how women's and men's lives are shaped by the society in which they live. The book offers a comprehensive account of trends in sociological thinking, from a material and economic focus on gender inequalities to the debates about meaning initiated by the linguistic or cultural turn. The book begins by questioning simplistic biological conceptions of gender and goes on to evaluate different theoretical frameworks for explaining gender, as well as political approaches to gender issues. The cultural turn is also examined in relation to thinking about how gender is related to other forms of inequality such as class and 'race'. The book is up-to-date and broad in its scope, drawing on a range of disciplines, such as: sociology, psychoanalysis, masculinity studies, literary criticism, feminist political theory, feminist philosophy and feminist theory.

CRC Concise Encyclopedia of Nanotechnology

The book provides an overview of current trends in biotechnology and medicinal plant sciences. The work includes detailed chapters on various advance

biotechnological tools involved in production of phytoactive compounds of medicinal significance. Some recent and novel research studies on therapeutic applications of different medicinal plants from various geographical regions of the world have also been included. These studies report the antimicrobial activity of various natural plant products against various pathogenic microbial strains. Informative chapters on recent emerging applications of plant products such as source for nutraceuticals and vaccines have been integrated to cover latest advances in the field. This book also explores the conservation aspect of medicinal plants. Thus, chapters having comprehensively compiled in vitro conservation protocols for various commercially important rare, threatened and endangered medicinal plants were provided in the present book.

Microbiological Advancements for Higher Altitude Agro-Ecosystems & Sustainability

This book introduces the reader to synthetic or artificial seeds, which refer to alginate encapsulated somatic embryos, vegetative buds or any other micropropagules that can be used as seeds and converted into plantlets after propagating under in vitro or in vivo conditions. Moreover, synthetic seeds retain their potential for regeneration even after low-temperature storage. The production of synthetic or artificial seeds using micropropagules opens up new

vistas in agricultural biotechnology. Encapsulated propagules could be used for in vitro regeneration and mass multiplication at reasonable cost. In addition, these propagules may be used for germplasm preservation of elite plant species and the exchange of plant materials between national and international laboratories. This book offers state-of-the-art findings on methods, applications and prospects of synthetic or artificial seeds.

Plant Tissue Culture: Propagation, Conservation and Crop Improvement

This book will shed light on the effect of salt stress on plants development, proteomics, genomics, genetic engineering, and plant adaptations, among other topics. Understanding the molecular basis will be helpful in developing selection strategies for improving salinity tolerance. The book will cover around 25 chapters with contributors from all over the world.

Smart Innovations in Communication and Computational Sciences

This book presents the outcomes of the 2017 national workshop and international conference organized by CEENR of ISEC, Bengaluru and Assam University Silchar.

Addressing the threats to biodiversity and sustainable development resulting from the impacts of human induced pressures on ecosystems and global-warming-driven climate change is a major challenge. It requires increased knowledge and an enhanced information base in order to devise local policies to improve the adaptive capacity of vulnerable socio-ecological systems in developing countries. In this context, the book presents research that has the potential to benefit the environment and empower communities. It appeals to researchers investigating diverse aspects of socio-ecological-biological systems to create strategies for resource use, conservation and management to ensure sustainability.

Padhuka'S Students' Handbook On Advanced Accounting (For Ca Inter-New Sly)/13Ed

This book combines the contributions from the experts of material science, molecular biology, toxicology bio-organic and bio-inorganic chemistry, toxicologists and environmental and food technology etc. to fathom the full scope of current and future of developments in the area of Nanobiotechnology. Provides brief overview of nanobiotechnology for general readers who are not familiar with the research fields and presents a strong overview of most of the critical areas in field This book can also be used as text book for graduate students as an essential reference material, and as an reading material for general readers having a curiosity in

Nanobiotechnology.

Ecophysiology and Responses of Plants under Salt Stress

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12–13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Food Process Engineering and Quality Assurance

The main effects of Seaweed extracts (Ascophyllum, Fucus, Sargassum, Saccorhiza, Laminaria, Gelidium and others), when used as agricultural fertilizers, are better seed germination and higher quality fruit production, with longer shelf life; better use of soil nutrients; more productive crops and plants with greater resistance to unfavorable environmental conditions. Algae also have a long history

of use as animal feed. They have a highly variable composition depending on the species, collection season and habitat, and on external conditions such as water temperature, light intensity and nutrient concentration in water. In relation to ruminal fermentation, a high variability of the digestibility values was found among seaweed species and cannot be attributed only to the composition of different nutrients of the algae. The role of marine algae for reduction of methane production is discussed with particular emphasis on novel algae-based feed strategies that target minimal methane emissions without affecting the functionality of the microbiota and overall animal productivity. Key Features: Sustainable Agriculture Natural Feeding Nutrients Liquid Seaweed Agricultural Biostimulants Natural Pesticides

Contemporary Computing

The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology. The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the

Information Systems

The Himalaya, a global biodiversity hotspot, sustains about one-fifth of the humankind. Nestled within the north-western mountain ranges of the Himalaya, the Jammu and Kashmir (J&K) State harbours more than half of the biodiversity found in the Indian Himalaya. The wide expanse of State, spread across the subtropical Jammu, through the temperate Kashmir valley, to the cold arid Ladakh, is typical representative of the extensive elevational and topographical diversity encountered in the entire Himalaya. This book, the most comprehensive and updated synthesis ever made available on biodiversity of the J&K State, is a valuable addition to the biodiversity literature with global and regional relevance. The book, arranged into 7 parts, comprises of 42 chapters contributed by 87 researchers, each of whom is an expert in his/her own field of research. The precious baseline data contained in the book would form the foundation for assessing current status of knowledge about the bioresources, identify the knowledge gaps, and help prioritization of conservation strategies to steer the sustainable use of biodiversity in this Himalayan region. Given the breadth of topics covered under the banner of biodiversity in this book, it can surely serve as a model for documentation of biodiversity in other regions of the world. The book will be of immense value to all those who, directly or indirectly, have to deal with biodiversity, including students, teachers, researchers, naturalists, environmentalists, resource managers, planners, government agencies, NGOs and the general public at large.

Problems and Solutions in Advanced Accounting for CA Intermediate

This book constitutes the first part of the refereed proceedings of the Third International Conference, IC3 2010, held in Noida, India, in August 2010. The 23 revised full papers presented were carefully reviewed and selected from numerous submissions.

Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing

Stresses the Potential Applications of Biosurfactants in Various Industries
Environmental concerns and a demand for sustainable chemical production have become important issues in recent years. As a result, microbial biosurfactant-producing systems are gaining momentum as potential replacements for chemical surfactants. *Biosurfactants: Production and Utilization—Processes, Technologies, and Economics* explores the production, utilization, and industrial/economic use of biosurfactants in modern biotechnology. This book represents comprehensive material developed by contemporary experts in the field. Focusing on research and developments within the last 20 years, it highlights relevant changes in the industry. It provides a detailed account of the current applications of

biosurfactants, considers the potential for further environmental, biological, and industrial applications, and concentrates on surfactants and organisms with possibilities for future use. Emphasizes Process Scale-Up and Commercialization Factoring in the industrial application of biosurfactant production based on renewable resources, the book determines how biosurfactants can enhance or replace the properties of chemically synthesized surface-active agents. It discusses moving beyond the laboratory scale of research and development and on to the industrial scale of commercial interest. The book consists of 17 chapters and features expert authors discussing topics that include: Understanding the regulatory processes controlling the production of biosurfactants Strategies for feasible commercial biosurfactant production Examples of cost analysis based on published information The viability of industrial applications in food, cosmetics, and pharmaceuticals Patents for future trends Biosurfactants: Production and Utilization—Processes, Technologies, and Economics contains special sections devoted to the overview and evaluation of specific patents relating to biosurfactants, and methods for production of biosurfactants on a laboratory and industrial/commercial scale. It also presents novel and proven applications for biosurfactants from a number of biotechnology laboratories and research facilities around the world. In addition, it introduces the reader to a variety of real-world industry techniques readily applicable for practical use.

What is Gender?

This book introduces readers to both seed treatment and seedling pretreatments, taking into account various factors such as plant age, growing conditions and climate. Reflecting recent advances in seed priming and pretreatment techniques, it demonstrates how these approaches can be used to improve stress tolerance and enhance crop productivity. Covering the basic phenomena involved, mechanisms and recent innovations, the book offers a comprehensive guide for students, researchers and scientists alike, particularly Plant Physiologists, Agronomists, Environmental Scientists, Biotechnologists, and Botanists, who will find essential information on physiology and stress tolerance. The book also provides a valuable source of information for professionals at seed companies, seed technologists, food scientists, policymakers, and agricultural development officers around the world.

Inorganic Nanomaterials for Supercapacitor Design

The book explores the challenges and opportunities associated with high-altitude agro-ecosystems and the factors that influence them. It discusses the various indigenous agricultural practices and approaches, as well as the microbiology of mountain & hill agro-ecosystems, providing a comprehensive overview of the various factors that control the microbiome at high altitudes. The contributions examine microbiological advances, such as use of “omics” technologies for hill

agriculture and environmental sustainability, and explore the use of nanotechnology for agricultural and environmental sustainability at higher altitudes. The book also describes various aspects of low-temperature microbiology in the context of high-altitude farming and environmental sustainability.

Priming and Pretreatment of Seeds and Seedlings

This book features selected high-quality papers from the International Conference on Innovation in Electrical Power Engineering, Communication, and Computing Technology (IEPCCT 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on 13–14 December 2019. Presenting innovations in power, communication, and computing, it covers topics such as mini, micro, smart and future power grids; power system economics; energy storage systems; intelligent control; power converters; improving power quality; signal processing; sensors and actuators; image/video processing; high-performance data mining algorithms; advances in deep learning; and optimization methods.

Glimpses of Love, Life, and Beyond

Horizons in Bioprocess Engineering

Best practices developed by the profession in capturing and emphasizing academic libraries' contributions to student learning, success, and experience.

Problems and Solutions in Accounting for CA Intermediate

We are very pleased to introduce the Book Version of our Special Issue in Molecules dedicated to the memory of the late Professor Dr. Charles D. Hufford. The issue has been a huge success, with 22 full-length peer-reviewed papers and a tribute by Professor Alice M. Clark. Authors, reviewers, and collaborators from many countries across the world have contributed to this endeavour, and we are truly grateful to all. This Special Issue is representative of the broad impact that “Charlie” had on the field of bioactive natural products. This Special Issue comprises papers from Professor Hufford’s former students, colleagues, and collaborators throughout the world who have utilized a wide array of state-of-the-art techniques to examine diverse natural sources to isolate and identify a variety of natural products with a wide spectrum of biological activities, including some new microbial transformations and insights into bioactive molecules. Many new bioactive compounds are described and reported here for the first time. Bioactivities reported include cytotoxicity, antimicrobial activity, anti-inflammatory activity, antileishmanial activity, antitrypanosomal activity, antimalarial activity, analgesic activity, and beneficial liver activities, just to name a few. This Special Issue will undoubtedly have a lasting impact on the field of bioactive natural

products, as exemplified by the career of Dr. Hufford. Lastly, without the timely and outstanding contributions from all of you, this Special Issue would not have been possible. We thank you all very much for your contributions and your time devoted to this Special Issue in memory of a special person. Finally, we express our gratitude and thanks to the journal *Molecules* and their excellent team of expert reviewers for giving us the support and opportunity to make this Special Issue a huge success!

Enterprise Information Systems and Strategic Management

Accounts being a tough practical subject, students find it difficult to keep up with the theoretical concepts and practical problems at the same time. There remains a need for the book which helps students practice ample problems on every topic and be exam ready. Keeping this in mind, the authors present *Problems and Solutions in Accounting* to cater to the needs of CA Intermediate students appearing for Group-I, Paper 1: Accounting as per the new syllabus scheme of ICAI. The book has been neatly organised into Sections and Sub-sections each dedicated to fundamental topics of Accounting. For easy navigation through a chapter, the number of problems dedicated to a topic and the type of problems covered have been listed in detail at the beginning. Salient Features: ✓ Content is strictly aligned to the topical flow as guided by the syllabus of ICAI. ✓ Coverage of Questions from RTPs and MTPs of ICAI examination. ✓ Thoroughly updated content includes latest

changes in Accounting and the Companies Act, 2013. ✓ Questions from previous year ICAI examinations, Revisionary Test Papers (RTPs), Mock Test Papers (MTPs), and other professional bodies have been incorporated to provide enhanced understanding and extensive practice to the students. ✓ Each chapter is further subdivided in various sections to develop the concepts in a methodical manner.

Academic Library Impact

This book is designed for quick reference in Information Technology and strategic management. It perfectly fits for the curriculum for IPCC paper 7. Explained in very easy language and readability is fantastic.

Microbial Factories

This book provides information about the sources, structure, and properties of keratin as well as its applications. The extraction from different biomass sources (e.g. feathers, hairs, nails, horn, hoof, and claws) as well as the characterization methods of these extracted materials are explained. The development of bioproducts from keratins is challenging and limited since they are neither soluble in polar solvents nor in non-polar solvents. Therefore, the utilization of different microorganisms for the degradation of keratin is also discussed. The main aim of

this book is to highlight the unique features of keratin and to update readers with the possible prospects to develop various value-added products from keratins. The book is highly interesting to researchers working in industry and academia on bioproducts, tissue engineering, biocomposites, biofilm, and biofibers.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES &
HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR
LITERARY FICTION NON-FICTION SCIENCE FICTION