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Applied Mechanics Reviews CRC Press

Advances in Microwave Chemistry discusses the novel bond formation methodologies, synergistic effects of microwaves with other entities, sample preparation including digestion, combustion, and extraction techniques, as well as selectivity in chemical processes. Recent updates are provided on microwave-assisted syntheses of pharmacologically significant aza-, oxo- and other heterocycles, including lactams, nucleosides, bile acids and sterols, the preparation of nanomaterials, composites, and absorber layer materials for thin film. This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry. Key Features: Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses, the biological impact of products formed in reactions, pharmacological features, and environmental sustainability of the procedures Explains microwave-induced reactions on structurally complex bile acids and sterols Stands as a valuable and unique addition to the well-established book series, New Directions in Organic and Biological Chemistry

Springer Handbook of Inorganic Photochemistry Prentice Hall

New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Biofilms is divided into three sections: microbial adhesion/biofilms in medical settings, microbial adhesion/biofilms in agriculture, and microbial adhesion/biofilm in the environment and industry. Chapters cover adhesion and biofilm formation by pathogenic microbes on tissue and on indwelling medical devices, including sections on human infections, microbial communication during biofilm mode of growth, host defense and antimicrobial resistance, and more. Other sections cover the biofilms of agriculturally important and environmental friendly microbes, including biofilm formation on plants, in soil, and in aquatic environments. Finally, the latest scientific research on microbial adhesion and biofilm formation in the environment and in industry is covered. Provides an overview on the growth, structure, cell-to-cell interactions, and control/dispersal of bacterial and fungal of in vitro and in vivo biofilms Presents an overview on the microbial adhesion, biofilm formation and structures of single-species and multi-species biofilms on human tissues/medical devices, agriculture, environment and chemical industries Includes chapters on microbial biofilms of pathogenic microbes on human tissues and in medical indwelling devices Covers factors affecting microbial biofilm, adhesion and formation

Springer Nature

NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976, pre-dating the prestigious INIS database, which began in 1970. NSA existed as a printed product (Volumes 1-33) initially, created by DOE's predecessor, the U.S. Atomic Energy Commission (AEC). NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors, plus other agencies and international organizations, universities, and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings, and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.

CRC Concise Encyclopedia of Nanotechnology Elsevier

Nuclear Science Abstracts

Bibliography of Medical Reviews John Wiley & Sons

These are the proceedings of the 3rd International Conference on Engineering Sciences and Technologies (ESaT 2018), held from 12th - 14th September 2018 in the High Tatras Mountains, Tatranské Matliare, Slovak Republic. ESaT 2018 was organized under the auspices of the Faculty of Civil Engineering, Technical University of Košice - Slovak Republic in collaboration with Peter the Great St. Petersburg Polytechnic University - Russia after the successful organization with excellent feedback of the previous international conferences ESaT 2015 and ESaT 2016. The proceedings is covering various topics and disciplines in civil engineering sciences, such as Buildings and Architectural Engineering, Bearing Structures, Material and Environmental Engineering, Construction Technology and Management, Building Physics and Facilities, Geodesy, Surveying and Mapping, Geotechnics and Traffic Engineering. The proceedings report on new and original progress and trends in various fields of engineering sciences that will be of interest to a wide range of academics and professionals from university and industry. 116 papers originating from more than 10 countries have been accepted for publication in the conference proceedings.

Each accepted paper was reviewed by two reviewers, selected according to the scientific area and orientation of the paper, which guarantees topicality, quality and an advanced level of the presented results.

The Chemical News Elsevier

Water is synonymous with life. This has been the case since pre-historic time to the modern era. For the first time, humanity faces a crisis that eclipses the energy crisis, which has often incapacitated the global economy. The Climate-Water-Food nexus epitomizes our current civilization that depends on energy as the driver. Many recognize this crisis as a product of fossil fuel production, which allegedly triggered climate change and the “climate change debate.” Others predict the onslaught of “water wars” in the coming decades. As the world gears up to another lineup of empty promises and ensuing chaos, this book turns this crisis on its head and shows the source of the water crisis. The science behind the water cycle is described in clear language, without resorting to dogmatic assertions and spurious assumptions. The role of the sun, natural carbon dioxide (CO2) and water and the need to maintain natural processes free from artificial chemicals are discussed in detail. The book makes it clear how most of the currently used purification techniques violates the natural cycle involving sunlight, CO2 and water, and thus become unsustainable. A series of water purification techniques, as usable for drinking, agricultural and industrial applications are presented. The advantages of these techniques and their long-term sustainability are highlighted, with discussion on improvements in the future. Whether for the engineer or scientist working in the field or laboratory or the student, this is a must-have for any engineer, scientist, student, or policymaker.

Advances and Trends in Engineering Sciences and Technologies III John Wiley & Sons

The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology.The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the

Composites for Environmental Engineering Association of Scientists, Developers and Faculties (ASDF)

Composites are materials made from two or more constituent materials with significantly different physical or chemical properties. The two materials combine together to give a new material with higher strength, toughness, stiffness, but also a higher resistance to creep, corrosion, wear or fatigue compared to conventional materials. It is composed primarily of a matrix i.e. a continuous phase which is armoured with secondary discontinues reinforcement phase. These materials have been used in a variety of products viz. spacecrafts, sporting goods, catalyst, sensors, actuators, biomedical materials, batteries, cars, furniture, aircraft components, etc. This book focusses on processing, properties of various types of composite materials, as well as their environmental engineering applications. This book examines the current state of art, new challenges, and opportunities of composites in environmental engineering. The chapters in this book covers nearly every topic related to composites in environmental engineering in four broad perspectives: (i) classification of composites (ii) green/hybrid synthesis and characterization of nano and biocomposites (iii) processing of composite materials (iv) state-of–the-art in fabricating the composites - nano and biocomposites - for environmental applications.

Emerging Techniques for Treatment of Toxic Metals from Wastewater Nuclear Science AbstractsNSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976, pre-dating the prestigious INIS database, which began in 1970. NSA existed as a printed product (Volumes 1-33) initially, created by DOE's predecessor, the U.S. Atomic Energy Commission (AEC). NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors, plus other agencies and international organizations, universities, and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings, and journal articles from worldwide sources are also included. Abstracts and full text are provided if available.Telegraphic Journal and Electrical ReviewAdvances and Trends in Engineering Sciences and Technologies III

Green Technologies for the Defluoridation of Water focuses on the application of green technologies for the defluoridation of water using adsorption processes and nanoadsorbents. Chapters cover the environmental and health effects of fluoride presence in ambient air, food, water, soil and vegetation, focus on approaches for analytical methods to determine the presence of fluoride in water, review various types of conventional and advanced techniques used for removal, focus on adsorption as a green technology, review various types of adsorbents, and emphasize a techno-economic assessment with respect to conventional and non-conventional technologies. This book provides readers with comprehensive methods and applications, while also presenting the global impacts of fluoride ion on the environment, including in drinking water, food, air, soil and vegetables. The authors compare different defluoridation technologies in detail, providing researchers in environmental science and nanotechnology fields with the information they need to create solutions on how to safely remove fluoride from water in a sustainable and cost-effective way. Presents the application of green technology for the defluoridation of water using adsorption processes and nanoadsorbents Includes methods for

effectively removing fluoride ions from potable water and water bodies Provides techniques that are eco-friendly, without toxic chemicals, and with lower cost options

Nuclear Science Abstracts Elsevier

In recent decades, scientific insight into the chemistry of water has increased enormously, leading to the development of advanced wastewater and water purification technologies. However, the quality of freshwater resources has continually deteriorated worldwide, both in industrialized and developing countries. Although traditional wastewater technologies focus on the removal of suspended solids, nutrients and bacteria, hundreds of organic pollutants occur in wastewater and urban surface waters. These new pollutants are synthetic or naturally occurring chemicals that are not often monitored in the environment but have the potential to enter the environment and cause known or suspected adverse ecological and / or human health effects. Collectively referred to as the "emerging contaminants," they are mostly derived from domestic use and occur in trace concentrations ranging from pico to micrograms per liter. Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected, leading to the contamination of the receiving water. As such, there is a need for advanced wastewater treatment process that is capable of removing environmental contaminants to ensure safe fresh water supplies. This book explains the biological and chemical wastewater treatment technologies. The biological wastewater treatment processes presented include: (1) bioremediation of wastewater such as aerobic and anaerobic treatment; (2) phytoremediation of wastewater using engineered wetlands, rhizofiltration, rhizodegradation, phytodegradation, phytoaccumulation, phytotransformation and hyperaccumulators; and (3) mycoremediation of wastewater. The chemical wastewater treatment processes discussed include chemical precipitation, ion exchange, neutralization, adsorption and disinfection. In addition, the book describes wastewater treatment plants in terms of plant size, layout and design as well as installation location. Also presenting the latest, innovative effluent water treatment processes, it is a valuable resource for biochemical and wastewater treatment engineers, environmental scientists and environmental microbiologists.

Advances in Microwave Chemistry CRC Press

Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development provides comprehensive and advanced information on integrated environmental technologies and their limitations, challenges and potential applications in treatment of environmental pollutants and those that are discharged in wastewater from industrial, domestic and municipal sources. The book covers applied and recently developed integrated technologies to solve five major trends in the field of wastewater treatment, including nutrient removal and resource recovery, recalcitrant organic and inorganic compounds detoxification, energy saving, and biofuel and bioenergy production for environmental sustainability. The book provides future directions to young researchers, scientists and professionals who are working in the field of bioremediation and phytoremediation to remediate wastewater pollutants at laboratory and field scale, for sustainable development. Illustrates the importance of various advanced oxidation processes in effluent treatment plants Describes underlying mechanisms of constructed wetland-microbial fuel cell technologies for the degradation and detoxification of emerging organic and inorganic contaminants discharged in wastewater Highlights the reuse and recycling of wastewater and recovery of value-added resources from wastewater Focuses on recent advances and challenges in integrated environmental technologies, constructed wetland-microbial fuel cell, microbial electrochemical-constructed wetlands, biofilm reactor-constructed wetland, and anammox- microbial fuel cell technology for sustainable development Illustrates the importance of microbes and plants in bio/phytoremediation and wastewater treatment

Pharmaceutical Record and Weekly Market Review CRC Press

The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications. The first section of the book describes the historical development of inorganic photochemistry, along with the fundamentals related to this multidisciplinary scientific field. The main experimental techniques employed in state-of-art studies are described in detail in the second section followed by a third section including theoretical investigations in the field. In the next three sections, the photophysical and photochemical properties of coordination compounds, supramolecular systems and inorganic semiconductors are summarized by experts on these materials. Finally, the application of photoactive inorganic compounds in key sectors of our society is highlighted. The sections cover applications in bioimaging and sensing, drug delivery and cancer therapy, solar energy conversion to electricity and fuels, organic synthesis, environmental remediation and optoelectronics among others. The chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research. This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia.

The Electrical Review John Wiley & Sons

ICSSCCET 2015 will be the most comprehensive conference focused on the various aspects of advances in Systems, Science, Management, Medical Sciences, Communication, Engineering, Technology, Interdisciplinary

Research Theory and Technology. This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Interdisciplinary Research Theory and Technology. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The goal of this conference is to bring together the researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Interdisciplinary Research Theory and Technology.

Telegraphic Journal and Electrical Review Springer Nature

Algal and sustainable technologies: Bioenergy, Nannotechnology and Green chemistry is an interdisciplinary overview of the world’s major problems; water scarcity, clean environment and energy and their sustenance remedy measures using microalgae. It comprehensively presents the way to tackle the socio-economic issues including food, feed, fuel, medicine and health and also entails the untapped potential of microalgae in environmental management, bioenergy solution and sustainable synthesis of pharmaceutical and nutraceutical products. This book basically emphasizes the success of algae as wonderful feed stocks of future and provides upto date information and sustainable and recreational outlook towards degrading environment and energy crisis. Applicability of fast emerging algae based nanotechnology in bioremediation and production of nanoparticle (AuNP, AgNP etc) are beautifully described along with latest research and findings. Key features: The "waste to best to income" strategies are the main concern of the book and take the edge off the problem of pollution, energy and income. Elucidate the sustainable phycoremediation and nanoparticle functions as low cost approach for various ecosystem services. Information regarding pharmaceuticals, nutraceuticals and other algae based value added product synthesis and fate are comprehensively discussed. Knowledge resource, latest research, findings and prospects presented in an accessible manner for researchers, students, eminent scientists, entrepreneurs, professionals and policy maker.

Proceedings of the International Conference on Systems, Science, Control, Communication, Engineering and Technology 2015 Elsevier

Includes section, "Recent book acquisitions" (varies: Recent United States publications) formerly published separately by the U.S. Army Medical Library.

Water and Gas Review

Emerging Techniques for Treatment of Toxic Metals from Wastewater explores the different physical and chemical methods that can be used to remove toxins from wastewater, including adsorption, solvent extraction, ion exchange, precipitation, filtration and photocatalytic degradation. Bringing together contributions from leading experts in the field, the book covers each of the different techniques in detail, combining emergent research outcomes with fundamental theoretical concepts to provide a clear appraisal of the different techniques available, along with their applications. It is an essential recourse for researchers, industrialists and students concerned with the remediation of toxic metals from water and wastewater. Covers the various techniques for metal removal and their applications in a single source Addresses emerging technologies; chemical, physical, and biological including nanotechnology Brings together novel techniques and their applications for enhancing large scale industrial production signposting opportunities for significant enhancements

Readers' Guide to Periodical Literature

Sustainable development is a very prevalent concept of modern society. This concept has appeared as a critical force in combining a special focus on development and growth by maintaining a balance of using human resources and the ecosystem in which we are living. The development of new and advanced materials is one of the powerful examples in establishing this concept. Green and sustainable advanced materials are the newly synthesized material or existing modified material having superior and special properties. These fulfil today’s growing demand for equipment, machines and devices with better quality for an extensive range of applications in various sectors such as paper, biomedical, textile, and much more. Volume 2, provides chapters on the valorization of green and sustainable advanced materials from a biomedical perspective as well as the applications in textile technology, optoelectronics, energy materials systems, and the food and agriculture industry.

Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development

Sustainable Water Purification

Indiana Register