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VAZQUEZ RILEY

Bioremediation and Sustainable Technologies for Cleaner Environment MDPI

Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide. Water Management: Social and Technological Perspectives discusses developments in energy-efficient water production, management, wastewater treatment, and social and political aspects related to water management and re-use of treated water. It features a scientific and technological perspective to meeting current and future needs, discussing such technologies as membrane separation using reverse osmosis, the use of nanoparticles for adsorption of impurities from wastewater, and the use of thermal methods for desalination. The book also discusses increasing the efficiency of water usage in industrial, agricultural, and domestic applications to ensure a sustainable system of water production, usage, and recycling. With 30 chapters authored by internationally renowned experts, this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue.

Efficient Management of Wastewater from Manufacturing Royal Society of Chemistry

This proceedings book presents the main findings of the 13th International Seminar on Polymer Science and Technology (ISPST 2018), which was held at Amirkabir University of Technology, Tehran, on November 10–22, 2018. This forum was the culmination of more than three decades of academic and industrial activities of Iranian scholars and professionals, and the participation of many notable international scientists, in covering various important polymer-related subjects of concern to Iran and the world at large, including polymer synthesis, processing and properties, as well as issues concerning polymer degradation, stability, and environmental aspects. For the past half a century, the growing concern for advancing human health, quality of life, and – especially in the last few decades – avoiding and combating environmental pollution have shaped and driven scientific activities geared toward the creation of smart materials that are compatible with the human body, and have prompted scientists and technologists to pursue research using natural and sustainable sources. This book highlights efforts to responsibly address the problems caused by, and which can potentially be solved by, polymers and plastics.

Recent Developments in Waste Management Springer Nature

The hydrogeological aspect of groundwater science is universal and applied in nature to have a sustainable water resource development with social, economic, ecological, cultural and aesthetic background. Since 99% of the world's fresh available water is groundwater; yet, the majority of financial resources are directed to surface water found in rivers and lakes. This serious imbalance requires urgent redress. This volume addresses the issue to facilitate the joint analysis of groundwater management studies and problems faced by scientist, engineers, managers and other scholars from natural and applied sciences. Significant financial support is required for basic groundwater research if sustainable development is to be a realistic goal. As a fresh water resource, groundwater has major advantages over surface water. This is the basic idea that explicitly appears in almost all paper of this book. The authors have tried to focus their task on those topics that seemed to us more urgent and relevant and have paid much attention to questions related to management of aquifers, groundwater pollution, the long-term problems and the key issues in developing countries, where majority of world population live and where at present enormous groundwater abstraction occurs. We (editors) have dissipated proper information in a systematic scientific manner to make the concept of groundwater management and sustainability understandable to everyone, through this book. The book provides a platform to

bring together earth scientists, professionals from chemical and engineering science disciplines, public health professionals and social scientists involved with the management and development of groundwater resources. The book is expected to reflect the current understanding of all the issues related to management of groundwater resources and their sustainable use.

Acrylates: Advances in Research and Application: 2011 Edition MDPI

This proceedings volume contains a collection of 20 papers from the following symposia held during the 2015 Materials Science and Technology (MS&T '15) meeting: 7th International Symposium on Green and Sustainable Technologies for Materials Manufacturing Processing Materials for Nuclear Applications and Extreme Environments Materials Issues in Nuclear Waste Management in the 21st Century Nanotechnology for Energy, Healthcare and Industry Materials for Processes for CO2 Capture, Conversion and Sequestration Hybrid Organic – Inorganic Materials for Alternative Energy

Social and Technological Perspectives Springer

Environmental analysis techniques have advanced due to the use of nanotechnologies in improving the detection sensitivity and miniaturization of the devices in analytical procedures.

These allow for developments such as increases in analyte concentration, the removal of interfering species and improvements in the detection limits. Bridging a gap in the literature, this book uniquely brings together state-of-the-art research in the applications of novel nanomaterials to each of the classical components of environmental analysis, namely sample preparation and extraction, separation and identification by spectroscopic techniques. Special attention is paid to those approaches that are considered greener and reduce the cost of the analysis process both in terms of chemicals and time consumption. Advanced undergraduates, graduates and researchers at the forefront of environmental science and engineering will find this book a good source of information. It will also help regulators, decision makers, surveillance agencies and the organizations assessing the impact of pollutants on the environment.

Proceedings of the 3rd International Conference on Separation Technology CRC Press

This book reviews adsorption techniques to clean wastewater, with focus on pollution by dyes and heavy metals. Advanced adsorbents include carbon nanomaterials, biomass, cellulose, polymers, clay, composites and chelating materials.

Material Science Technology and Global Sustainability II Springer

Offers an overview of the recent theoretical and practical results achieved in gas-solid (G/S), liquid-solid (L/S), and gas-liquid (G/L) adsorption research.

Fundamentals and Applications CRC Press

Air and water pollution occurs when toxic pollutants of varying kinds (organic, inorganic, radioactive and so on) are directly or indirectly discharged into the environment without adequate treatment to remove these potential pollutants. There are a total of 13 book chapters in three sections contributed by significant number of expert authors around the world, aiming to provide scientific knowledge and up-to-date development of various solid wastes based cost-effective adsorbent materials and its sustainable application in the removal of contaminates/pollutants from air, gas and water. This book is useful for the professions, practicing engineers, scientists, researchers, academics and undergraduate and post-graduate students' interest on this specific area. ? Key Features: • Exclusive compilation of information on use of industrial and agricultural waste based adsorbents for air and water pollution abatement. • Explores utilization of industrial solid wastes in adsorptive purification and agricultural and agricultural by-products in separation and purification. • Discusses cost-effective solid wastes based emerging adsorbents. • Alternative adsorbents in the removal of a wide range of contaminants and pollutants from water is proposed. • Includes performance of unit operations in waste effluents treatment.

Sustainable Gold Mining Wastewater Treatment by Sorption Using Low-Cost Materials Springer Nature

Sorption technique was employed to remove heavy metals from gold mining effluent using natural and plant materials for sustainability. An assessment of the effluent quality of a gold mining company in Ghana indicated that arsenic, copper and cyanide were the major pollutants in the process effluent. Arsenic and copper were successfully removed from the effluent by the studied materials. The research showed that the down-flow fixed-bed treatment configuration is an ideal system for the simultaneous removal of copper and arsenic from low concentration gold mining effluent, in addition to other heavy metals present in very low concentrations.

Synthesis, Characterization and their Applications MDPI

Wastes: Solutions, Treatments and Opportunities II contains selected papers presented at the 4th edition of the International Conference Wastes: Solutions, Treatments and Opportunities, that took place 25-26 September 2017 at the Faculty of Engineering of the University of Porto, Porto, Portugal. The Wastes conference, which takes place biennially, is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance. The published papers focus on a wide range of topics, including: Wastes as construction materials, Wastes as fuels, Waste treatment technologies,MSW management, Recycling of wastes and materials recovery, Wastes from new materials (nanomaterials, electronics, composites, etc.), Environmental, economic and social aspects in waste management and Circular economy.

Plant-Based Natural Products CRC Press

Advanced Water Treatment: Adsorption discusses the application of adsorption in water purification. The book reviews research findings on the preparation of five different nano/microcellulose-based adsorbents, their characterization, the study of adsorption kinetics and isotherms, the determination of adsorption mechanisms, and an evaluation of adsorbents' regeneration properties. The book describes modification microfibrillated cellulose (MFC), the use of succinic anhydride modified mercerized nanocellulose, and aminosilane and hydroxyapatite modified nanostructured MFC for the removal of heavy metals from aqueous solutions. Final sections describe the use of aminosilane, epoxy and hydroxyapatite modified MFC as a promising alternative for H2S removal from aqueous solutions, along with new findings on the adsorption properties of carbonated hydroxyapatite modified MFC as multifunctional adsorbent for the removal of both cations and anions ions from water. Includes the most recent research on advanced water treatment by adsorption Provides the latest updates on novel adsorbents for water purification Describes REE removal using various adsorbents Covers a wide range of methods and their integration

Advanced Materials for Wastewater Treatment John Wiley & Sons

Efficient Management of Wastewater from Manufacturing is an accessible research compendium, highly useful for anyone involved with the phytosanitaries, food and beverage, pharmaceutical, or textile industries. The editor, Victor Monsalvo, is a well-respected expert in the field who has included many of his own studies. He has also enlisted articles from other researchers from around the world. Together, they offer a range of treatment methodologies for manufacturing wastewater, including anaerobic processes and catalyzation. They focus on advanced treatment processes that would improve current efficiency and reduced energy costs. Feasibility and potential problems are also thoroughly discussed, creating a realistic and practical research collection. Included within the book are chapters on the following topics: An overview of pesticide toxicity More efficient anaerobic treatments for agricultural wastewater Wastewater treatment methodologies for specific sectors of the food-production industry, including slaughterhouses, fish processing plants, dairies,

fruit canning factories, and wineries Biological treatment systems for wastewater containing cosmetic and pharmaceutical chemicals and byproducts Improved methodologies for removing dye from textile wastewater The range of topics will be of practical use to chemical, civil, and environmental engineers. Researchers at the graduate level will find here a wealth of studies that will prove fruitful for future investigation.

WASTES – Solutions, Treatments and Opportunities II I. K. International Pvt Ltd

This book discusses different strategies that can be adopted by agriculture and industry to enhance CO₂ sequestration and reduce the impacts of global warming and climate change. Written by researchers from different fields, chapters cover such topics as the management of agricultural systems with the implementation of agronomic practices that can reduce greenhouse gas emissions and increase soil carbon stocks, the technology of adsorption on activated carbon from low-cost raw material, and the effective methods of carbon capture and storage, among others. This volume is a useful reference for the general public, undergraduate and graduate students, and researchers who aim to deepen their knowledge of those topics.

Advances in Materials Science for Environmental and Energy Technologies V Elsevier

This volume includes the papers presented during the 1st Euro-Mediterranean Conference for Environmental Integration (EMCEI) which was held in Sousse, Tunisia in November 2017. This conference was jointly organized by the editorial office of the Euro-Mediterranean Journal for Environmental Integration in Sfax, Tunisia and Springer (MENA Publishing Program) in Germany. It aimed to give a more concrete expression to the Euro-Mediterranean integration process by supplementing existing North-South programs and agreements with a new multilateral scientific forum that emphasizes in particular the vulnerability and proactive remediation of the Euro-Mediterranean region from an environmental point of view. This volume gives a general and brief overview on current research focusing on emerging environmental issues and challenges and its applications to a variety of problems in the Euro-Mediterranean zone and surrounding regions. It contains over five hundred and eighty carefully refereed short contributions to the conference. Topics covered include (1) innovative approaches and methods for environmental sustainability, (2) environmental risk assessment, bioremediation, ecotoxicology, and environmental safety, (3) water resources assessment, planning, protection, and management, (4) environmental engineering and management, (5) natural resources: characterization, assessment, management,

and valorization, (6) intelligent techniques in renewable energy (biomass, wind, waste, solar), (7) sustainable management of marine environment and coastal areas, (8) remote sensing and GIS for geo-environmental investigations, (9) environmental impacts of geo/natural hazards (earthquakes, landslides, volcanic, and marine hazards), and (10) the environmental health science (natural and social impacts on Human health). Presenting a wide range of topics and new results, this edited volume will appeal to anyone working in the subject area, including researchers and students interested to learn more about new advances in environmental research initiatives in view of the ever growing environmental degradation in the Euro-Mediterranean region, which has turned environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare.

CO₂ Sequestration Springer

Nanomaterials in Chromatography: Current Trends in Chromatographic Research Technology and Techniques provides recent advancements in the wide variety of chromatographic techniques applied to nanotechnology. As nanomaterials' unique properties can improve detection sensitivity and miniaturize the devices used in analytical procedures, they can substantially affect the evaluation and analysis ability of scientists and researchers and foster exciting developments in separation science. The book includes chapters on such crucial topics as the use of nanomaterials in sample preparation and the legalization of nanomaterials, along with a section on reducing the cost of the analysis process, both in terms of chemicals and time consumption. Presents several techniques for nanomaterials in chromatography, including well-known materials like carbon nanomaterials and functionalized nanomaterials Includes suggested readings at the end of each chapter for those who need further information or specific details, from standard handbooks, to journal articles Covers not only applications of nanomaterials in chromatography, but also their environmental impact in terms of toxicity and economic effects

Adsorption Springer Nature

This volume of the journal presents readers with the collection of papers by results of the 4th International Conference on Global Sustainability and Chemical Engineering (ICGSCE 2018) which was successfully held during 5-6 September 2018 in Kuala Lumpur, Malaysia. The topics mentioned in this collection cover a wide range of modern materials science and chemical engineering in the aspect of clean and sustainable development.

Advanced Environmental Analysis John Wiley & Sons

This book is a printed edition of the Special Issue "Advances in Marine Chitin and Chitosan" that was published in Marine Drugs

Phytoremediation Allied Publishers

This book includes details on the environmental implications of recycling, modeling of recycling, processing of recycled materials, recycling potential of materials, characterisation of recycled materials, reverse logistics, case studies of recycling various materials etc.

Novel Bioderived Composites from Wastes CRC Press

This book contains papers presented in the 3rd International Conference on Separation Technology 2020 (ICoST 2020) held from 15 to 16th August 2020 at Johor, Malaysia. This proceeding contains papers presented by academics and industrial practitioners showcasing the latest advancements and findings in field of separation technology. The papers are categorized under the following tracks and topics of research: Environment Engineering Biotechnology Adsorption and Adsorption Technology Wastewater Treatment ICoST 2020 covers multidisciplinary perspectives on separation research and aims to promote scientific information interchange between academics, researchers, graduates and industry professionals worldwide. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

Sustainable Design in Construction, Materials and Processes Elsevier

Synthesis of Nanostructured Materials in Near and/or Supercritical Fluids: Methods, Fundamentals and Modeling offers a comprehensive review of the current status of research, development and insights on promising future directions, covering the synthesis of nanostructured materials using supercritical fluid-based processes. The book presents fundamental aspects such as high-pressure phase behavior of complex mixtures, thermodynamics and kinetics of adsorption from supercritical solutions, mechanisms of particle formation phenomena in supercritical fluid-based processes, and models for further development. It bridges the gap between theory and application, and is a valuable resource for scientists, researchers and students alike. Includes thermodynamic and mass transfer data necessary for industrial plant design Explains the mechanisms of reactions in a supercritical fluid environment Lists numerous industrial processes for the production of many consumer products