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Applied Plant Biotechnology for Improving Resistance to Biotic Stress - Palmiro Poltronieri 2019-09-17
Applied Plant Biotechnology for Improvement of Resistance to Biotic Stress applies biotechnology insights that seek to improve plant genomes, thus helping them achieve higher resistance and optimal hormone signaling to increase crop yield. The book provides an analysis of the current state-of-the-art in plant biotechnology as applied to improving resistance to biotic stress. In recent years, significant progress has been made towards understanding the interplay between plants and their hosts, particularly the role of plant immunity in regulating, attenuating or neutralizing invading pathogens. As a result, there is a great need to integrate these insights with methods from biotechnology. Applies biotechnology insights towards improving plant genomes, achieving higher resistance and optimizing hormone signaling to increase crop yield Presents the most modern techniques, investigations, diagnostic tools and assays to monitor and detect contaminating agents in crops, such as grape, tomato, coffee and stone fruit Provides encyclopedic coverage of genes, proteins, interaction networks and mechanisms by which plants and hosts seek survival Discusses the methods available to make crops resistant and tolerant to disease without decreased yield or food production Provides insights for policymakers into the difficulties faced by scientific researchers in the use of biotechnology intervention, transgenes and genetically modified sequences
Advances in Treatment of Recurrent and Metastatic Nasal-Cranial Base Tumors - Yumin Wang 2022-05-03

From Basic Research to New Tools and Challenges for the Genotoxicity Testing of Nanomaterials - Valérie Fessard 2021-03-24
This Special Issue presents studies on the genotoxicity of nanomaterials. Although nanomaterials provide multiple benefits in a wide range of applications, challenges remain in addressing strong concerns about their risks to the environment and human health. As a result of inconsistencies among published results and diverging conclusions, the understanding of nanomaterial exposure and toxicity remains unclear. Determining whether these materials cause DNA damage—the first step in carcinogenesis—must be a priority in testing. In this book, readers will find recent publications on the genotoxic response to a broad range of nanomaterials, the impact of physico-chemical characteristics, safe-by-design and new developed tools.
Plant Stress - Swarnendu Roy 2022
This book presents an inclusive approach to deal with plant stresses in light of recent technological advances. As we have entered into a new decade, researchers and scientists should review and evaluate the recent

findings in the field of plant stress management and visualize what we need to focus upon in the near future to increase crop yield. Above all, global climate changes present the greatest challenges of all time for plant scientists. In this context, the book highlights the recent findings and future perspectives in crop improvement to the faculties, scientists, research scholars, and postgraduate students. Major features of the book include an inclusive approach in understanding the mechanism of stress tolerance; recent advances and innovations in the field of allied disciplines like microbiology, molecular biology, biotechnology, plant breeding, nanobiotechnology, etc., for improving plant stress tolerance; and illustrative sketches to convey the mechanism and strategies of stress alleviation.

Computer Vision – ACCV 2016 - Shang-Hong Lai 2017-03-10

The five-volume set LNCS 10111-10115 constitutes the thoroughly refereed post-conference proceedings of the 13th Asian Conference on Computer Vision, ACCV 2016, held in Taipei, Taiwan, in November 2016. The total of 143 contributions presented in these volumes was carefully reviewed and selected from 479 submissions. The papers are organized in topical sections on Segmentation and Classification; Segmentation and Semantic Segmentation; Dictionary Learning, Retrieval, and Clustering; Deep Learning; People Tracking and Action Recognition; People and Actions; Faces; Computational Photography; Face and Gestures; Image Alignment; Computational Photography and Image Processing; Language and Video; 3D Computer Vision; Image Attributes, Language, and Recognition; Video Understanding; and 3D Vision.

The Russian Federation in Global Knowledge Warfare - Holger Mölder 2021-07-24

This book examines Russian influence operations globally, in Europe, and in Russia's neighboring countries, and provides a comprehensive overview of the latest technologies and forms of strategic communication employed in hybrid warfare. Given the growing importance of comprehensive information warfare as a new and rapidly advancing type of international conflict in which knowledge is a primary target, the book examines Russia's role in Global Knowledge Warfare. The content is divided into three parts, the first of which addresses conceptual issues such as the logic of information warfare, the role of synthetic media, and Russia's foreign policy concepts, including the impact of the COVID-19 pandemic on influence operations. The second part analyzes technological, legal and strategic challenges in modern hybrid warfare, while the third focuses on textual, cultural and historical patterns in information warfare, also from various regional (e.g. the Western Balkans, Romania, Ukraine, and the Baltic) perspectives. The book is primarily intended for scholars in the fields of international relations, security and the military sciences who are interested in Russian foreign policy and influence operations, but also their impact on the global security environment.

Natural Products for Cancer Chemoprevention - John M. Pezzuto 2020-04-03

This book discusses the efficacy of various naturally occurring chemopreventive agents in preventing or delaying cancer. It focuses on the holistic chemopreventive concept, demonstrating the relevant response is the combined effect of a series of compounds that alone have been shown to have some effect in different experimental models. Written by leading experts in the field, the contributions provide details of research on various chemopreventive agents. Offering insights into the unique molecular targets and mechanisms, safety issues, molecular efficacy, and occurrence in nature of these compounds, the book is a valuable resource for all scientists working in biomedicine, and specifically in cancer research.

The Official Guide for GMAT Quantitative Review 2017 with Online Question Bank and Exclusive Video - Graduate Management Admission Council 2016-06-07

Includes access code for online content.

Natural Medicines - Dilip Ghosh 2019-07-18

Globally, natural medicine has been considered as an important alternative to modern allopathic medicine. Although natural medicines are popular in society, only limited medicinal herbs have been scientifically evaluated for their potential in medical treatment. This book

connects various aspects of the complex journey from traditional medicine to modern medicine. It provides information on topics including global regulations and regulatory hurdles, diverse nutritional challenges and potential health benefits, novel food innovations especially seed-to-clinic approaches, and future trends. FEATURES • Provides information on sustainable use of natural products in the development of new drugs and clinically validated herbal remedies • Discusses issues on evaluation and clinical aspects of herbal medicine, promotion and development, safety evaluation, metabolite profiling, biomarker analysis, formulation, and stability testing • Describes traditional uses of natural medicine through identification, isolation and structural characterization of their active components • Elucidates mechanisms of biological action, adverse effects and identification of their molecular targets of natural medicine • Multidisciplinary appeal including chemistry, pharmacology, pharmacognosy and cell and molecular biology, as well as integration with clinical medicine This book serves as an essential guide for individuals researching natural medicines, and industry employees in areas including drug development, pharmacology, natural products chemistry, clinical efficacy, ethnopharmacology, pharmacognosy, phytotherapy, phyto-technology and herbal science.

Handbook of Engineering Practice of Materials and Corrosion - Jung-Chul (Thomas) Eun 2020-09-04

This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements, including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage, and offers readers industry-tested best practices, rationales, and case studies.

Microbiome Stimulants for Crops - James White 2021-04-17

Microbiome Stimulants for Crops: Mechanisms and Applications provides the latest developments in the real-world development and application of these crop management alternatives in a cost-effective, yield protective way. Sections address questions of research, development and application, with insights into recent legislative efforts in Europe and the United States. The book includes valuable information regarding mechanisms and the practical information needed to support the growing microbial inoculant and biostimulant industry, thus helping focus scientific research in new directions. Provides methods for finding and testing endophytic and growth promotional microbes Explains the mechanisms of microbes and other biostimulant function in promoting plant growth Evaluates methods for treatments of plants with microbes and microbiome stimulants Identifies areas for new research

Histone Deacetylase Inhibitors in Combinatorial Anticancer Therapy - Shabir Ahmad Ganai 2020-11-23

This book reviews the latest developments in the design, synthesis, and molecular mechanism of action of Histone Deacetylase (HDAC) inhibitors in the context of potential cancer therapy. HDAC inhibitors are emerging as promising anticancer drug molecules that promote growth arrest, differentiation and apoptosis of cancer cells with tumor selective toxicity. The book begins with an overview of various epigenetic modifying enzymes that are involved in cancer transition and progression; before exploring the potential of HDACs in cancer treatment. It provides a classification of HDAC inhibitors based on their structural attributes, and addresses HDAC-induced cytotoxicity.. Lastly, it discusses and assesses the rationale behind therapies that combine HDAC inhibitors with other anticancer agents to treat solid tumors. Given its scope, it offers a valuable resource for all researchers, clinicians, and students working in formulation, drug discovery, oncology, and personalized medicine.

Nanoparticles in Cancer Therapy: Novel Concepts, Mechanisms and Applications - Qingxin Mu 2019-04-03

Since the invention of nanomedicine decades ago, considerable progresses have been made, especially with cancer as a target. Nanoparticles have been proven to be powerful imaging tools or potent

agents for cancer diagnosis, treatment and prevention. Active research spread from fundamental research to clinical investigations. This topic intends to cover several important aspects in this field including nanocarrier development, gene delivery, intrinsically active nanoparticles, tumor microenvironment, immunology, and toxicity.

Phenotypic Switching - Herbert Levine 2020-06-10

Phenotypic Switching: Implications in Biology and Medicine provides a comprehensive examination of phenotypic switching across biological systems, including underlying mechanisms, evolutionary significance, and its role in biomedical science. Contributions from international leaders discuss conceptual and theoretical aspects of phenotypic plasticity, its influence over biological development, differentiation, biodiversity, and potential applications in cancer therapy, regenerative medicine and stem cell therapy, among other treatments. Chapters discuss fundamental mechanisms of phenotypic switching, including transition states, cell fate decisions, epigenetic factors, stochasticity, protein-based inheritance, specific areas of human development and disease relevance, phenotypic plasticity in melanoma, prostate cancer, breast cancer, non-genetic heterogeneity in cancer, hepatitis C, and more. This book is essential for active researchers, basic and translational scientists, clinicians, postgraduates and students in genetics, human genomics, pathology, bioinformatics, developmental biology, evolutionary biology and adaptive opportunities in yeast. Thoroughly addresses the conceptual, experimental and translational aspects that underlie phenotypic plasticity Emphasizes quantitative approaches, nonlinear dynamics, mechanistic insights and key methodologies to advance phenotypic plasticity studies Features a diverse range of chapter contributions from international leaders in the field

Incompleteness: Donald Trump, Populism and Citizenship - B. Nyamnjoh 2022-01-01

This is a study of how Donald J. Trump, his populist credentials notwithstanding, borrows without acknowledgment and stubbornly refuses to come to terms with his indebtedness. Taken together with mobility and conviviality, the principle of incompleteness enables us to distinguish between inclusionary and exclusionary forms of populism, and when it is fuelled by ambitions of superiority and zero-sum games of conquest. Nyamnjoh challenges the reader to reflect on how stifling frameworks of citizenship and belonging predicated upon hierarchies of humanity and mobility, and driven by a burning but elusive quest for completeness, can be constructively transcended by humility and conviviality inspired by taking incompleteness seriously. Nyamnjoh argues that the logic and practice of incompleteness is a healthy antidote to name-calling and scapegoating others as undesirable outsiders, depending on the brand of populism at play. Recognising incompleteness also helps to question sterile and problematic binaries such as those between elites and the impoverished masses among whom populists go to fish for political visibility, prominence and success.

Oncology in the Precision Medicine Era - Ravi Salgia 2019-12-17

This volume comprehensively reviews oncology in the precision medicine era of personalized care, latest developments in the field, and indications and clinical trials for the treatment of cancer with targeted therapies, immunotherapy, and epigenetic modulators. It thoroughly addresses concerns of various types of cancers including cancers of the head and neck, lung, colon, esophagus, bladder, pancreas, and breast; melanoma; multiple myeloma; hepatocellular carcinoma; renal cell carcinoma; and sarcomas. It is organized and written in a format that is easy to follow for both clinicians and non-clinical scientists interested in personalized medicine. Chapters cover the identification of the clinical problem and summary of recent findings, tumor biology and heterogeneity, genomics, examples of simple and complex cases, biological pathways, future clinical trials, and financial considerations. Oncology in the Precision Medicine Era: Value-Based Medicine will serve as a useful resource for medical oncologists and healthcare providers tailoring medicine to the needs of the individual patient, from prevention and diagnosis to treatment and follow up.

Biomaterials for Brain Therapy and Repair - Sara Pedron 2019-02-06

Prevalence of brain related diseases is expected to increase significantly

in the next decades. Therefore, there is a vital need to develop effective, personalized models of human brain that can provide information about brain development, and the unique neurobiology of brain disorders. The use of biomaterials can play a strategic role for the future understanding and treatment of complex CNS diseases. Three-dimensional brain cultures have shown promise in disease modelling, cell transplantation and modulation of tissue repair.

Diseases of Horticultural Crops: Diagnosis and Management - J. N. Srivastava 2022-04-28

This fourth volume of this 4-volume set discusses the key diseases, typical symptoms, and management strategies of several economically important plants. Each chapter presents an introduction along with a detailed account of symptoms, causal organisms, disease cycles, epidemiology, and management of a selection of major plantation crops, medicinal crops, and mushrooms. The book features chapters contributed by eminent professionals in the field, who have incorporated their own experience and knowledge along with an overview of the recent developments in their fields. They provide information on the diagnostic tools and management techniques needed for such plantation crops as areca nut (or betel nut), cocoa (or chocolate), coconut, coffee, and tea; such medicinal crops as isabgol and senna; along with several kinds of mushrooms. The volume also includes photographs that show symptoms of important diseases, which are helpful in disease diagnosis. The volumes provide an abundance of information for understanding and managing plant diseases, with emphasis on diagnostic techniques. The collection includes: Volume 1: Fruit Crops Volume 2: Vegetable Crops Volume 3: Ornamental Plants and Spice Crops Volume 4: Important Plantation Crops, Medicinal Crops, and Mushrooms

Cellular Mechanics and Biophysics - Claudia Tanja Mierke 2020-10-30

This book focuses on the mechanical properties of cells, discussing the basic concepts and processes in the fields of immunology, biology, and biochemistry. It introduces and explains state-of-the-art biophysical methods and examines the role of mechanical properties in the cell/protein interaction with the connective tissue microenvironment. The book presents a unique perspective on cellular mechanics and biophysics by combining the mechanical, biological, physical, biochemical, medical, and immunological views, highlighting the importance of the mechanical properties of cells and biophysical measurement methods. The book guides readers through the complex and growing field of cellular mechanics and biophysics, connecting and discussing research findings from different fields such as biology, cell biology, immunology, physics, and medicine. Featuring suggestions for further reading throughout and addressing a wide selection of biophysical topics, this book is an indispensable guide for graduate and advanced undergraduate students in the fields of cellular mechanics and biophysics.

Purinergic Signaling in Health and Disease - Eric Boué-Grabot 2020-03-13

Non-coding RNAs in Gastrointestinal and Gynecological Cancers: New Insights Into the Mechanisms of Cancer Therapeutic Resistance - Peixin Dong 2022-07-13

Introductory Quantum Mechanics - Paul R. Berman 2017-12-26

This book presents a basic introduction to quantum mechanics. Depending on the choice of topics, it can be used for a one-semester or two-semester course. An attempt has been made to anticipate the conceptual problems students encounter when they first study quantum mechanics. Wherever possible, examples are given to illustrate the underlying physics associated with the mathematical equations of quantum mechanics. To this end, connections are made with corresponding phenomena in classical mechanics and electromagnetism. The problems at the end of each chapter are intended to help students master the course material and to explore more advanced topics. Many calculations exploit the extraordinary capabilities of computer programs such as Mathematica, MatLab, and Maple. Students are urged to use these programs, just as they had been urged to use calculators in the past. The treatment of various topics is rather complete, in that most

steps in derivations are included. Several of the chapters go beyond what is traditionally covered in an introductory course. The goal of the presentation is to provide the students with a solid background in quantum mechanics.

Peripheral Nerve Regeneration - Giovanna Gambarotta 2019-12-24

Perinatal Derivatives and the Road to Clinical Translation, Volume I - Ornella Parolini 2021-09-30

NEET UG Physics Paper Study Notes |Chapter Wise Note Book For NEET Aspirants | Complete Preparation Guide with Self Assessment Exercise - EduGorilla Prep Experts 2022-09-15

• Best Selling Book in English Edition for NEET UG Physics Paper Exam with objective-type questions as per the latest syllabus. • Increase your chances of selection by 16X. • NEET UG Physics Paper Study Notes Kit comes with well-structured Content & Chapter wise Practice Tests for your self evaluation • Clear exam with good grades using thoroughly Researched Content by experts.

The Global Community Yearbook of International Law and Jurisprudence 2018 - Giuliana Ziccardi Capaldo 2019-08-29

The Global Community Yearbook is a one-stop resource for all researchers studying international law generally or international tribunals specifically. The Yearbook has established itself as an authoritative source of reference on global legal issues and international jurisprudence. It includes analysis of the most significant global trends in a way that allows readers to monitor the development of the global legal order from several perspectives. The Global Community Yearbook publishes annually in a volume of carefully chosen primary source material and corresponding expert commentary. The general editor, Professor Giuliana Ziccardi Capaldo, employs her vast expertise in international law to select excerpts from important court opinions and to choose experts from around the world to contribute essay-guides, which illuminate those cases. Although the main focus is recent case law from the major international tribunals and regional courts, the first four parts of each year's edition features expert articles by renowned scholars who address broader themes in current and future developments in international law and global policy, themes that appear throughout the case law of the many courts covered by the series as a whole. The Global Community Yearbook has thus become not just an indispensable window to recent jurisprudence: the series now also serves to prepare researchers for the issues facing emerging global law. The 2018 edition both updates readers on the important work of long-standing international tribunals and introduces readers to more novel topics in international law. The Yearbook continues to provide expert coverage of the Court of Justice of the European Union and diverse tribunals from the International Court of Justice (ICJ) to criminal tribunals such as the International Criminal Court (ICC) and the Tribunals for the Former Yugoslavia and Rwanda, to economically based tribunals such as ICSID and the WTO Dispute Resolution panel. This edition contains original research articles on the development and analysis of the concept of global law and the views of the global law theorists such as: whether the Paris Declaration of 2017 and the Oslo Recommendation of 2018 deals with enhancing their institutions' legitimacy; how to reconcile human rights, trade law, intellectual property, investment and health law with the WTO dispute settlement panel upholding Australia's tobacco plain packaging measure; Israel's acceptance of Palestinian statehood contingent upon prior Palestinian "demilitarization" is potentially contrary to pertinent international law; and a proposal to strengthen cooperation between the ECJ and National Courts in light of the failure of the dialogue between the ECJ and the Italian Constitutional Court on the interpretation of Article 325 of the Treaty on the Functioning of the European union. The Yearbook provides students, scholars, and practitioners alike a valuable combination of expert discussion and direct quotes from the court opinions to which that discussion relates, as well as an annual overview of the process of cross-fertilization between international courts and tribunals. The Yearbook provides students, scholars, and practitioners alike a valuable combination of expert discussion and direct quotes from the court opinions to which that

discussion relates, as well as an annual overview of the process of cross-fertilization between international courts and tribunals and a section focusing on the thought of leading international law scholars on the subject of the globalization. This publication can also be purchased on a standing order basis.

Immunological Implications and Molecular Diagnostics of Genitourinary Cancer - Moulay Mustapha Ennaji 2022-10-07

Immunological Implications and Molecular Diagnostics of Genitourinary Cancer updates on recent accomplishments, unifying concepts, and future challenges in the study of tumor-associated immune cells, emphasizing genitourinary cancers. The presence of inflammatory immune cells in human tumors raise a fundamental question: How do cancer cells avoid destruction by immune attack? In principle, tumor development can be controlled by cytotoxic innate and adaptive immune cells, however, as tumors develop from neoplastic tissue to clinically detectable tumors, cancer cells evolve different mechanisms. This book covers research on the immunological implications of genitourinary cancer with a comprehensive view, especially surrounding diagnosis and cellular mechanisms. Discusses the impact of the immune system on the initiation, progression and treatment of cancer Provides insights on the important role of the suppressor genes and oncogenes in genitourinary cancers Shows the advantages of combining clinical issues of urologic cancers with immunological techniques, like immunohistochemistry and immunofluorescence Demonstrates the implications genitourinary cancer has on the human innate immune system

Freight Transport and Distribution - Tolga Bektas 2017-06-19

This book serves as a primer on freight transportation and logistics, providing a general and broad coverage of concepts, mathematical models and methodologies available for freight transportation planning at strategic, tactical and operational levels. It is aimed at graduate students, and is also a reference book for practitioners in the field. The book includes preliminaries, such as mathematical modeling and optimisation algorithms. The book also features case studies and practical real-life examples to illustrate applications of the concepts and models covered, and to encourage a hands-on and a practical approach. The author has taught and published extensively in the field and draw on state-of-the-art scientific research. He has also been part of a number of practical research projects, which underpin the real life examples in the book.

Beneficial Microbes Alleviate Climatic Stresses in Plants - Ying Ma 2019-07-30

This Research Topic addresses the mechanisms by which beneficial soil microbes, such as fungi and bacteria, protect their host plant from ‘climatic stresses’ that are increasing due to climate change. We will highlight 1) recent progress in fundamental research, 2) applied studies aimed at promoting sustainable agriculture and environmental remediation, and 3) emerging biotechnologies that promote crop adaptation to climate change. Plants respond to various climatic stresses such as drought, salinity, elevated CO2, and extreme temperatures. These responses induce changes at the molecular, cellular, and physiological levels that restrict the establishment, growth, and development of the plant. Understanding these changes has become an important research goal due to concerns about the adverse effects of climatic stresses on agriculture sustainability, global food security, and even plant-based remediation technologies. Some beneficial soil microorganisms, such as arbuscular mycorrhizal fungi and plant growth promoting bacteria, are able to protect and promote the growth of their host plants by acting as bioprotectants (via induced systemic resistance), biopesticides (via antibiotic functions) and phytostimulators (via triggering hormonal signaling networks). Plant adaptation to various climatic stresses is dynamic and involves complex cross-talk within the regulatory network (e.g. transcription factors, kinase cascades, and signaling molecules). However, the detailed molecular, cellular and physiological mechanisms underlying plant–beneficial microbe interactions in climatic stress adaptation remain largely unknown.

Atmospheric Air Pollution and Its Environmental and Health Effects - Qiyuan Wang 2022-11-04

Engineering Signal Sensors Based on Reprogrammed CRISPR Technologies - Yuchen Liu 2021-10-25

Molecular Mechanisms of Pathogen-Driven Infectious and Neoplastic Diseases - Giulia De Falco 2021-07-21

Risk Assessment and Risk-Driven Quality Assurance - Jürgen Großmann 2017-04-21

This book constitutes the thoroughly refereed conference proceedings of the Fourth International Workshop on Risk Assessment and Risk-Driven Quality Assurance, RISK 2016, held in conjunction with ICTSS 2016, in Graz, Austria, in October 2016. The revised 9 full papers were carefully reviewed and selected from 11 submissions. They focus on research studying, developing and evaluating innovative techniques, tools, languages and methods risk assessment and risk-driven quality engineering. The papers are organized topical sections: security risk management; security risk analysis; risk-based testing.

30 Years NEET Chapter-wise & Topic-wise Solved Papers PHYSICS (2017 - 1988) 12th Edition - Disha Experts 2017-07-11

• NEET Chapter-wise + Topic-wise Solved Papers PHYSICS is the thoroughly revised & updated 12th edition and it contains the past year papers of NEET 2017 to 1988 distributed in 28 Topics. • The Questions have been arranged from 2017 to 1988 such that the students encounter the latest questions first. Further each chapter has been further divided into 3-4 topics each. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book also contains NEET 2013 along with the Karnataka NEET 2013 paper. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 1600+ MILESTONE PROBLEMS IN PHYSICS.

Role of Sex Steroids and Their Receptors in Cancers - Pia Giovannelli 2022-11-22

Bioactive Natural Products for Pharmaceutical Applications - Dilipkumar Pal 2020-12-14

This book covers the recent innovations relating to various bioactive natural products (such as alkaloids, glycosides, flavonoids, anthraquinones, steroids, polysaccharides, tannins and polyphenolic compounds, volatile oils, fixed oils, fats and waxes, proteins and peptides, vitamins, marine products, camptothecin, piperines, carvacrol, gedunin, GABA, ginsenosides) and their applications in the pharmaceutical fields related to academic, research and industry.

Value-Added Biocomposites - Malinee Sriariyanun 2021-09-06

Value-Added Biocomposites: Technology, Innovation, and Opportunity explores advances in research, processing, manufacturing, and novel applications of biocomposites. It describes the current market situation, commercial competition, and societal and economic impacts and advantages of substituting biocomposites for conventional composites, including natural fibers and bioplastics. FEATURES Discusses manufacturing and processing procedures that focus on improving physical, mechanical, thermal, electrical, chemical, and biological properties and achieving required specifications of downstream industries and customers Analyzes the wide range of available base materials and fillers of biocomposites and bioplastics in terms of the strength and weaknesses of materials and economic potential in the market Displays special and unique properties of biocomposites in different market sectors Showcases the insight of expert scientists and engineers with first-hand experience working with biocomposites across various industries Covers environmental factors, life cycle assessment, and waste recovery Combining technical, economic, and environmental topics, this work provides researchers, advanced students, and industry professionals a holistic overview of the value that biocomposites add across a variety of engineering applications and how to balance research and development with practical results.

Exploring the Potential of Particle Radiotherapy: Helium, Neutrons,

Carbon, and Other Heavy Ions - Timothy Dean Malouff 2021-09-27

Novel Combination Therapies for the Treatment of Solid Cancers - Khalid A. El Sayed 2021-12-22

Microorganisms in Saline Environments: Strategies and Functions - Bhoopander Giri 2019-07-25

This book gathers the latest findings on the microbial ecology of saline habitats, plant-microbe interactions under saline conditions, and saline soil reclamation for agricultural use. The content is divided into four main parts: Part I outlines the definition of salinity, its genesis and impacts, and microbial diversity in saline habitats. Part II deals with impact of salinity on microbial and plant life/health. Part III highlights plant – microbe interactions in saline environments, and Part IV describes strategies for mitigation and reclamation of saline soils. The salinization of arable land is steadily increasing in many parts of the world. An excessive concentration of soluble salts (salinity) in soils or irrigation water adversely affects plant growth and survival. This problem is exacerbated in arid and semiarid areas due to their low precipitation and high evaporation rates. In turn, poor management practices and policies for using river water for the irrigation of agriculture crops often lead to the secondary salinization of soils. Considering the growing demands of a constantly expanding population, understanding the microbial ecology and interactions under saline conditions and their implications for sustainable agriculture is of utmost importance. Providing both an essential review of the status quo and a future outlook, this book represents a valuable asset for researchers, environmentalists and students working in microbiology and agriculture.
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