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Materials Science and Applied Chemistry

Springer Science & Business Media

This reference work provides comprehensive information about the bioactive molecules presented in our daily food and their effect on the physical and mental state of our body. Although the concept of functional food is new, the consumption of selected food to attain a specific effect existed already in ancient civilizations, namely of China and India. Consumers are now more attentive to food quality, safety and health benefits, and the food industry is led to develop processed- and packaged-food, particularly in terms of calories, quality, nutritional value and bioactive molecules. This book covers the entire range of bioactive molecules presented in daily food, such as carbohydrates, proteins, lipids, isoflavonoids, carotenoids, vitamin C, polyphenols, bioactive molecules presented in wine, beer and cider. Concepts like French paradox, Mediterranean diet, healthy diet of eating

fruits and vegetables, vegan and vegetarian diet, functional foods are described with suitable case studies. Readers will also discover a very timely compilation of methods for bioactive molecules analysis. Written by highly renowned scientists of the field, this reference work appeals to a wide readership, from graduate students, scholars, researchers in the field of botany, agriculture, pharmacy, biotechnology and food industry to those involved in manufacturing, processing and marketing of value-added food products.

4th International Conference on Nanotechnologies and Biomedical Engineering BoD – Books on Demand

This book contains 14 invited contributions written by distinguished authors who participated in the VIII International Conference on Computational Plasticity held at CIMNE/UPC (www.cimne.com) from 5-8 September 2005, in Barcelona, Spain. The chapters present recent progress and future research directions in the field of computational plasticity.

Advances on Mechanics, Design Engineering and Manufacturing II Humana Press

This book contains the papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2018), held on 20-22 June 2018 in Cartagena, Spain. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse

engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into six main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.

Introduction to Instrumentation and Measurements Springer
Erik Wischerhoff, Nezha Badi, André Laschewsky and Jean-François Lutz
Smart Polymer Surfaces: Concepts and Applications in Biosciences; S. Petersen, M. Gattermayer and M. Biesalski
Hold on at the Right Spot: Bioactive Surfaces for the Design of Live-Cell Micropatterns; Julien Polleux
Interfacing Cell Surface Receptors to Hybrid Nanopatterned Surfaces: A Molecular Approach for Dissecting the Adhesion Machinery; Abigail Pulsipher and Muhammad N. Yousaf
Self-Assembled Monolayers as Dynamic Model Substrates for Cell Biology; D. Volodkin, A. Skirtach and H. Möhwald
LbL Films as Reservoirs for Bioactive Molecules; R. Gentsch and H. G. Börner
Designing Three-Dimensional Materials at the Interface to Biology; Joerg C. Tiller
Antimicrobial Surfaces; The ASCRS Manual of Colon and Rectal Surgery CRC Press
The ASCRS Textbook of Surgery of the Colon and Rectum offers a comprehensive textbook designed to provide state of the art information to residents in training and fully trained surgeons seeking recertification. The textbook also supports the mission of the ASCRS to be the world 's authority on colon and rectal disease. The combination of junior and senior authors selected from the membership of the ASCRS for each chapter

will provide a comprehensive summary of each topic and allow the touch of experience to focus and temper the material. This approach should provide the reader with a very open minded, evidence based approach to all aspects of colorectal disease. Derived from the textbook, The ASCRS Manual of Surgery of the Colon and Rectum offers a “ hands on ” version of the textbook, written with the same comprehensive, evidence-based approach but distilled to the clinical essentials. In a handy pocket format, readers will find the bread and butter information for the broad spectrum of practice. In a consistent style, each chapter outlines the condition or procedure being discussed in a concise outline format – easy to read, appropriately illustrated and referenced.

Quantitative Imaging in Cell Biology Springer Science & Business Media
This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

Harrison's Neurology in Clinical Medicine, 3E Cambridge University Press

This original book develops a systematic zero-net-profit comparative statics theory to shed new light on the microeconomics of industry equilibrium.

Biological Activities and Application of Marine Polysaccharides Springer Nature

Neurology – as only Harrison ' s can cover it Featuring a superb compilation of chapters related to neurology that appear in Harrison ' s Principles of Internal Medicine, Eighteenth Edition, this concise, full-color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison ' s. You will find content from renowned editors and contributors in a carry-anywhere presentation that is ideal for the classroom, clinic, ward, or exam/certification preparation. Features Current, complete coverage of clinically important topics in neurology, including Clinical Manifestations of Neurologic Diseases, Diseases of the Nervous System, Chronic Fatigue Syndrome, Psychiatric Disorders, and Alcoholism and Drug Dependency NEW CHAPTERS discuss the pathogenesis and treatment and syncope; dizziness and vertigo; peripheral neuropathy; neuropsychiatric problems among war veterans; and advances in deciphering the pathogenesis of common psychiatric disorders Integration of pathophysiology with clinical management 118 high-yield questions and answers drawn from

Harrison ' s Principles of Internal Medicine Self-Assessment and Board Review, 18e Content updates and new developments since the publication of Harrison ' s Principles of Internal Medicine, 18e 58 chapters written by physicians who are recognized experts in the field of clinical neurology Helpful appendix of laboratory values of clinical importance High Temperature Polymer Electrolyte Membrane Fuel Cells Cambridge University Press

Special Topics in Structural Dynamics, Volume 6: Proceedings of the 31st IMAC, A Conference and Exposition on Structural Dynamics, 2013, the sixth volume of seven from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Teaching Experimental & Analytical Structural Dynamics Sensors & Instrumentation Aircraft/Aerospace Bio-Dynamics Sports Equipment Dynamics Advanced ODS & Stress Estimation Shock & Vibration Full-Field Optical Measurements & Image Analysis Structural Health Monitoring Operational Modal Analysis Wind Turbine Dynamics Rotating Machinery Finite Element Methods Energy Harvesting

Functional Polymer Coatings Cambridge University Press
The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry, graduate students.

Structural Economic Dynamics Springer
Activation, inhibition, or destruction of the nervous system or its component parts as a vital tool for the investigation of function has undergone remarkable development; indeed, new approaches have been developed that allow for these actions to be used as therapeutic tools. In Stimulation and Inhibition of Neurons, experts in the field provide an overview of modern methods for generating lesions as well as for stimulating and inhibiting neural pathways. Many new

techniques such as optogenetics and the use of the in situ perfused preparation are examined, while, in other sections, the use and validity of more well-known approaches are reassessed. Written for the Neuromethods series, chapters examine their respective topics thoroughly and include the kind of detail and implementation advice that ensures successful results in the laboratory. Authoritative and cutting-edge, Stimulation and Inhibition of Neurons serves as an ideal guide for researchers seeking to gain further knowledge of the complex functions of the brain.

Advances in Green Synthesis John Wiley & Sons
Third edition of the best-selling Cambridge English: First (FCE) course. The syllabus for this exam has changed and this book has now been replaced by 9781107628304 Objective First Fourth edition Student's Book with answers with CD-ROM. Full Industry Equilibrium Springer Nature

Cancer control is the term applied to the development of integrated population-based approaches to reduce the incidence and mortality from cancer and to minimize its impact on affected individuals and on the community. The integrated nature of cancer control is reflected in this multi-disciplinary text, the first in this rapidly developing field.

Elements of Fiction Writing - Conflict and Suspense Oxford University Press

Hemoglobin-Based Oxygen Carriers as Red Cell Substitutes and Oxygen Therapeutics Springer Science & Business Media

Cancer Control Springer Science & Business Media
This edited book focusses on green chemistry as the research community endeavours to create eco-friendly materials and technologies. It provides an in-depth overview of the fundamentals, key concepts and experimental techniques for eco-friendly synthesis of organic compounds and metal/metal oxide nanoparticles/nanomaterials. It also emphasizes the mechanisms, designing and industrial technologies for green synthesis and its applications. Each chapter brings the recent developments, state of the art, challenges and perspectives which cover all the aspects in one place, and which concern the green synthesis and evolution. Authored by world-renowned experts in a broad range of green chemistry sectors, this book is an archival reference guide for researchers, engineers, scientists and postgraduates working in the field of sustainable science, green chemistry, environmental science, engineering sciences and industrial technologies.

Nanocatalysis Springer

Currently, hemoglobin (Hb)-based oxygen carriers (HBOCs) are leading candidates as red blood cell substitutes. In addition, HBOCs are also potential oxygen therapeutics for treatment of patients with critical ischemic conditions due to atherosclerosis, diabetes and other conditions. This book will provide readers a comprehensive review of topics involved in the HBOC

development. It focusses on current products and clinical applications as well as on emerging technologies and future prospects.

Stimulation and Inhibition of Neurons Springer

Marine organisms have been under research for the last decades as a source for different active compounds with various biological activities and application in agriculture, pharmacy, medicine, environment, and industries. Marine polysaccharides from these active compounds are used as antibacterial, antiviral, antioxidant, anti-inflammation, bioremediations, etc. During the last three decades, several important factors that control the production of phytoplankton polysaccharides have been identified such as chemical concentrations, temperature, light, etc. The current book includes 14 chapters contributed by experts around the world; the chapters are categorized into three sections: Marine Polysaccharides and Agriculture, Marine Polysaccharides and Biological Activities, and Marine Polysaccharides and Industries.

The Attribute of Water John Wiley & Sons

This book gathers the proceedings of the 4th International Conference on Nanotechnologies and Biomedical Engineering, held on September 18-21, 2019, in Chisinau, Republic of Moldova. It continues the tradition of the previous conference proceedings, thus reporting on both fundamental and applied research at the interface between nanotechnologies and biomedical engineering. Topics include: developments in bio-micro/nanotechnologies and devices; biomedical signal processing; biomedical imaging; biomaterials for biomedical applications; biomimetics; bioinformatics and e-health, and advances in a number of related areas. The book offers a timely snapshot of cutting-edge, multidisciplinary research and developments in the field of biomedical and nano-engineering.

Emerging Trends in Mechanical Engineering Springer

Applying the general deterministic approach of systems computational biology, the monograph considers questions related to the biomechanics of the human urinary bladder in conjunction with the peripheral and central nervous systems. The step-by-step development of mathematical models of separate structural elements and their assembly into a unique self-regulatory system offers, for the first time, a holistic overview and allows the investigation of the dynamics of the lower urinary tract system at its hierarchical levels. This book provides a coherent description and explanation for intertwined intracellular pathways in terms of spatiotemporal, whole body, tractable representations which are supported by numerous computational simulations.

Water Bears: The Biology of Tardigrades John Wiley & Sons

The thesis provides the necessary experimental and analytical tools to unambiguously observe the atomically resolved chemical reactions. A great challenge of modern science has been to directly observe atomic motions during structural transitions, and while this was first achieved through a major advance in electron source brightness, the information content was

still limited and new methods for image reconstruction using femtosecond electron diffraction methods were needed. One particular challenge lay in reconciling the innumerable possible nuclear configurations with the observation of chemical reaction mechanisms that reproducibly give the same kind of chemistry for large classes of molecules. The author shows that there is a simple solution that occurs during barrier crossing in which the highly anharmonic potential at that point in nuclear rearrangements couples high- and low-frequency vibrational modes to give highly localized nuclear motions, reducing hundreds of potential degrees of freedom to just a few key modes. Specific examples are given in this thesis, including two photoinduced phase transitions in an organic system, a ring closure reaction, and two direct observations of nuclear reorganization driven by spin transitions. The emerging field of structural dynamics promises to change the way we think about the physics of chemistry and this thesis provides tools to make it happen.