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Plant Responses to Nanomaterials - Vijay Pratap Singh 2021-05-03

The population of the world continues to increase at an alarming rate. The trouble linked with overpopulation ranges from food and water scarcity to inadequacy of space for organisms. Overpopulation is also linked with several other demographic hazards, for instance, population blooming will not only result in exhaustion of natural repositories, but it will also induce intense pressure on the world economy. Today nanotechnology is often discussed as a key discipline of research but it has positive and negative aspects. Also, due to industrialization and ever-increasing population, nano-pollution has been an emerging topic among scientists for investigation and debate. Nanotechnology measures any substance on a macromolecular scale, molecular scale, and even atomic scale. More importantly, nanotechnology deals with the manipulation and control of any matter at the dimension of a single nanometer.

Nanotechnology and nanoparticles (NPs) play important roles in sustainable development and environmental challenges as well. NPs possess both harmful and beneficial effects on the environment and its harboring components, such as microbes, plants, and humans. There are many beneficial impacts exerted by nanoparticles, however, including their role in the management of waste water and soil treatment, cosmetics, food packaging, agriculture, biomedicines, pharmaceuticals, renewable energies, and environmental remedies. Conversely, NPs also show some toxic effects on microbes, plants, as well as human beings. It

has been reported that use of nanotechnological products leads to the more accumulation of NPs in soil and aquatic ecosystems, which may be detrimental for living organisms. Further, toxic effects of NPs on microbes, invertebrates, and aquatic organisms including algae, has been measured. Scientists have also reported on the negative impact of NPs on plants by discussing the delivery of NPs in plants. Additionally, scientists have also showed that NPs interact with plant cells, which results in alterations in growth, biological function, gene expression, and development. Thus, there has been much investigated and reported on NPs and plant interactions in the last decade. This book discusses the most recent work on NPs and plant interaction, which should be useful for scientists working in nanotechnology across a wide variety of disciplines.

Diesel & Gas Turbine Catalog - 1990

[Beast and Man in India](#) - John Lockwood Kipling 1891

[Capital Versus the Regions](#) - Stuart Holland 1977-06-30

Biodiesel Science and Technology - Jan C.J. Bart 2010-02-19

Biodiesel production is a rapidly advancing field worldwide, with biodiesel fuel increasingly being used in compression ignition (diesel) engines. Biodiesel has been extensively studied and utilised in developed

countries, and it is increasingly being introduced in developing countries, especially in regions with high potential for sustainable biodiesel production. Initial sections systematically review feedstock resources and vegetable oil formulations, including the economics of vegetable oil conversion to diesel fuel, with additional coverage of emerging energy crops for biodiesel production. Further sections review the transesterification process, including chemical (catalysis) and biochemical (biocatalysis) processes, with extended coverage of industrial process technology and control methods, and standards for biodiesel fuel quality assurance. Final chapters cover the sustainability, performance and environmental issues of biodiesel production, as well as routes to improve glycerol by-product usage and the development of next-generation products. Biodiesel science and technology: From soil to oil provides a comprehensive reference to fuel engineers, researchers and academics on the technological developments involved in improving biodiesel quality and production capacity that are crucial to the future of the industry. Evaluates biodiesel as a renewable energy source and documents global biodiesel development The outlook for biodiesel science and technology is presented exploring the challenges faced by the global diesel industry Reviews feedstock resources and vegetable oil formation including emerging crops and the agronomic potential of underexploited oil crops

Caliban and the Witch - Silvia Federici 2004

"Women, the body and primitive accumulation"--Cover.

Intelligent and Cloud Computing - Debahuti Mishra 2020-10-30

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data

storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

The Mechanics' Magazine and Journal of Science, Arts, and Manufactures - 1871

Marketing Strategies of the Horticultural Production Chain - Marco A. Palma 2021-03-19

This book consists of a series of articles that present novel trends in horticulture marketing and some of the key supply chain management issues for the horticulture industry across a wide range of geographical regions.

Anomalies and Curiosities of Medicine - George Milbry Gould 1900

Powering a Learning Society During an Age of Disruption - Sungsup Ra 2021

This open access book presents contemporary perspectives on the role of a learning society from the lens of leading practitioners, experts from universities, governments, and industry leaders. The think pieces argue for a learning society as a major driver of change with far-reaching influence on learning to serve the needs of economies and societies. The book is a testimonial to the importance of learning communities. It highlights the pivotal role that can be played by non-traditional actors such as city and urban planners, citizens, transport professionals, and technology companies. This collection seeks to contribute to the discourse on strengthening the fabric of a learning society crucial for future economic and social development, particularly in the aftermath of the coronavirus disease.

100 Years of Radar - Gaspare Galati 2015-09-15

This book offers fascinating insights into the key technical and scientific developments in the history of radar, from the first patent, taken out by Hülsmeyer in 1904, through to the present day. Landmark events are highlighted and fascinating insights provided into the exceptional people

who made possible the progress in the field, including the scientists and technologists who worked independently and under strict secrecy in various countries across the world in the 1930s and the big businessmen who played an important role after World War II. The book encourages multiple levels of reading. The author is a leading radar researcher who is ideally placed to offer a technical/scientific perspective as well as a historical one. He has taken care to structure and write the book in such a way as to appeal to both non-specialists and experts. The book is not sponsored by any company or body, either formally or informally, and is therefore entirely unbiased. The text is enriched by approximately three hundred images, most of which are original and have been accessed by detailed searches in the archives.

Automotive Engineering - David Crolla 2009-08-13

A one-stop reference for automotive and other engineers involved in vehicle and automotive technologies. The book provides essential information on each of the main automotive systems (engines; powertrain and chassis; bodies; electrical systems) plus critical external factors that engineers need to engage with, such as hybrid technologies, vehicle efficiency, emissions control and performance optimization. * Definitive content by the leading authors in the field * A thorough resource, providing all the essential material needed by automotive and mechanical engineers on a day-to-day basis * Fundamentals, key techniques, engineering best practice and know-how together in one quick-reference sourcebook * Focuses on what engineers need to know: engineering fundamentals, key associated technologies, environmental and efficiency engineering, and sustainability, as well as market-driven requirements such as reliability, safety, and comfort * Accompanied by multi-body dynamics and tire dynamic modeling software

Motor Sport - William Boddy 1967

Small Scale Vegetable Oil Extraction - S. W. Head 1995

Options available for processing a range of common oilseeds, commonly used in the manufacture of human food, are described and presented in this publication. The processes range from domestic to village scales of

operation. The appropriate types and sources of equipment are described.

Lightweight Electric/Hybrid Vehicle Design - John Fenton 2001
Lightweight Electric/Hybrid Vehicle Design, covers the particular automotive design approach required for hybrid/electrical drive vehicles. There is currently huge investment world-wide in electric vehicle propulsion, driven by concern for pollution control and depleting oil resources. The radically different design demands of these new vehicles requires a completely new approach that is covered comprehensively in this book. The book explores the rather dramatic departures in structural configuration necessary for purpose-designed electric vehicle including weight removal in the mechanical systems. It also provides a comprehensive review of the design process in the electric hybrid drive and energy storage systems. Ideal for automotive engineering students and professionals *Lightweight Electric/Hybrid Vehicle Design* provides a complete introduction to this important new sector of the industry. comprehensive coverage of all design aspects of electric/hybrid cars in a single volume packed with case studies and applications in-depth treatment written in a text book style (rather than a theoretical specialist text style)

The Death of Luigi Trastulli and Other Stories - Alessandro Portelli 2010-03-30

Portelli offers a new and challenging approach to oral history, with an interdisciplinary and multicultural perspective. Examining cultural conflict and communication between social groups and classes in industrial societies, he identifies the way individuals strive to create memories in order to make sense of their lives, and evaluates the impact of the fieldwork experience on the consciousness of the researcher. By recovering the value of the story-telling experience, Portelli's work makes delightful reading for the specialist and non-specialist alike. Alessandro Portelli is Professor of American Literature at the University of Rome "La Sapienza."

Singlehanded Sailing - Andrew Evans 2014-09-05

"It takes thousands of hours of sailing to get the kind of knowledge

contained in this book." -- from the Foreword by Bruce Schwab The ONLY bible for how to sail your boat fast, safe, and alone Solo sailing is within any sailor's grasp with a little forethought--and this essential guide. Got a 35-foot sailboat? No problem. Is the wind blowing 20 knots? No problem. Are you racing offshore overnight? Even better.

Singlehander Andrew Evans learned the hard way how to sail and race alone--with lots of mishaps, including broaches and a near tumbling over a waterfall--and in Singlehanded Sailing he shares the techniques, tips, and tactics he has developed to make his solo sailing adventures safe and enriching. Learn everything you need to know to meet any solo challenge, including: Managing the power consumption aboard a boat to feed the electric autopilot Setting and gybing a spinnaker Finding time to sleep Dealing with heavy weather

Encyclopedia of Dietary Supplements - Paul M. Coates 2010-06-25

Encyclopedia of Dietary Supplements presents peer-reviewed, objective entries that rigorously examine the most significant scientific research on basic chemical, preclinical, and clinical data. Designed for healthcare professionals, researchers, and health-conscious consumers, it presents evidence-based information on the major vitamin and mineral micronutrients, herbs, botanicals, phytochemicals, and other bioactive preparations. Supplements covered include: Vitamins, beta-carotene, niacin, and folate Omega-3 and omega-6 fatty acids, isoflavones, and quercetin Calcium, copper, iron, and phosphorus 5-hydroxytryptophan, glutamine, and L-arginine St. John's Wort, ginkgo biloba, green tea, kava, and noni Androstenedione, DHEA, and melatonin Coenzyme Q10 and S-adenosylmethionine Shiitake, maitake, reishi, and cordyceps With nearly 100 entries contributed by renowned subject-specific experts, the book serves as a scientific checkpoint for the many OTC supplements carried in today's nutritional products marketplace. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: □ Citation tracking and alerts □ Active reference linking □ Saved searches and marked lists □ HTML and PDF format options Contact Taylor and Francis for more information or to

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Taurine 5 - John B. Lombardini 2012-12-06

The Taurine Symposium- "Taurine: Beginning the 21" Century"- was held September 20-23, 2002, on the beautiful island of Kauai in Hawaii. The headquarters of the meeting was the Radisson Kauai Beach Resort. This international meeting was attended by approximately 80 individuals from 23 nations and 4 continents. Seventy-five papers were presented either as platform presentations or poster presentations. Taurine, first isolated from ox bile in 1827 by Tiedemann and Gmelin and named in 1838 by Demarcay, became of significant scientific interest in 1968 when the first extensive review article was published by Jacobsen and Smith. Interest in taurine grew exponentially after 1975 when the first taurine symposium was organized by Ryan Huxtable in Tucson, Arizona. Since that date, taurine symposia have been held approximately every two years held in various cities and resort areas around the world. Taurine investigators have had the privilege of attending these scientific meetings on three continents - Asia, Europe, and North America. Since the initial meeting in 1975, a central question addressed during many of the symposia has been: "What is physiological, pharmacological, nutritional, and pathological role of taurine?". Although taurine has been established as an important osmolyte, it appears to affect many other biological processes. However, the exact mechanism(s) by "which taurine acts" has not yet been definitively answered. In Kauai, the participants discussed many topics and asked many questions regarding the role and actions of taurine.

Veterinary Herbal Medicine - Susan G. Wynn 2006-11-29

This full-color reference offers practical, evidence-based guidance on using more than 120 medicinal plants, including how to formulate herbal remedies to treat common disease conditions. A body-systems based review explores herbal medicine in context, offering information on toxicology, drug interactions, quality control, and other key topics. More

than 120 herbal monographs provide quick access to information on the historical use of the herb in humans and animals, supporting studies, and dosing information. Includes special dosing, pharmacokinetics, and regulatory considerations when using herbs for horses and farm animals. Expanded pharmacology and toxicology chapters provide thorough information on the chemical basis of herbal medicine. Explores the evolutionary relationship between plants and mammals, which is the basis for understanding the unique physiologic effects of herbs. Includes a body systems review of herbal remedies for common disease conditions in both large and small animals. Discusses special considerations for the scientific research of herbs, including complex and individualized interventions that may require special design and nontraditional outcome goals.

Fuels, Lubricants, Coolants, and Filters - 2016

Fuels, Lubricants, Coolants, and Filters easily helps a reader to understand these wonderful liquids and filters better. By starting with the basics, it builds your knowledge step-by-step in a very structured manner.

Vegetarian and Plant-Based Diets in Health and Disease Prevention - François Mariotti 2017-05-23

Vegetarian and Plant-Based Diets in Health and Disease Prevention examines the science of vegetarian and plant-based diets and their nutritional impact on human health. This book assembles the science related to vegetarian and plant-based diets in a comprehensive, balanced, single reference that discusses both the overall benefits of plant-based diets on health and the risk of disease and issues concerning the status in certain nutrients of the individuals, while providing overall consideration to the entire spectrum of vegetarian diets. Broken into five sections, the first provides a general overview of vegetarian / plant-based diets so that readers have a foundational understanding of the topic. Dietary choices and their relation with nutritional transition and sustainability issues are discussed. The second and third sections provide a comprehensive description of the relationship between plant-based diets and health and disease prevention. The fourth section provides a

deeper look into how the relationship between plant-based diets and health and disease prevention may differ in populations with different age or physiological status. The fifth and final section of the book details the nutrients and substances whose intakes are related to the proportions of plant or animal products in the diet. Discusses the links between health and certain important characteristics of plant-based diets at the level of food groups Analyzes the relation between plant-based diet and health at the different nutritional levels, i.e. from dietary patterns to specific nutrients and substances Provides a balanced evidence-based approach to analyze the positive and negative aspects of vegetarianism Addresses the different aspects of diets predominantly based on plants, including geographical and cultural variations of vegetarianism

Clean Fuel Supply - Organisation for Economic Co-operation and Development 1978

Automotive Technology - James D. Halderman 2012

Automotive Technology: Principles, Diagnosis, and Service, Fourth Edition, meets the needs for a comprehensive book that covers all eight areas of automotive service, plus the soft skills and tool knowledge that must also be taught. Because many automotive systems are intertwined, presenting all systems together in one text makes it easier for the student to see how they are all connected. Topics are divided into 133 short chapters, which makes it easier for instructors and students to learn and master the content.

Biofuels from Algae - Ashok Pandey 2013-08-08

This book provides in-depth information on basic and applied aspects of biofuels production from algae. It begins with an introduction to the topic, and follows with the basic scientific aspects of algal cultivation and its use for biofuels production, such as photo bioreactor engineering for microalgae production, open culture systems for biomass production and the economics of biomass production. It provides state-of-the-art information on synthetic biology approaches for algae suitable for biofuels production, followed by algal biomass harvesting, algal oils as fuels, biohydrogen production from algae, formation/production of co-

products, and more. The book also covers topics such as metabolic engineering and molecular biology for algae for fuel production, life cycle assessment and scale-up and commercialization. It is highly useful and helps you to plan new research and design new economically viable processes for the production of clean fuels from algae. Covers in a comprehensive but concise way most of the algae biomass conversion technologies currently available Lists all the products produced from algae, i.e. biohydrogen, fuel oils, etc., their properties and potential uses Includes the economics of the various processes and the necessary steps for scaling them up

Salinity Responses and Tolerance in Plants, Volume 1 - Vinay Kumar 2018-04-05

Soil salinity is a key abiotic-stress and poses serious threats to crop yields and quality of produce. Owing to the underlying complexity, conventional breeding programs have met with limited success. Even genetic engineering approaches, via transferring/overexpressing a single 'direct action gene' per event did not yield optimal results. Nevertheless, the biotechnological advents in last decade coupled with the availability of genomic sequences of major crops and model plants have opened new vistas for understanding salinity-responses and improving salinity tolerance in important glycophytic crops. Our goal is to summarize these findings for those who wish to understand and target the molecular mechanisms for producing salt-tolerant and high-yielding crops. Through this 2-volume book series, we critically assess the potential venues for imparting salt stress tolerance to major crops in the post-genomic era. Accordingly, perspectives on improving crop salinity tolerance by targeting the sensory, ion-transport and signaling mechanisms are presented here in volume 1. Volume 2 will focus on the potency of post-genomic era tools that include RNAi, genomic intervention, genome editing and systems biology approaches for producing salt tolerant crops. *Report of the Librarian of Congress* - Library of Congress 1897

Taurine 10 - Dong-Hee Lee 2017-08-28

Taurine 10 contains original articles and critical reviews based on the

oral and poster presentations of XX International Taurine Meeting held in Seoul, Korea in May 2016. The purpose of the book is to present current ideas, new avenues and research regarding biological functions and clinical applications of taurine and taurine derivatives. It focuses on all aspects of taurine research including the cardiovascular system, the immune system, diabetes, the central nervous system, endocrine system and the role of taurine supplements in nutrition. It also includes presentations of novel animal experimental models using Cdo1 and CSAD knock-out mice.

Man and Nature, Or Physical Geography as Modified by Human Action by George P. Marsh - George Perkins Marsh 1864

Oncologic Therapies - Everett E. Vokes 2011-06-28

This second edition has been updated in a user-friendly layout that makes its comprehensive information extremely accessible. The handbook, written for all physicians who treat cancer patients, provides a survey of current therapeutic concepts of solid tumors and hematologic malignancies in internal oncology. Each individual chapter of this shortened new edition is structured in the same way and features a brief outline or tabular summary of the main aspects of epidemiology, pathology, staging, and diagnosis. The main focus is on the therapeutic strategy, i.e., an interdisciplinary approach to systemic drug therapy. Surgical and radiological concepts of treatment are also covered, as are supportive care, pain relief methods and ethical problems. This title is a must for clinicians and practitioners as well as interns, residents and postgraduate students.

Thomas Register of American Manufacturers and Thomas Register Catalog File - 1996

Vols. for 1970-71 includes manufacturers catalogs.

Information Technologies for Epigraphy and Cultural Heritage - Silvia Orlandi 2014-09-11

This peer-reviewed volume contains selected papers from the First EAGLE International Conference on Information Technologies for Epigraphy and Cultural Heritage, held in Paris between September 29

and October 1, 2014. Here are assembled for the first time in a unique volume contributions regarding all aspects of Digital Epigraphy: Models, Vocabularies, Translations, User Engagements, Image Analysis, 3D methodologies, and ongoing projects at the cutting edge of digital humanities. The scope of this book is not limited to Greek and Latin epigraphy; it provides an overview of projects related to all epigraphic inquiry and its related communities. This approach intends to furnish the reader with the broadest possible perspective of the discipline, while at the same time giving due attention to the specifics of unique issues.

Oxidative Stress in Lung Diseases - Sajal Chakraborti 2019-08-31

This first volume of the comprehensive, two-volume work on oxidative stress in lung disease introduces the molecular mechanisms, and the role of oxidants in the progression of different lung diseases. The lungs of humans and animals are under constant threat from oxidants from either endogenous (e.g. in situ metabolic reactions) or exogenous sources (e.g. air pollutants). Further, oxidative stress causes the oxidation of proteins, DNA and lipids, which in turn generates secondary metabolic products. The book consists of sections, each focusing on different aspects of oxidant-mediated lung diseases. As such it is a unique reference resource for postgraduate students, biomedical researchers and also for the clinicians who are interested in studying and understanding oxidant-mediated lung diseases. The second volume will incorporate other aspects of oxidant-mediated lung diseases, including prevention and therapeutics.

NanoAgroceuticals & NanoPhytoChemicals - Bhupinder Singh

2018-11-19

This book volume encompasses the recent trends made in the applications of nanoscale tools for diverse constituents of plants and agriculture, particularly in addressing the critical issues related to their safety, efficacy, and efficient and cost-efficient development and production.

Prairie Farmer - 1983

28th International Symposium on Shock Waves - Konstantinos Kontis

2012-03-22

The University of Manchester hosted the 28th International Symposium on Shock Waves between 17 and 22 July 2011. The International Symposium on Shock Waves first took place in 1957 in Boston and has since become an internationally acclaimed series of meetings for the wider Shock Wave Community. The ISSW28 focused on the following areas: Blast Waves, Chemically Reacting Flows, Dense Gases and Rarefied Flows, Detonation and Combustion, Diagnostics, Facilities, Flow Visualisation, Hypersonic Flow, Ignition, Impact and Compaction, Multiphase Flow, Nozzle Flow, Numerical Methods, Propulsion, Richtmyer-Meshkov, Shockwave Boundary Layer Interaction, Shock Propagation and Reflection, Shock Vortex Interaction, Shockwave Phenomena and Applications, as well as Medical and Biological Applications. The two Volumes contain the papers presented at the symposium and serve as a reference for the participants of the ISSW 28 and individuals interested in these fields.

Masterpieces of Swiss Entrepreneurship - Jean-Pierre Jeannet

2021-04-21

This open access book focuses on Switzerland-based medium-sized companies with a longstanding export tradition and a proven dominance in global niche markets. Based upon in-depth documentation and analysis of 36 Swiss companies over their entire history, an expert team of authors presents several parallels in the pathways and success factors which allowed these firms to become dominant and operate from a high-cost location such as Switzerland. The book enhances these insights by providing detailed company profiles documenting the company history, development, and how their relevant global niche positions were reached. Readers will benefit from these profiles as they compile a diverse selection of industries, mainly active within the B2B sector, with mostly mature companies (60 years to older than 100 years since founding) and different types of ownership structures including family firms. 'Masterpieces of Swiss Entrepreneurship' brings unique learning opportunities to owners and leaders of SMEs in Switzerland and elsewhere. Findings are based on detailed bottom-up research of 36

companies -- without any preconceived notions. The book is both conceptual and practical. It fosters understanding for different choices in development pathways and management practices. Matti Alahuhta, Chairman DevCo Partners, ex-CEO Kone, Board member of several global listed companies, Helsinki, Finland Start-up entrepreneurs need proven models from industry which demonstrate the various paths to success. "Masterpieces of Swiss Entrepreneurship" provides deep insights highlighting these models and the important trade-offs entrepreneurial teams must consider when choosing the path of high growth or of maximum control, as they are often mutually exclusive. Gina Domanig, Managing Partner, Emerald Technology Ventures, Zurich

IEEE Membership Directory - Institute of Electrical and Electronics Engineers 1989

Ecophysiology and Responses of Plants under Salt Stress - Parvaiz Ahmad 2012-11-09

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.