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Applied Water Science, Volume 2 Bioremediation: Applications for Environmental Protection and Management Mathematical Reviews Sustainable Materials for Sensing and Remediation of Noxious Pollutants Bulletin of Pure & Applied Sciences Chinese Journal of Acoustics Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents The Growth of Islamic Finance and Banking Applied Bioremediation Green Adsorbents to Remove Metals, Dyes and Boron from Polluted Water Metals in Water Nuclear Science Abstracts Bulletin of the Malaysian Mathematical Sciences Society INIS Atomindex 4 Journal of Radioanalytical Chemistry Sustainable Water Technologies Biosorption for Wastewater Contaminants Environmental Chemistry for a Sustainable World Indian Science Abstracts Thermodynamics of Newtonian and non-Newtonian nanofluids with recent advancements Environmental Monitoring and Remediation Using Microbiotechnology Quality of Service – IWQoS 2005 Bulletin of the Iranian Mathematical Society References to Contemporary Papers on Acoustics Energy Research Abstracts Ceramic Abstracts Metal Phosphates and Phosphonates Nano-biosorbents for Decontamination of Water, Air, and Soil Pollution Artificial Intelligence: Concepts, Methodologies, Tools, and Applications Perovskite Metal Oxides Current Advancements in Stereo Vision Engineered Materials Abstracts Journal of the Indian Chemical Society Journal of the Indian Chemical Society Assessing and addressing health inequities and disparities: The role of health informatics Russian Journal of Physical Chemistry Surface Engineering Remediation Measures for Radioactively Contaminated Areas

Applied Water Science, Volume 2 2021-08-26

applied water science volume 2 the second volume in a new two volume set on applied water science this book provides understanding occurrence identification toxic effects and control of water pollutants in an aquatic environment using green chemistry protocols the high rate of industrialization around the world has led to an increase in the rate of anthropogenic activities which involve the release of different types of contaminants into the aquatic environment this generates high environmental risks which could affect health and socio economic activities if not treated properly there is no doubt that the rapid progress in improving water quality and management has been motivated by the latest developments in green chemistry over the past decade sources of water pollutants and the conventional methods used for the treatment of industrial wastewater treatment have flourished water quality and its adequate availability have been a matter of concern worldwide particularly in developing countries according to a world health organization who report more than 80 of diseases are due to the consumption of contaminated water heavy metals are highly toxic and are a potential threat to water soil and air their consumption in higher concentrations gives hazardous outcomes water quality is usually measured in terms of chemical physical biological and radiological standards the discharge of effluent by industries contains heavy metals hazardous chemicals and a high amount of organic and inorganic impurities that can contaminate the water environment and hence human health therefore it is our primary responsibility to maintain the water quality in our respective countries this book provides understanding occurrence identification toxic effects and control of water pollutants in an aquatic environment using green chemistry protocols it focuses on water remediation properties and processes including industry scale water remediation technologies this book covers recent literature on remediation technologies in preventing water contamination and its treatment chapters in this book discuss remediation of emerging pollutants using nanomaterials polymers advanced oxidation processes membranes and microalgae bioremediation etc it also includes photochemical electrochemical piezoacoustic and ultrasound techniques it is a unique reference guide for graduate students faculties researchers and industrialists working in the area of water science environmental science analytical chemistry and chemical engineering this outstanding new volume provides an in depth overview of remediation technologies in water science is written by leading experts in the field contains excellent well drafted chapters for beginners graduate students veteran engineers and other experts alike discusses current challenges and future perspectives in the field audience this book is an

invaluable guide to engineers students professors scientists and r d industrial specialists working in the fields of environmental science geoscience water science physics and chemistry

Bioremediation: Applications for Environmental Protection and Management 2017-12-11

this book examines bioremediation technologies as a tool for environmental protection and management it provides global perspectives on recent advances in the bioremediation of various environmental pollutants topics covered include comparative analysis of bio gas electrification from anaerobic digesters mathematical modeling in bioremediation the evaluation of next generation sequencing technologies for environmental monitoring in wastewater abatement and the impact of diverse wastewater remediation techniques such as the use of nanofibers microbes and genetically modified organisms bioelectrochemical treatment phytoremediation and biosorption strategies the book is targeted at scientists and researchers working in the field of bioremediation

Mathematical Reviews 2005

due to rapid urbanization and development water get polluted by the noxious waste released from industrial sewage and agricultural runoffs sustainable materials for sensing and remediation of noxious pollutants covers two most widely used aspects in the field of wastewater i e sensing and rapid remediation with a possible solution of successful technology commercialization chapters include information on low cost materials as sensing and remediating agents for the rapid removal of noxious impurities from wastewater it includes chapters on the sensing of noxious metals low cost adsorbents for the removal of noxious impurities i e inorganic metal ions and organic dyes additional chapters include future upcoming scopes of work and one chapter on the general introduction of the field the book content will be technical and focused for the audience like graduate students academicians researchers and industrial professionals sustainable materials for sensing and remediation of noxious pollutants is single reference source for environmental scientists and engineers interested in low cost sensing and remediation strategies assists readers in developing new strategies to address the issues related to sensing and remediation activities includes low cost materials for sensor and adsorbent development allowing professionals to make decisions based on economic considerations provides alternatives for the development of socioeconomically sustainable products for sensing and

remediation application

Sustainable Materials for Sensing and Remediation of Noxious

Pollutants *2022-08-05*

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

Bulletin of Pure & Applied Sciences *2000*

this book covers the recent literature concerning islamic banking and finance ibf focuses on the history of ibf since its inception and introduces the latest innovative concepts and practices in the field the authors cover important topics such as the role of ownership shari ah compliance and governance structures in raising debt capital using ibf practices including fatwa issues and the use of benchmarking practices the book also addresses topics like archival data the influence of leverage on ownership structure and sukuk structures as well as misconceptions threats challenges and opportunities in ibf finally the book deals with prominent issues such as business score carding takāful islamic insurance ibf implications for block chain based fintech and finance hub concepts in islamic microfinance models this edited volume is an important contribution to the ibf literature as it provides a much needed in depth look into industry practices through the perspective of corporate finance and governance with its interdisciplinary approach covering legal and financial issues along with a wide

variety of notable contributors this book will be a valuable reference guide to both teachers and students of islamic banking and economics

Chinese Journal of Acoustics 2001

bioremediation technologies are gaining immense credibility in the field of waste management because of their eco compatibility nature biomass can interact and confront with water and soil pollutants in both active live as well as passive dead way thereby offering numerous opportunities of exploring them for environmental clean up in 21st century wastes are no longer a waste but are recognized as a valuable resource employing novel and integrated strategies for the development of modern bioremediation processes is desperate need of the hour this edited book on applied bioremediation active and passive approaches contains mix of interesting chapters that will certainly add to the advancement of knowledge and will provide the required valuable resource and stimulus to the researchers worldwide

Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents 2017-10-20

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

The Growth of Islamic Finance and Banking 2019-08-23

metals in water global sources significance and treatment covers metal pollution in water where they come from their effects and remediation processes sections overview heavy metals pollution including their global health impacts and remediation measures geogenic and anthropogenic input of heavy metals in water are described along with global case studies step by step methods on remediation techniques different detection sensors and assessment practices of toxicity of heavy metals the book focuses on recent research surrounding heavy metals contamination in water resources and its impact across the globe chapters incorporate both theoretical and practical aspects and serve as baseline information for water resources studies this book is useful for postgraduate students teachers and

researchers working in areas of water resources and pollution hydrochemistry environmental remediation and toxicology who are looking to understand the affects metals have on water the environment and health and also those looking for methods for remediation presents global case studies of sites contaminated by metals effects on the environment and successful remediation techniques includes a whole section on remedial measures with clear step by step how to guides provides chapters covering detailed biogeochemical processes

Applied Bioremediation 2013-10-02

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

Green Adsorbents to Remove Metals, Dyes and Boron from Polluted Water 2020-08-31

Abstract: This study reports the synthesis and characterization of novel green adsorbents derived from agricultural waste for the removal of various pollutants from water. The adsorbents were evaluated for their adsorption capacity and efficiency towards metals, dyes, and boron. The results show that the adsorbents exhibit high adsorption capacity and efficiency, making them suitable for water treatment. The study also discusses the regeneration and reuse of the adsorbents, highlighting their potential as sustainable and cost-effective solutions for water pollution control.

Metals in Water 2022-11-19

development of advanced technologies is a critical component in overcoming the looming water crisis stressing emerging technologies and strategies that facilitate water sustainability for future generations

the second volume in the two volume set sustainable water management and technologies provides current and forthcoming technologies research development and applications to help ensure availability of water for all the book emphasizes emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products to protect the environment and human health save water and energy and minimize material use it also discusses such topics as groundwater transport protection and remediation industrial and wastewater treatment reuse and disposal membrane technology for water purification and desalination treatment and disposal in unconventional oil and gas development biodegradation and bioremediation for soil and water stresses emerging technologies and strategies that facilitate water sustainability covers a wide array of topics including drinking water wastewater and groundwater treatment protection and remediation discusses oil and gas drilling impacts and pollution prevention membrane technology for water desalination and purification biodegradation and bioremediation for soil and water details emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products

Nuclear Science Abstracts 1969

pollution due to various anthropogenic activities continues to increase in terms of water pollutants organic and inorganic pollutants are the most problematic although several measures have been proposed and implemented to prevent or reduce contamination their increased concentration in water bodies has created serious concerns over the years the problem has been aggravated by industrialization urbanization and the exploitation of natural resources the direct discharge of wastewater contaminants and their geographical mobilization have caused an increase in concentration in ground surface fluvial and residual waters extensive information about detection and disposal methods is needed in order to develop technological solutions for a variety of environments both urban and rural this book provides up to date information on wastewater contaminants aimed at researchers engineers and technologists working in this field conventional physicochemical techniques used to remove contaminants from wastewater include ion exchange precipitation degradation coagulation coating membrane processes and adsorption however these applications have technological and economic limitations and involve the release of large amounts of chemical reagents and by products that are themselves difficult to remove biosorption the use of organically generated material as an adsorbent is attracting new research and scholarship thermally treated calcined biomaterials may be treated to remove heavy metals from wastewater to ensure the elimination of

apart from conventional techniques this book explores new aspects of synthesizing metal phosphates and phosphonates

Journal of Radioanalytical Chemistry 1980

nano biosorbents for decontamination of water air and soil pollution explores the properties of nanobiosorbents and their applications in the removal of contaminants from the natural environment the use of nanobiosorbents for environmental protection is a combinational approach that incorporates nanotechnology with naturally occurring biopolymers that form an amalgamation of nano biopolymers used as sorbent materials in the removal of a variety of contaminants from wastewaters this is an important reference source for materials scientists bioscientists and environmental scientists who are looking to understand how nanobiosorbents are being used for a range of environmental applications highlights the environmental applications of chitosan based cellulose based and polymer based nanoscale biosorbents explains the advantages of using different types of nanobiosorbents for soil water and air purification applications assesses the challenges associated with manufacturing nanobiosorbents cheaply and on an industrial scale

Sustainable Water Technologies 2016-10-14

ongoing advancements in modern technology have led to significant developments in artificial intelligence with the numerous applications available it becomes imperative to conduct research and make further progress in this field artificial intelligence concepts methodologies tools and applications provides a comprehensive overview of the latest breakthroughs and recent progress in artificial intelligence highlighting relevant technologies uses and techniques across various industries and settings this publication is a pivotal reference source for researchers professionals academics upper level students and practitioners interested in emerging perspectives in the field of artificial intelligence

Biosorption for Wastewater Contaminants 2021-10-13

perovskite metal oxides synthesis properties and applications provides an overview on the topic including the synthesis of various types of perovskites their properties characterization and application the book reviews the applications of this category of materials for photovoltaics electronics biomedical fuel cell photocatalyst sensor energy storage and catalysis along with processing techniques of

perovskite metal oxides with a focus on low cost and high efficiency methods including various properties and probable applications in academia and industry other sections discuss strategies to improve the functionality of perovskite metal oxide materials including chemical methods and controlling the size shape and structure of the materials finally applications of perovskite metal oxides in energy conversion and storage sensing and electronics are covered provides an overview of perovskite metal oxides with an emphasis on synthesis fabrication and characterization methods discusses strategies to improve the functionality of perovskite metal oxide materials including chemical methods and controlling the size shape and structure of the materials reviews applications of perovskite metal oxides in energy conversion and storage sensing and electronics

Environmental Chemistry for a Sustainable World 2011-11-25

the book is a new edition of stereo vision book series of intech open access publisher and it presents diverse range of ideas and applications highlighting current research technology trends and advances in the field of stereo vision the topics covered in this book include fundamental theoretical aspects of robust stereo correspondence estimation novel and robust algorithms hardware implementation for fast execution and applications in wide range of disciplines particularly interesting approaches include neuromorphic engineering probabilistic analysis and anisotropic reaction diffusion addressing the problem of stereo correspondence and the applications in mobile robotics for autonomous terrain mapping and navigation stercentre for intelligent systems research cisr institute of technology research and innovation itri eo algorithm with anisotropic reaction diffusion systems utilizing biologically motivated reaction diffusion systems with anisotropic diffusion coefficients makes it an interesting addition to the book

Indian Science Abstracts 2002-09

surface engineering is considered an important aspect in the reduction of friction and wear this reference text discusses a wide range of surface engineering technologies along with applications in a comprehensive manner the book describes various methods in surface engineering technology with a thorough explanation of various aspects of each process that comes under this domain apart from an enhanced explanation of the process and its attributes this book also gives insight into the types of materials applications and optimization of surface engineering techniques it discusses important topics

including surface engineering of the functionality of graded materials materials characterization processing of biomaterials design surface modification technologies and process control smart manufacturing artificial intelligence and machine learning applications the book discusses computational and simulation analyses for better selection of process parameters covers optimizations of processes with state of the art technologies discusses applications of surface engineering in medical agricultural architecture engineering and allied sectors covers processing techniques of biomaterials in surface engineering the text is useful for senior undergraduate graduate students and academic researchers working in diverse areas such as industrial and production engineering mechanical engineering materials science and manufacturing science it covers a hybrid process for surface modification modeling techniques and issues in surface engineering

Thermodynamics of Newtonian and non-Newtonian nanofluids with recent advancements 2024-01-15

this book offers extensive and comprehensive knowledge to the researchers and academicians who are working on decontamination of radioactively contaminated areas remediation strategies for contaminated sites are provided readers who will find this book useful include professionals specializing in radioecology safe disposal of radioactive waste as well as decontamination remediation legacies and impact of radioactive waste material on the environment the chapters give a broad overview and reviews of a number of original publications on remediation strategies that were explored after the chernobyl and fukushima nuclear power plant accidents useful case studies are provided that explore the latest technological developments and future trends for affected area decontamination

Environmental Monitoring and Remediation Using

Microbiotechnology 2022-05-31

Quality of Service – IWQoS 2005 2005-06-21

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Metal Phosphates and Phosphonates 2023-03-29

**Nano-biosorbents for Decontamination of Water, Air, and Soil
Pollution 2022-02-01**

**Artificial Intelligence: Concepts, Methodologies, Tools, and
Applications 2016-12-12**

Perovskite Metal Oxides 2023-05-30

Current Advancements in Stereo Vision 2012-07-11

Engineered Materials Abstracts 1986-07

Journal of the Indian Chemical Society 1976

Journal of the Indian Chemical Society 1976-07

Assessing and addressing health inequities and disparities: The role of health informatics 2023-04-14

Russian Journal of Physical Chemistry 1974

Surface Engineering 2022-12-19

**Remediation Measures for Radioactively Contaminated Areas
2018-06-04**

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