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[Mountain Ecosystems](#) Oct 01 2019

Shellfish Processing and Preservation Jun 01 2022 Shellfish is a broad term that covers various aquatic mollusks, crustaceans and echinoderms that are used as food. They have economic and ecological importance and have been consumed as food for centuries. Shellfish provide high quality protein with all the dietary amino acids essential for maintenance and growth of the human body. Shellfish are a major component of global seafood production, with shellfish aquaculture rapidly growing in recent years. There are many different processing methods used across the world. Shellfish are very perishable foods and must be preserved just after catching or harvesting. This makes the preservation of seafood a critical issue in terms of quality and human health. To date there have been a number of books on seafood processing and preservation, but all of them have been mostly focused on fish. Shellfish Processing and Preservation is the first reference work to focus specifically on shellfish, providing comprehensive coverage of the production methods, biological makeups and preservation methods of all major shellfish species. Individual sections focus on crustaceans such as shrimps and prawns, crabs and lobsters plus molluscs including mussels, scallops and oysters. Cephalopods such as squid and octopus are also covered in depth. For each species processing and preservation methods such as chilling, freezing, canning and curing are examined, plus the important safety aspects specific to each shellfish type. Shellfish Processing and Preservation is an essential publication for any researchers or industry professionals in search of a singular and up-to-date source for the processing and preservation of shellfish.

[Encyclopedia of Marine Biotechnology](#) Sep 11 2020 A keystone reference that presents both up-to-date research and the far-reaching applications of marine biotechnology Featuring contributions from 100 international experts in the field, this five-volume encyclopedia provides comprehensive coverage of topics in marine biotechnology. It starts with the history of the field and delivers a complete overview of marine biotechnology. It then offers information on marine organisms, bioprocess techniques, marine natural products, biomaterials, bioenergy, and algal biotechnology. The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals, cosmetics, and nutraceuticals. Each topic in [Encyclopedia of Marine Biotechnology](#) is followed by 10-30 subtopics. The reference looks at algae cosmetics, drugs, and fertilizers; biodiversity; chitins and chitosans; aeropylsin-1, toluquinol, astaxanthin, and fucoxanthin; and algal and fish genomics. It examines neuro-protective compounds from marine microorganisms; potential uses and medical management of neurotoxic phycotoxins; and the role of metagenomics in exploring marine microbiomes. Other sections fully explore marine microbiology, pharmaceutical development, seafood science, and the new biotechnology tools that are being used in the field today. One of the first encyclopedic books to cater to experts in marine biotechnology Brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena Offers clear explanations accompanied by color illustrations of the techniques and applications discussed Contains studies of the applications of marine biotechnology in the field of biomedical sciences Edited by an experienced author with contributions from internationally recognized experts from around the globe [Encyclopedia of Marine Biotechnology](#) is a must-have resource for researchers, scientists, and marine biologists in the industry, as well as for students at the postgraduate and graduate level. It will also benefit companies focusing on marine biotechnology, pharmaceutical and biotechnology, and bioenergy.

XXII DAE High Energy Physics Symposium Aug 30 2019 These proceedings gather invited and contributed talks presented at the XXII DAE-BRNS High Energy Physics (HEP) Symposium, which was held at the University of Delhi, India, on 12-16 December 2016. The contributions cover a variety of topics in particle physics, astroparticle physics, cosmology and related areas from both experimental and theoretical perspectives, namely (1) Neutrino Physics, (2) Standard Model Physics (including Electroweak, Flavour Physics), (3) Beyond Standard Model Physics, (4) Heavy Ion Physics & QCD (Quantum Chromodynamics), (5) Particle Astrophysics & Cosmology, (6) Future Experiments and Detector Development, (7) Formal Theory, and (8) Societal Applications: Medical Physics, Imaging, etc. The DAE-BRNS High Energy Physics Symposium, widely considered to be one of the leading symposiums in the field of Elementary Particle Physics, is held every other year in India and supported by the Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE), India. As many as 400 physicists and researchers attended the 22nd Symposium to discuss the latest advances in the field. A poster session was also organized to highlight the work and findings of young researchers. Bringing together the essential content, the book offers a valuable resource for both beginning and advanced researchers in the field.

Participatory Natural Resource Management May 20 2021 With reference to India.

ASSESSMENT OF BUSINESS PROFITS Jul 02 2022 A Comprehensive and Practical Guide on Assessment of Profits from Business * Emerging trends in assessment of profit. * Challenges to book profit. * Profitability ratios. * Additions and deductions. * Deemed profits and gains. * Export profit. * Presumptive income. * Protective assessment. * Assessment in search and seizure cases under the Block Assessment Scheme as well as under New Assessment Scheme. This book will help in developing skills for determination of profit that is charged to income-tax. It is useful for tax administrators, tax consultants and taxpayers as a handy reference book on the subject.

[Education In Rural Areas](#) Aug 03 2022

[Comprehensive Natural Products II](#) Nov 06 2022 This work presents a definitive interpretation of the current status of and future trends in natural products—a dynamic field at the intersection of chemistry and biology concerned with isolation, identification, structure elucidation, and chemical characteristics of naturally occurring compounds such as pheromones, carbohydrates, nucleic acids, and enzymes. With more than 1,800 color figures, [Comprehensive Natural Products II](#) features 100% new material and complements rather than replaces the original work (©1999). Reviews the accumulated efforts of chemical and biological research to understand living organisms and their distinctive effects on health and medicine Stimulates new ideas among the established natural products research community—which includes chemists, biochemists, biologists, botanists, and pharmacologists Informs and inspires students and newcomers to the field with accessible content in a range of delivery formats Includes 100% new content, with more than 6,000 figures (1/3 of these in color) and 40,000 references to the primary literature, for a thorough examination of the field Highlights new research and innovations concerning living organisms and their distinctive role in our understanding and improvement of human health, genomics, ecology/environment, and more Adds to the rich body of work that is the first edition, which will be available for the first time in a convenient online format giving researchers complete access to authoritative Natural Products content

[Bibliography of Agriculture](#) Jan 28 2022

Rationality and Scientific Lifestyle for Health Feb 03 2020 This book argues that, to be healthy, human beings should love nature and stay in balance with it as much as possible. In other words: do not unbalance nature so that your own balance is not disturbed. The best and healthiest way for human beings to live is to find balance in life and nature. In this regard, the book discusses useful, nutritious, functional foods, nutraceuticals and antioxidants, and how natural molecules, which are provided by nature, can be the best medicine for human beings. At a molecular level, stress is defined by the presence of unbalanced free radicals in the body. Most diseases - especially type 2 diabetes, which accounts for the majority of diabetics - can be traced back to this problem. Our scientific evidence indicates that type 2 diabetes isn't just a disease resulting from sugar, but also from stress. The book seeks to promote a healthier lifestyle by considering the psychoemotional dimension of wellness. And finally, it contends that good sleep is at the root of health and happiness for humanity, and that unbalanced free radicals are expelled from the body during restful sleep. The authors hope that this book will be a helpful guide and source of peace for readers, especially given their need for inner calm during the COVID-19 pandemic, and that the suggestions provided will show them the way to a better life.

Advances in Power Systems and Energy Management Mar 30 2022 This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals.

[Land Utilization in the Central Himalaya](#) Jan 16 2021

Chitosan-Based Nanocomposite Materials Jul 28 2019 This book highlights the state-of-the-art research and discovery in the use of chitosan-based nanocomposites in biomedical applications, including the scope to which these novel materials have been incorporated by the community. It provides an exceptional insight into the strategies for the synthesis and chemical modifications of chitosan, characterization techniques, their use as anticancer agents, antimicrobial, antiviral, and antifungal agents, their role in the biomedical field, and applications in drug delivery, gene therapy, dentistry, orthopedics, etc. This book will also emphasize the challenges with previous signs of progress and way for further research, details relating to the current pioneering technology, and future perspectives with a multidisciplinary approach. Furthermore, it presents up-to-date information on the economics, toxicity, and regulations related to these novel materials.

[The Chemistry of Peroxides, Volume 3](#) Sep 04 2022 The understanding of functional groups is key for the understanding of all organic chemistry. In the tradition of the Patai Series each volume treats all aspects of functional groups. Each volume contains chapters on the theoretical and physicochemical foundations; on analytical aspects; on reaction mechanisms; on applications in synthesis. Depending on the functional group there are additional chapters on industrial use, on medical use, and on human and environmental toxicity issues. The last volume in the series on the topic (Peroxides Vol. 2) was published in 2006. In the eight years since then a lot of developments have taken place, especially in the areas of synthesis, analysis and a better theoretical understanding of the reaction mechanism, all of which are covered here. As with all new volumes, the chapters are first published online in Patai's Chemistry of Functional Groups. Once a volume is completed online, it is then published in print format. The printed book offers the traditional quality of the Patai Book Series, complete with an extensive index.

[Progress in Inorganic Chemistry](#) Apr 18 2021 The cutting edge of scientific reporting . . . PROGRESS in Inorganic Chemistry Nowhere is creative scientific talent busier than in the world of inorganic chemistry experimentation. Progress in Inorganic Chemistry continues in its tradition of being the most respected avenue for exchanging innovative research. This series provides inorganic chemists and materials scientists with a forum for critical, authoritative evaluations of advances in every area of the discipline. With contributions from internationally renowned chemists, this latest volume offers an in-depth, far-ranging examination of the changing face of the field, providing a tantalizing glimpse of the emerging state of the science. "This series is distinguished not only by its scope and breadth, but also by the depth and quality of the reviews." —Journal of the American Chemical Society "[This series] has won a deservedly honored place on the bookshelf of the chemist attempting to keep afloat in the torrent of original papers on inorganic chemistry." —Chemistry in Britain CONTENTS OF VOLUME 54: Atomlike Building Units of Adjustable Character: Solid-State and Solution Routes to Manipulating Hexanuclear Transition Metal Chalcholate Clusters (Eric J. Welch and Jeffrey R. Long) Doped Semiconductor Nanocrystals: Synthesis, Characterization, Physical Properties, and Applications (J. Daniel Bryan and Daniel R. Gamelin) Stereochemical Aspects of Metal Xanthone Complexes: Molecular Structures and Supramolecular Self-Assembly (Edward R. T. Tiekink and Ionel Haiduc) Trivalent Uranium: A Versatile Species for Molecular Activation (Iliia Korobkov and Sandro Gambarotta) Comparison of the Chemical Biology of NO and HNO: An Inorganic Perspective (Katrina M. Miranda and David A. Wink) Alterations of Nucleobase pKa Values upon Metal Coordination: Origins and Consequences (Bernhard Lippert) Functionalization of Myoglobin (Yoshihito Watanabe and Takashi Hayashi)

Gandhi Nov 25 2021 De 'halfnaakte fakir', zoals Churchill hem minachtend noemde, toersteerde in zijn eenjtie het Britse Rijk en vocht tot aan het eind van zijn leven voor tolerantie, geweldloosheid en de waardigheid van ieder mens. Nog steeds is hij een groot voorbeeld voor velen die weigeren te zwichten voor geweld en onrecht. Gandhi: De legendarische jaren is het tweede deel van de monumentale biografie over een van de meest gezichtsbepalende personen van de twintigste eeuw. Guha beschrijft de jaren waarin Gandhi uitgroeit tot de leider van de onafhankelijkheidsbeweging in India, zich onvermoeibaar inzet voor interreligieuze harmonie en zich fel verzet tegen elke vorm van kastediscriminatie en vrouwenonderdrukking. Ramachandra Guha heeft zijn magistrale boek voor een belangrijk deel kunnen baseren op veel nieuw archiefmateriaal van en over Gandhi.

Progress in Heterocyclic Chemistry Aug 11 2020 This is the 19th annual volume of Progress in Heterocyclic Chemistry, which covers the literature published during 2006. As with previous volumes in the series, Volume 19 will enable the reader to keep abreast of developments in heterocyclic chemistry in an effortless way. A critical review of the heterocyclic literature published during 2006 Presents specialized reviews Chapters all written by leading researchers in their field

CLIMATE CHANGE AND ITS ECOLOGICAL IMPLICATIONS FOR THE WESTERN HIMALAYA Oct 13 2020 In its thirteen chapters, this book deals with biophysical, biological, hydrological, meteorological and socio-economic aspects of western Himalayan region of India. It emphasizes on the need for strengthening institutional and research capacities that are critical to delivering meaningful and sustainable outcomes & impacts in return for the investments made. It also makes recommendations for the policy, planning and administrative interventions & reforms necessary for efficient and equitable delivery of benefits to the intended beneficiaries and for conservation of the valuable natural resources of the region. Each chapter has been prepared by a recognized expert in the identified area and the treatment bears the required mark of quality & authenticity.

Polymer Grafting and Crosslinking May 08 2020 Rapid advances in technology require materials with improved property profiles. Polymer modification using grafting and crosslinking are key ways to achieve this in an economical way and without the need for developing new materials. Often widely disparate and in a number of references, practical information on polymer grafting and crosslinking is now available in one volume. Researchers seeking information that bridges the knowledge gap between the scientific principles and industrial applications of polymer crosslinking and grafting will find coverage on the basic science, the methodologies, and a focus on the specific techniques used in a variety of industrial applications such as automotive, laminates, paints, adhesives, and cable. Coverage also includes potential biomedical applications. Descriptions of analytical tools that can be used to evaluate the results are also included.

Studies in Natural Products Chemistry Jun 08 2020 Natural products present in the plant and animal kingdom offer a huge diversity of chemical structures, which are the result of biosynthetic processes that have been modulated over the millennia through genetic effects. With the rapid developments in spectroscopic techniques and accompanying advances in high-throughput screening techniques, it has become possible to isolate and then determine the structures and biological activity of natural products rapidly, thus opening up to the pharmaceutical industry exciting opportunities in the field of new drug development. The series covers all of the above as well as the synthesis, testing and recording of the medicinal properties of natural products. With articles written by leading authorities in their respective fields of research, Studies in Natural Products Chemistry, Volume 46 presents current frontiers and future guidelines for research based on important discoveries made in the field of bioactive natural products. It is a valuable resource for all those working in natural product and medicinal chemistry. Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

XXIII DAE High Energy Physics Symposium Oct 05 2022 This volume presents the peer-reviewed proceedings of the XXIII DAE-BRNS High Energy Physics Symposium 2018, which was held at the Indian Institute of Technology Madras, India, on 10-15 December 2018. Gathering selected contributions, the book highlights the latest developments and research trends in physics, detectors and instrumentation relevant to all branches of particle physics, astroparticle physics and closely related fields. The major topics covered include Standard Model physics, beyond Standard Model physics, neutrino physics, cosmology, formal theory, heavy ion physics & quantum chromodynamics (QCD), particle detectors and future experiments. Given the range of topics discussed, the book will be useful for beginners as well as advanced researchers in the field.

International Tourism and Hospitality in the Digital Age Jul 30 2019 Tourism is one of the most rapidly evolving industries of the twenty-first century. The economy of many countries all over the world depends on their ability to attract visitors and maintain a distinct edge in a highly competitive market. International Tourism and Hospitality in the Digital Age brings together the best practices for growth, development, and strategic management within the tourism and hospitality industries. Highlighting comparative research that explores the cross-cultural contexts and societal implications of tourism, this book is an essential resource for professionals, researchers, academics, and students interested in a contemporary approach to promoting, managing, and maximizing profitability of leisure and recreation services.

Fullerenes—Advances in Research and Application: 2012 Edition Apr 30 2022 Fullerenes—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Fullerenes. The editors have built Fullerenes—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Fullerenes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Fullerenes—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Proceedings of Geotechnical Challenges in Mining, Tunneling and Underground Infrastructures Jul 22 2021 This book consists of selected papers presented at the International Conference on Geotechnical Challenges in Mining, Tunneling and Underground Infrastructures (ICGMTU), held as a virtual conference on December 20, 2021. The papers represent the research work in the related fields of underground mining, ground control, mining geotechnics, geo-instrumentation, mine tunnelling, and underground structures. It focuses on the latest technology being implemented including artificial intelligence and machine learning applications to solve challenges in mining tunneling and geotechnical structure engineering. It also highlights the state-of-the-art technologies adopted by the civil and mining industry for their commercial as well as environmental benefits. The papers are presented by an international pool of academics, research scientist, and industrial experts and therefore cater to the global audience from the field of underground engineering.

Bioactives and Pharmacology of Medicinal Plants Oct 25 2021 This two-volume book presents an abundance of important information on the bioactive and pharmacological properties of medicinal plants. It provides valuable comprehensive research and studies on bioactive phytochemicals of over 68 important medicinal plants with beneficial properties. For each species included in the volume, a brief introduction is given along with their bioactive compounds and chemical structures, followed by their chief pharmacological activities that include antiviral, antimicrobial, antioxidant, anti-cancer, anti-inflammatory, antidiabetic, hepatoprotective, nephroprotective, and cardioprotective activities. A review of the published literature on pharmacological activities of each species is included also, providing a thorough resource on each of the plants covered in the volume. The book's editor, an acknowledged expert in this area, foresees that these volumes will become a reliable standard resource for the development of new drugs. The volumes will be a valuable addition to the libraries of pharmacy institutes and pharmacy professors, research scholars, and postgraduate students of pharmacy and medicine, and enlightened medical professionals and pharmacists, phytochemists, and botanists will find much of value as well.

Bioresources and Bioprocess in Biotechnology Mar 06 2020 This book is a compilation of detailed articles on various products and services that can be derived from bioresources through bioprocess. It offers in-depth discussions and case studies on commercially and therapeutically important enzymes, antimicrobials, anti-cancer molecules and anti-inflammatory substances. It also includes a separate section on emerging trends in bioactive substances research. This unique book is a valuable source of information for biotechnologists and bioprocess experts as well as academics and researchers who are actively involved in product and process development.

Advances in Heterocyclic Chemistry Dec 27 2021 Advances in Heterocyclic Chemistry is the definitive series in the field—one of great importance to organic chemists, polymer chemists, and many biological scientists. Because biology and organic chemistry increasingly intersect, the associated nomenclature also is being used more frequently in explanations. Written by established authorities in the field from around the world, this comprehensive review combines descriptive synthetic chemistry and mechanistic insight to yield an understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds. Considered the definitive serial in the field of heterocyclic chemistry Serves as the go-to reference for organic chemists, polymer chemists, and many biological scientists Provides the latest comprehensive reviews written by established authorities in the field Combines descriptive synthetic chemistry and mechanistic insight to enhance understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds

Sainik Samachar Aug 23 2021

Studies on Kumaun Himalaya Feb 14 2021 Contributed articles on various aspects of Kumaun, India.

Garhwal Himalaya Nov 13 2020

Phytopharmaceuticals Dec 15 2020 Medicinal plants contain a variety of bioactive compounds, (also referred to as phytochemicals), in the leaves, stems, flowers and fruits. This book covers these bioactive compounds, their available sources, how the bioactive molecules are isolated from the plants, the biochemistry, structural composition and potential biological activities. Also discussed are the pharmacological aspects of medicinal plants, phytochemistry and biological activities of different natural products, ethnobotany and medicinal properties, as well as a novel dietary approach for various disease management and therapeutic potential. The importance of phytopharmaceutical plants and potential applications in the food and pharma industries is highlighted.

New Tools to Interrogate Endocannabinoid Signalling Apr 06 2020 New Tools to Interrogate Endocannabinoid Signalling comprehensively covers the innovative research into both natural and synthetic compounds. This timely volume will be a valuable resource to pharmaceutical researchers and medicinal chemists working in natural products and endocannabinoid drug discovery in academia and industry.

Securing India The Modi Way Mar 18 2021 In Securing India the Modi way - Pathankot, Surgical strikes and More, Nitin A. Gokhale provides the most intimate and sweeping account yet of Team Narendra Modi's approach to national security and foreign policy initiatives. Drawing on internal memos, as yet classified information, meeting notes and hundreds of hours of interviews with key players in the national security team, Gokhale brings alive inside stories of decision-making at the highest levels in the government. Painstakingly researched, the book details hitherto unknown aspects of the planning and execution of the surgical strikes, revamping of New Delhi's policy towards China and Pakistan, India's renewed global policy focus on Middle East, Prime Minister Modi's attempt to leverage the Indian diaspora worldwide and his attention to smallest of details besides focusing on some small but far-reaching steps taken to secure India in every possible way - on land, space, cyber and maritime domains.

The Shorter Wisden India Almanack 2014 Jan 04 2020 Wisden has grown through the years to embrace innovation and maintain its status as the most revered and cherished brand in cricket. The 'Bible of Cricket', Wisden Cricketers' Almanack has been published every year since 1864. Wisden's Cricketers of the Year Awards, one of the oldest honours in the sport, dates back to 1889. The Almanack, known for editorial excellence, has been a perennial bestseller in the UK. The second edition with India-specific content is even more engrossing. Contributors include Bishan Singh Bedi, Anil Kumble, Mahela Jayawardhene, Sanjay Manjrekar, Shashi Tharoor, Gideon Haigh, Kamila Shamsie, Shehan Karunatilaka, Rahul Bhattacharya and many others...

Naturally Occurring Organohalogen Compounds - A Comprehensive Update Jul 10 2020 Despite the long association of organohalogen compounds with human activities, nature is the producer of nearly 5,000 halogen-containing chemicals. Once dismissed as accidents of nature or isolation artifacts, organohalogen compounds represent an important and ever growing class of natural products, in many cases exhibiting exceptional biological activity. Since the last comprehensive review in 1996 (Vol. 68, this series), there have been discovered an additional 2,500 organochlorine, organobromine, and other organohalogen compounds. These natural organohalogen compounds are biosynthesized by bacteria, fungi, lichen, plants, marine organisms of all types, insects, and higher animals including humans. These compounds are also formed abiotically, as in volcanoes, forest fires, and other geothermal events. In some instances, natural organohalogen compounds are precisely the same chemicals that man synthesizes for industrial use, and some of the quantities of these natural chemicals far exceed the quantities emitted by man.

Green Approaches in Medicinal Chemistry for Sustainable Drug Design Sep 23 2021 Extensive experimentation and high failure rates are a well-recognized downside to the drug discovery process, with the resultant high levels of inefficiency and waste producing a negative environmental impact. Sustainable and Green Approaches in Medicinal Chemistry reveals how medicinal and green chemistry can work together to directly address this issue. After providing essential context to the growth of green chemistry in relation to drug discovery in Part 1, the book goes on to identify a broad range of practical methods and synthesis techniques in Part 2. Part 3 reveals how medicinal chemistry techniques can be used to improve efficiency, mitigate failure and increase the environmental benignity of the entire drug discovery process, whilst Parts 4 and 5 discuss natural products and microwave-induced chemistry. Finally, the role of computers in drug discovery is explored in Part 6. Identifies novel and cost effective green medicinal chemistry approaches for improved efficiency and sustainability Reflects on techniques for a broad range of compounds and materials Highlights sustainable and green chemistry pathways for molecular synthesis

Bibliography on Tropical Rain Forests and the Global Carbon Cycle: South Asia Jun 20 2021

Journal of the Indian Chemical Society Dec 03 2019

Biotechnology for Medicinal Plants Feb 26 2022 Plant-based medicines play an important role in all cultures, and have been indispensable in maintaining health and combating diseases. The identification of active principles and their molecular targets from traditional medicine provides an enormous opportunity for drug development. Using modern biotechnology, plants with specific chemical compositions can be mass propagated and genetically improved for the extraction of bulk active pharmaceuticals. Although there has been significant progress in the use of biotechnology, using tissue cultures and genetic transformation to investigate and alter pathways for the biosynthesis of target metabolites, there are many challenges involved in bringing plants from the laboratory to successful commercial cultivation. This book presents the latest advances in the development of medicinal drugs, including topics such as plant tissue cultures, secondary metabolite production, metabolomics, metabolic engineering, bioinformatics and future biotechnological directions.

Heterogeneous Micro and Nanoscale Composites for the Catalysis of Organic Reactions Nov 01 2019 Heterogeneous Micro and Nanoscale Composites for the Catalysis of Organic Reactions discusses the major properties and applications of heterogeneous micro and nanoscale composites, including surface coating and functionalization capability, effective physical properties, recovery and reusability, biocompatibility and biodegradability. In addition, preparation strategies and essential analytical methods for the characterization of these materials are investigated. The effects of morphology, porosity and sizes of these composites on catalytic activity are also discussed. This book is an important reference source for materials engineers and chemical engineers who are interested in heterogeneous, thin-scaled materials and catalyzed organic synthesis reactions. In addition, this book will help researchers design novel structures and apply them in catalytic applications. Provides information on the preparation, characterization and applications of catalysis of organic reactions Outlines the major catalytic applications of heterogeneous nanocomposites Assesses the major challenges of manufacturing heterogeneous nanocomposites on an industrial scale

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