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Marcin Słoma

Nanotechnology Horizons in Food Process Engineering Megh R. Goyal, Santosh K. Mishra, Satish Kumar, 2023-03-10 Although nanotechnology has revolutionized fields such as medicine, genetics, biology, bioengineering, mechanics, and chemistry, its increasing application in the food industry is relatively recent in comparison. Nanotechnology in the food industry is now being explored for creating new flavors, extending food shelf life, and improving food protection and nutritional value, as well as for intelligent nutrient delivery systems, “smart” foods, contaminant detection nanodevices and nanosensors, advanced food processing, antimicrobial chemicals, encapsulation, and green nanomaterials. This new three-volume set addresses a multitude of topical issues and new developments in the field. Volume 1 focuses on food preservation, food packaging and sustainable agriculture, while Volume 2 looks at nanotechnology in food process engineering, applications of biomaterials in food products, and the use of modern nanotechnology for human health. The third volume explores the newest trends in nanotechnology for food applications and their application for improving food delivery systems. Together, these three volumes provide a comprehensive and in-depth look at the emerging status of nanotechnology in the food processing industry, explaining the benefits and drawbacks of various methodologies that will aid in the improvement and development of food product sourcing and food hygiene monitoring methods. Volume 2 discusses nanotechnology use in non-thermal techniques such as high-pressure processing (HPP), pulsed electric fields (PEFs), pulsed light, ultraviolet, microwave, ohmic heating, electrospinning, and nano- and microencapsulation. This volume looks at the role and application of minimal processing techniques such as ozone treatment, vacuum drying, osmotic dehydration, dense phase carbon dioxide treatment, and high-pressure assisted freezing. The successful applications of nanotechnologies on juices, meat and fish, fruits and vegetable slices, food surface, purees, milk and milk products, extraction, drying enhancement, and encapsulation of micro-macro nutrients are also considered. The volume also presents several computer-aided techniques that are emerging in the food processing sector, such as robotics, radio frequency identification (RFID), three-dimensional food printing, artificial intelligence, etc. Significant role of food properties in design of specific food and edible packaging films have been elucidated.

Current Developments in Bioengineering and Biotechnology Ashok Pandey, Sanjay P. Govindwar, Mayur B. Kurade, Byong-Hun Jeon, 2023-02-22 *Advances in Eco-friendly and Sustainable Technologies for the Treatment of Textile Wastewater* delivers a comprehensive overview of the advancements in a variety of treatment approaches with a major emphasis on bioremediation for the removal and degradation of textile dyes. This book summarizes the latest advancements in textile dyes/effluent treatment technologies and evaluates the major physico-chemical and biological processes that are most popular among textile industrial wastewater treatment plants. The book examines recent advanced treatment options, including photocatalysis with the aid of nanotechnology, as well as advanced oxidation processes, with an emphasis on bioremediation methods. Introduces the global scenario of textile pollution, including country-wide industrial contribution, severity, and ecological consequences. Covers both conventional treatment technologies for the removal of synthetic dyes, such as adsorption and coagulation, along with several novel approaches of advanced treatment options, including photocatalysis and advanced oxidation processes. Provides an in-depth analysis of bioremediation approaches, including the application of bacterial, fungal/yeast, microalgae and plants, and enzymatic biotransformation for the degradative metabolism of dyes. Includes genetic engineering, metagenomics, microbial fuel cells, and biofilm-based immobilization techniques and bioreactors.

Proceedings of 3rd Edition of International Conference on Agriculture & Food Chemistry 2018 EuroScicon, 2018-07-17 July 23-24, 2018 Rome, Italy Key Topics : Agricultural And Food Chemistry, Agricultural Chemical Science And Engineering, Agronomy, Agricultural And Food Biotechnology And Nanotechnology, Food Bioactives, Nutrition And Health, Food Chemistry, Food Engineering, Food Processing, Food Safety, Food Science And Technology, Food Packaging, Agricultural And Food Industry, Quality Analysis And Detection Technology In Agricultural And Food Materials,

Market Standards And Regulations In Agricultural & Food Chemistry, Aquaculture, Fisheries, Veterinary Science, ,

Nanoparticle Toxicity and Compatibility Jorddy N. Cruz, 2024-03-15 The book focuses on the interplay between nanoparticles and biological systems. Topics covered include the synthesis, characterization, and application of nanomaterials in tissue engineering; the interaction of nanoparticles with macromolecules; biomedical and food science applications; the cardiovascular toxicity of nanoparticles; colon targeted nano drug delivery systems; the biocompatibility and immunogenicity of nanoparticles; plasmon-enhanced biosensing applications; strategies for enhancing the biocompatibility of nanoparticles; the environmental impact of nanoparticles; as well as the intricate dynamics between nanoparticles and living organisms. Keywords: Tissue Engineering, Cardiovascular Toxicity, Drug Delivery Systems, Plasmon-Enhanced Biosensing, Biocompatibility of Nanoparticles, Ecotoxicology of Nanoparticles, Bioinspired Nanosynthesis, Hepatotoxicity, Nano Drug Delivery, Nanofabrication, Nanorobots, Plasmonics, Probiotics, Protein.

Wearable Technologies Jesús Hamilton Ortiz, 2018-10-03 This edited volume *Wearable Technologies* is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field of computer engineering. The book comprises single chapters authored by various researchers and edited by an expert active in the computer engineering research area. All chapters are complete in themselves but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts.

Energy Aspects of Acoustic Cavitation and Sonochemistry Oualid Hamdaoui, Kaouther Kerboua, 2022-08-06 *Energy Aspects of Acoustic Cavitation and Sonochemistry: Fundamentals and Engineering* covers topics ranging from fundamental modeling to up-scaled experiments. The book relates acoustic cavitation and its intrinsic energy balance to macroscopic physical and chemical events that are analyzed from an energetic perspective. Outcomes are directly projected into practical applications and technological assessments covering energy consumption, thermal dissipation, and energy efficiency of a diverse set of applications in mixed phase synthesis, environmental remediation and materials chemistry. Special interest is dedicated to the sonochemical production of hydrogen and its energetic dimensions. Due to the sensitive energy balance that governs this process, this is seen as a green process for the production of future energy carriers. Provides a concise and detailed description of energy conversion and exchange within the single acoustic cavitation bubble and bubble population, accompanying physical and chemical effects Features a comprehensive approach that is supported by experiments and the modeling of energy concentration within the sonochemical reactor, jointly with energy dissipation and damping phenomenon Gives a clear definition of energy efficiency metrics of industrial sono-processes and their application to the main emergent industrial fields harnessing acoustic cavitation and sonochemistry, notably for the production of hydrogen

Analytical Applications of Functionalized Magnetic Nanoparticles Chaudhery Mustansar Hussain, 2021-07-27 Magnetic nanoparticles (MNPs) uniquely combine superparamagnetic performance with dimensions that are smaller than or similar size to molecular analytes. Recently, functionalized MNPs are predicted to be a driver for technology and business in this century and hold the promise of high performance materials that will significantly influence all aspects of society. Functionalized MNPs are creating new possibilities for development and innovation in different analytical procedures. Despite their participation in modern development, they are in their infancy and largely unexplored for their practical applications in analysis. This book will provide quality research and practical guidance to analytical scientists, researchers, engineers, quality control experts and laboratory specialists. It covers applications of functionalized MNPs in all stages of analytical procedures. Their incorporation has opened new possibilities for sensing, extraction and detection enabling an increase in sensitivity, magnifying precision and improvement in the detection limit of modern analysis. Toxicity, safety, risk, and legal aspects of functionalized MNPs and the future of analytical chemistry with respect to their use is covered. The book provides an integrated approach for advanced analytical methods and techniques for postgraduates and researchers looking for a reference outlining new and

advanced techniques surrounding the applications of functionalized nanomaterials in analytical chemistry.

Functional Nanometer-Sized Clusters of Transition Metals Wei Chen, Shaowei Chen, 2014-08-14 Metal nanoclusters, which bridge metal atoms and nanocrystals, are gaining attention due to their unique chemical and physical properties which differ greatly from their corresponding large nanoparticles and molecular compounds. Their electronic and optical properties are of particular interest for their use in sensing, optoelectronics, photovoltaics and catalysis. The book highlights recent progress and challenges in size-controlled synthesis, size-dependent properties, characterization and applications of metal nanoclusters. Specific topics include organochalcogenolate-stabilized metal nanoparticles, water-soluble fluorescent silver nanoclusters, thiolate-protected Au and Ag nanoclusters, DNA-templated metal nanoclusters, fluorescent platinum nanoclusters and janus nanoparticles by interfacial engineering. Edited by active researchers in the area, the book provides a valuable reference for researchers in the area of functional nanomaterials. It also provides a guide for graduate students, academic and industrial researchers interested in the fundamentals of the materials or their applications.

Organometallic Chemistry E W Abel, F G A Stone, 2007-10-31 Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace. Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials. This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry, main group chemistry, the lanthanides and all aspects of transition metal chemistry. Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research. Written by experts in their specialist fields the series creates a unique service for the active research chemist, supplying regular critical in-depth accounts of progress in particular areas of chemistry. For over 80 years the Royal Society of Chemistry and its predecessor, the Chemical Society, have been publishing reports charting developments in chemistry, which originally took the form of Annual Reports. However, by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born. The Annual Reports themselves still existed but were divided into two, and subsequently three, volumes covering Inorganic, Organic and Physical Chemistry. For more general coverage of the highlights in chemistry they remain a 'must'. Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry. Some titles have remained unchanged, while others have altered their emphasis along with their titles; some have been combined under a new name whereas others have had to be discontinued. The current list of Specialist Periodical Reports can be seen on the inside flap of this volume.

Luminescent Metal Nanoclusters Sabu Thomas, Kuruvilla Joseph, Saritha Appukuttan, Meegle S. Mathew, 2022-06-28 Luminescent Metal Nanoclusters: Synthesis, Characterization, and Applications provides a comprehensive accounting of various protocols used for the synthesis of metal nanoclusters, their characterization techniques, toxicity evaluation and various applications and future prospects. The book provides detailed experimental routes, along with mechanisms on the formation of benign metallic clusters using biomaterials and a comprehensive review regarding the preparation, properties and prospective applications of these nano clusters in various fields, including therapeutic applications. Various methods to protect nanocluster materials to increase their stability are emphasized, including the incorporation of ligands (protein, small molecule, DNA, thiols). This book addresses a gap in the current literature by bringing together the preparation, characterization and applications of all the possible types of reported metal nanoclusters and their hybrids. It is suitable for materials scientists and engineers in academia and those working in research and development in industry. It may also be of interest to those working in the interdisciplinary nanotechnology community, such as physical chemists. Covers the most relevant material categories of luminescent nanoclusters such as metal nanoclusters, nano composites and alloy nanoclusters Provides a

comprehensive overview of the various available methods used for the protection of nanoclusters Discusses the latest advances and future opportunities in addressing challenges in producing benign nanomaterials such as toxicity and stability

Nanocomposite Materials Jyotishkumar Parameswaranpillai,Nishar Hameed,Thomas Kurian,Yingfeng Yu,2016-09-19 This book provides a comprehensive collection of the latest information on nanomaterials and nanocomposites. It covers material synthesis, processing, structure characterization, properties and applications. It presents a coherent treatment of how composite properties depend on nanostructure, and covers cutting-edge topics like bionanocomposites for sustainable development. This book summarizes many developments in the field making it an ideal resource for researchers from industry, academia, government and private research institutions.

Science and Art Antonio Sgamellotti,Brunetto Giovanni Brunetti,Costanza Miliani,2015-11-09 Science and art are increasingly interconnected in the activities of the study and conservation of works of art. Science plays a key role in cultural heritage, from developing new analytical techniques for studying the art, to investigating new ways of preserving the materials for the future. For example, high resolution multispectral examination of paintings allows art historians to view underdrawings barely visible before, while the use of non-invasive and micro-sampling analytical techniques allow scientists to identify pigments and binders that help art conservators in their work. It also allows curators to understand more about how the artwork was originally painted. Through a series of case studies written by scientists together with art historians, archaeologists and conservators, *Science and Art: The Painted Surface* demonstrates how the cooperation between science and humanities can lead to an increased understanding of the history of art and to better techniques in conservation. The examples used in the book cover paintings from ancient history, Renaissance, modern, and contemporary art, belonging to the artistic expressions of world regions from the Far East to America and Europe. Topics covered include the study of polychrome surfaces from pre-Columbian and medieval manuscripts, the revelation of hidden images below the surface of Van Gogh paintings and conservation of acrylic paints in contemporary art. Presented in an easily readable form for a large audience, the book guides readers into new areas uncovered by the link between science and art. The book features contributions from leading institutions across the globe including the Metropolitan Museum of Art, New York; Art Institute of Chicago; Getty Conservation Institute; Opificio delle Pietre Dure, Firenze; National Gallery of London; Tate Britain; Warsaw Academy of Fine Art and the National Gallery of Denmark as well as a chapter covering the Thangka paintings by Nobel Prize winner Richard Ernst.

Hybrid Nanomaterials for Sustainable Applications Janardhan Reddy Koduru,Rama Rao Karri,Nabisab Mujawar Mubarak,2023-04-11 Hybrid Nanomaterials for Sustainable Applications: Case Studies and Applications brings together the latest advances in hybrid nanocomposites and their diverse applications for improved sustainability. The book begins by introducing hybrid nanomaterials, synthesis strategies, and approaches to production for engineering applications. Subsequent sections provide chapters on key application areas, including water purification, nanobiotechnologies, energy storage, and biomedicine, presenting approaches for sustainable application for each usage. Throughout the book, key challenges are addressed, with case studies used to support implementation and improve end applications. This is a valuable resource for researchers and advanced students in nanotechnology, polymer science, sustainable materials, chemistry, chemical engineering, environmental science, and materials engineering, as well as industrial scientists, engineers, and R&D professionals with an interest in hybrid nanomaterials for a range of applications. Offers the latest techniques in the synthesis and preparation of hybrid nanomaterials Addresses challenges and uses case studies to support further development and implementation Opens the door to key sustainable applications across water purification, nanobiotechnologies, energy storage and biomedicine

Nanotechnology in Electronics Visakh P. M.,Artem Semkin,Raneesh Balakrishnan,Sasa Lazovic,2022-10-03 Nanotechnology in Electronics

Enables readers to understand and apply state-of-the-art concepts surrounding modern nanotechnology in electronics Nanotechnology in Electronics summarizes numerous research accomplishments in the field, covering novel materials for electronic applications (such as graphene, nanowires, and carbon nanotubes) and modern nanoelectronic devices (such as biosensors, optoelectronic devices, flexible electronics, nanoscale batteries, and nanogenerators) that are used in many different fields (such as sensor technology, energy generation, data storage and biomedicine). Edited by four highly qualified researchers and professionals in the field, other specific sample topics covered in Nanotechnology in Electronics include: Graphene-based nanoelectronics biosensors, including the history, properties, and fundamentals of graphene, plus fundamentals of graphene derivatives and the synthesis of graphene Zinc oxide piezoelectronic nanogenerators for low frequency applications, with an introduction to zinc oxide and zinc oxide piezoelectric nanogenerators Investigation of the hot junctionless mosfets, including an overview of the junctionless paradigm and a simulation framework of the hot carrier degradation Conductive nanomaterials for printed/flexible electronics application and metal oxide semiconductors for non-invasive diagnosis of breast cancer The fundamental aspects and applications of multiferroic-based spintronic devices and quartz tuning fork based nanosensors. Containing in-depth information on the topic and written intentionally to help with the practical application of concepts described within, Nanotechnology in Electronics is a must-have reference for materials scientists, electronics engineers, and engineering scientists who wish to understand and harness the state of the art in the field.

Innovation in Energy Systems Taha Selim Ustun,2019-11-27 It has been a little over a century since the inception of interconnected networks and little has changed in the way that they are operated. Demand-supply balance methods, protection schemes, business models for electric power companies, and future development considerations have remained the same until very recently. Distributed generators, storage devices, and electric vehicles have become widespread and disrupted century-old bulk generation - bulk transmission operation. Distribution networks are no longer passive networks and now contribute to power generation. Old billing and energy trading schemes cannot accommodate this change and need revision. Furthermore, bidirectional power flow is an unprecedented phenomenon in distribution networks and traditional protection schemes require a thorough fix for proper operation. This book aims to cover new technologies, methods, and approaches developed to meet the needs of this changing field.

Design and Optimization of Biogas Energy Systems Prashant Baredar,Vikas Khare,Savita Nema,2020-06-18 Design and Optimization of Biogas Energy Systems presents an overview on planning, implementing, assessing and optimizing biogas systems, from fuel conversion to power generation. The book introduces the fundamental elements of bioenergy systems, highlighting the specificities of biogas systems. It discusses the current state of their adoption at a global level and the challenges faced by designers and operators. Methods for sizing, simulating and modeling are discussed, including prefeasibility analysis, available production processes, integration into hybrid energy systems, and the application of Big Data analysis and game theory concepts. All chapters include real-life examples and exercises to illustrate the topics being covered. The book goes beyond theory to offer practical knowledge of methods to reach solutions to key challenges in the field. This is a valuable resource for researchers, practitioners and graduate students interested in developing smart, reliable and sustainable biogas technologies. Provides an applied approach to biogas systems, from technology fundamentals, to economic and environmental assessment Explores control methods and reliability prediction of each system component, including modeling and simulation with HOMER and MATLAB Discusses the use of Big Data analysis, numerical methods, and Game Theory for plant assessment

Porous Polymer Science and Applications Inamuddin,Mohd Imran Ahamed,Rajender Boddula,2022-05-02 Porous Polymer Science and Applications aims to provide recent developments and advances in synthesis, tuning parameters, and applications of porous polymers. This book brings together reviews written by highly accomplished panels of experts working in the area of porous polymers. It encompasses basic studies and addresses topics of

novel issues concerning the applications of porous polymers. Chapter topics span basic studies, novel issues, and applications addressing all aspects in a one-stop reference on porous polymers. Applications discussed include catalysis, gas storage, energy and environmental sectors making this an invaluable guide for students, professors, scientists and R&D industrial experts working in the field of material science and engineering and particularly energy conversion and storage. Additional features include: Provides a comprehensive introduction to porous polymers addressing design, synthesis, structure, properties and characterization. Covers task-specific applications of porous polymers. Explores the advantages and opportunities of these materials for most major fields of science and engineering. Outlines novel research areas and potential development and expansion areas.

Low-Dimensional Chalcogenide Nanomaterials Krystian Mistewicz, 2023-03-01 This book provides a deep insight into recent achievements in synthesis, investigation, and applications of the low-dimensional chalcogenide nanomaterials. The large number of interesting phenomena occur in these compounds, including ferroelectric, piezoelectric, pyroelectric, electrocaloric, Seebeck, photovoltaic, and ferroelectric-photovoltaic effects. Furthermore, the outstanding photoelectrochemical, photocatalytic, and piezocatalytic properties of the chalcogenide nanomaterials have been revealed. Since many chalcogenide semiconductors possess both photoactive and ferroelectric properties, they are recognized as photoferroelectrics. It presents an overview of fabrication of chalcogenide nanomaterials using different methods: mechanical milling of bulk crystals, liquid-phase exfoliation, vapor phase growth, hydro/solvothermal methods, synthesis under ultrasonic irradiation, microwave synthesis, laser/heat-induced crystallization, electrospinning, successive ionic layer adsorption and reaction. The strategies of the chalcogenide nanomaterials processing for construction of functional devices are presented. The book describes solution processing for thin films preparation, spin-coating deposition of polymer composites, solution casting, films deposition via drop-casting, high pressure compression of nanowires into the bulk samples, pressure assisted sintering, and electric field assisted alignment of nanowires. The applications of the chalcogenide nanomaterials for mechanical/thermal energy harvesting and energy storage are presented. Major challenges and emerging trends in fabrication, characterization, and future applications of low-dimensional chalcogenide nanomaterials are discussed. A wealth of information for scholars, graduate students, and engineers involved in research of nanomaterials.

Sonochemistry and the Acoustic Bubble Franz Grieser, Pak-Kon Choi, Naoya Enomoto, Hisashi Harada, Kenji Okitsu, Kyuichi Yasui, 2015-04-16 Sonochemistry and the Acoustic Bubble provides an introduction to the way ultrasound acts on bubbles in a liquid to cause bubbles to collapse violently, leading to localized 'hot spots' in the liquid with temperatures of 5000° celcius and under pressures of several hundred atmospheres. These extreme conditions produce events such as the emission of light, sonoluminescence, with a lifetime of less than a nanosecond, and free radicals that can initiate a host of varied chemical reactions (sonochemistry) in the liquid, all at room temperature. The physics and chemistry behind the phenomena are simply, but comprehensively presented. In addition, potential industrial and medical applications of acoustic cavitation and its chemical effects are described and reviewed. The book is suitable for graduate students working with ultrasound, and for potential chemists and chemical engineers wanting to understand the basics of how ultrasound acts in a liquid to cause chemical and physical effects. Experimental methods on acoustic cavitation and sonochemistry Helps users understand how to readily begin experiments in the field Provides an understanding of the physics behind the phenomenon Contains examples of (possible) industrial applications in chemical engineering and environmental technologies Presents the possibilities for adopting the action of acoustic cavitation with respect to industrial applications

Additive Manufacturing of Structural Electronics Marcin Słoma, 2024-05-06 Additive manufacturing, also called rapid prototyping or 3D printing is a disruptive manufacturing technique with a significant impact in electronics. With 3D printing, bulk objects with circuitry are embedded in the volume of an element or conformally coated on the surface of existing parts, allowing design and manufacturing of smaller and lighter products with fast customisation. The book covers both materials selection and techniques. The scope also covers the research areas of additive manufacturing of passive

and active components, sensors, energy storage, bioelectronics and more.

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