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Novel Adsorbents and Their Environmental Applications

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American Institute of Chemical Engineers

Novel Adsorbents Their Environmental A

Sreedevi Upadhyayula,Amita Chaudhary

Novel Adsorbents Their Environmental A:

Handbook of Microplastic Pollution in the Environment Tonni Kurniawan, Abdelkader Anouzla, 2025-06-27 In this handbook one in a series of three leading global contributors analyze approaches to microplastics treatment address advanced techniques for mediating microplastic pollution and explore policy perspectives on the implications of microplastic pollution for human and ecosystem health Through this book readers will develop knowledge of leading and emerging technologies and techniques for monitoring and remediating microplastic pollution in the environment and understanding of the policy implications with regard to the human and ecological health risks associated with microplastic pollution To achieve this the book first explores current techniques for monitoring microplastics such as remote sensing techniques and their challenges and opportunities In the second section it then addresses policy perspectives on the management of microplastic pollution in aquatic environments and in agricultural soil In taking a global approach to both sections the contributors bring a wealth of knowledge and practical information to equip readers with a broad and up to date understanding of the geographical and ecological factors that can affect policy decisions This enables readers to enact appropriate policies on the management and remediation of microplastic pollution that take into account the context and requirements of each individual situation This in turn reduces the impact of microplastic pollution on biodiversity and ecosystems and minimizes the associated economic and human costs For a wider perspective readers are encouraged to refer to the other two titles in this series subtitled Microplastic Pollution in Aquatic Environments and Microplastic Pollution in the Soil In its exploration of the technologies and techniques for monitoring and treating microplastics and related policy perspectives this handbook has deep implications and practical ramifications for academics industry based researchers and policymakers to take a new direction to the reduction of microplastics in aquatic environments and agricultural soils around the world **Traditional** and Novel Adsorbents for Antibiotics Removal from Wastewater Seyedmehdi Sharifian, Mika Sillanpää, Neda Asasian-Kolur, 2023-12-12 Traditional and Novel Adsorbents for Antibiotics Removal from Wastewater describes in detail the importance of removing antibiotics from aqueous systems along with new information on their variation solubility toxicology and allowable concentration in groundwater The book covers adsorption as an applicable method highlighting its advantages and disadvantages It investigates various adsorbents ranging from traditional activated carbons modified forms of clays metal oxides polymer resins and more advanced materials such as graphene based MOF nano matrices and composite materials as potential sorbents for the adsorption of antibiotics from aqueous solutions In addition the book covers biological microorganisms that have been used to remove antibiotics from wastewater and presents biopolymers biowaste and living cells potentially and practically suitable for this purpose For all adsorbents the book explains preparation methods main properties modification techniques to increase antibiotic removal efficiency mechanisms in antibiotic removal advantages and limitations It also presents adsorption desorption in batch and continuous mode optimized operating parameters kinetic

and equilibrium adsorption and regeneration studies Provides production and modification methods of conventional and non conventional adsorbent materials for antibiotics adsorption from aqueous systems Considers the effects of antibiotics type and porous and chemical properties of adsorbents to improve the sorption capacity and ease of regeneration Features recent advances in the use of biowaste materials and biosorption processes for green removal of antibiotics from wastewater

Arsenic in Soil and Groundwater Environment Prosun Bhattacharya, Arun B. B. Mukherjee, Jochen Bundschuh, Ron Zevenhoven, Richard H. Loeppert, 2007-06-29 This volume presents the recent developments in the field of arsenic in soil and groundwater Arranged into nine sections the text emphasizes the global occurrences of arsenic in the environment particularly on its source pathways behavior and effects it has on soils plants water animals and humans It also covers the diverse issues of arsenic in the mining environment arsenic emanating from hydrothermal springs and the geochemical modeling of arsenic adsorption to oxide surfaces Finally the text includes different cost effective removal mechanisms of arsenic from drinking water using natural red earth solar oxidation and arsenic oxidation by ferrrate Written in simple English and few technical terms the book is designed to create interest within the countries with occurrences of arsenic in drinking water with an update the current status of knowledge on the dynamics of natural arsenic from the aguifers through groundwater to food chain and efficient techniques for arsenic removal serve as a standard text book for graduate postgraduate students and researchers in the field of Environmental Sciences and Hydrogeochemistry as well as researchers environmental scientists and chemists toxicologists medical scientists and even for general public seeking an in depth view of arsenic which had been classed as a carcinogen bring awareness among administrators policy makers and company executives on the problem and to improve the international cooperation Multifunctional Hydrogels José García-Torres, Carlos Alemán, Ram K. Gupta, 2024-04-19 Hydrogels are important polymer based materials with innate fascinating properties and applications they are three dimensional hydrophilic polymeric networks that can absorb large amounts of water or aqueous fluids and are biocompatible mechanically flexible and soft The incorporation of functionalities to develop smart and bioactive platforms has led to a myriad of applications This book offers a comprehensive overview of multifunctional hydrogels covering fundamentals properties and advanced applications in a progressive way While each chapter can be read stand alone together they clearly describe the fundamental concepts of design synthesis and fabrication as well as properties and performances of smart multifunctional hydrogels and their advanced applications in the biomedical environmental and robotics fields This book Introduces readers to different hydrogel materials and the polymer types used to fabricate them Discusses conducting polymer hydrogels nanocomposite hydrogels and self healing hydrogels Covers synthesis methodologies and fabrication techniques commonly used to confer certain structures and or architectures Shows how hydrogels can be modified to incorporate new functionalities able to respond to physical and or chemical changes Examines applications including bioelectronics sensors and biosensors tissue engineering drug delivery antipathogen

applications cancer theranostics environmental applications and soft robotics with chapters showcasing the main advances achieved up to date in every field Multifunctional Hydrogels From Basic Concepts to Advanced Applications serves as a valuable resource for academic and industry researchers from interdisciplinary fields including materials science chemistry chemical engineering bioengineering physics and pharmaceutical engineering Modified Nanomaterials for Environmental Applications Onoyivwe Monday Ama, Suprakas Sinha Ray, Peter Ogbemudia Osifo, 2021-11-16 This book focuses on the electrochemical and nanostructural properties of new photoanode electrolyte combinations used in the development of novel surface modified nanomaterials for environmental applications As water treatment is rapidly becoming a global challenge due to the increasing complexity and number of the various pollutants present the book explores fundamental issues relating to environmental applications of nanomaterials It addresses relevant topics ranging from electrochemical synthesis and characterization to applications of photoanodes in corrosion prevention and biosensors for wastewater treatment Featuring up to date experimental results on nanomaterials for detection of pharmaceuticals and heavy metals in wastewater this contributed volume is useful to electrochemical researchers materials scientists and chemical and civil engineers interested in advanced photoelectrochemical research for environmental applications

Designer Biochar Assisted Bioremediation of Industrial Effluents Riti Thapar Kapoor, Maulin P. Shah, 2022-12-12 This book provides useful information and applications of biochar produced from agricultural waste for removal of contaminants from industrial effluent and reutilization of waste sludge in the production of biofuel bioenergy It describes how designer or modified biochar or combined application biochar microbes can be applied successfully for reuse of wastewater and contaminated soil for ecorestoration environment protection and sustainable development It also deals with the unique features advantages and disadvantages of techniques for biochar production and analyses It underlines a road map in development of future strategy for pollution abatement and sustainable development Features Provides exhaustive coverage of biochar and its production and properties Highlights use of biochar in pollution control and environment protection Covers use of agricultural waste waste biomass for dye decolorization and degradation Explores synergistic approaches for contaminants removal for better insights into basic and advanced biotechnological applications Describes how biochar treatment can be successfully applied for reuse of wastewater and contaminated soil ecorestoration and environment protection This book is aimed at graduate students and researchers in chemical biochemical engineering biotechnology environmental sciences engineering and agriculture engineering Advanced Materials and Technologies for Wastewater Treatment Sreedevi Upadhyayula, Amita Chaudhary, 2021-09-27 Advanced Materials and Technologies for Wastewater Treatment discusses the methods and technologies of physical chemical biological and thermo catalytic treatment techniques It includes the treatment of waste generated by municipal agro industry and other industries including chemical biomedical pharmaceutical textile and other sectors FEATURES Covers implementation of advanced water and

wastewater treatment techniques with a focus on pollutant or pathogen removal Includes qualitative and quantitative analyses Focuses on physical chemical and biological treatment technologies Discusses the advancements of materials and technologies applicable to both potable water and wastewater from industrial and municipal sources Explores future challenges and viable solutions This book is aimed at chemical and environmental engineers and researchers seeking a thorough treatment of innovative water treatment materials and techniques for practical applications CO2 Adsorbents Ahad Ghaemi, Zohreh Khoshraftar, Fereshteh Pouresmaeil, 2025-09-10 CO2 Adsorbents comprehensively explores the materials and technologies used for adsorbing carbon dioxide It covers materials synthesis characterization adsorption mechanisms applications modeling and potential environmental and industrial impacts to help readers find the best adsorbent for their needs Through its coverage of advanced research and technological developments in the field such as novel adsorbent materials innovative synthesis methods and advancements in scalable production techniques the book aims to contribute to the understanding of CO2 adsorption processes materials and their practical applications in addressing the global challenge of climate change and CO2 emissions reduction Presents an overview of different adsorbent materials used for CO2 capture and the methods of synthesis modification and functionalization to enhance their CO2 adsorption performance Describes characterization techniques used to assess the structural morphological and surface properties of CO2 adsorbents Explores the fundamental mechanisms behind CO2 adsorption of various materials the interactions between CO2 molecules and the adsorbent surface and the kinetics and thermodynamics of CO2 adsorption processes Discusses through real world case studies the applications of CO2 adsorbents in various industries such as natural gas purification carbon capture and storage biogas upgrading and air purification and their potential in mitigating greenhouse gas emissions and addressing environmental concerns Analyzes the environmental impact and feasibility of using CO2 adsorbents in real world scenarios and the challenges and benefits of integrating adsorption technologies into existing industrial processes Provides insights into potential improvements challenges and directions for further research and development Through its practical relevance advanced insights and focus on sustainability and innovation this text serves as a valuable resource for researchers engineers and professionals working in the field of carbon capture and utilization including those in chemical environmental and related engineering disciplines Current Developments in Biotechnology and Bioengineering Sridhar Pilli, Puspendu Bhunia, Vinay Kumar Tyagi, R.D. Tyagi, Jonathan Wong, Ashok Pandey, 2022-08-27 Sustainable Treatment Technologies for Pre and Poly flourakyl Substances provides comprehensive details about per and poly fluroalkyls substances PFASs which are highly toxic and bio accumulative substances that do not biodegrade easily or cannot be neutralized under normal environmental conditions It discusses their occurrence in water wastewater and aquatic environment their bioaccumulation in plants environmental impacts and various remedial technologies for their treatment and management All the chapters provide state of art information about PFASs

describing their identification methods characterization and present critical analysis of the treatment methods such as physical chemical biological hybrid and advanced systems This book is a ready reference for the environmental engineers municipal engineers environmental practitioners policy makers and planners it is also a practical guide for industrial engineers government bodies and ecologists as well as for researchers Describes occurrence of PFASs in aquatic environment and on plant Provides details on identification methods and characterization of PFAS Describes physical chemical biological hybrid and advanced system treatments for PFASs Covers regulatory aspects on PFASs First dedicated Sorbents Materials for Controlling Environmental Pollution Avelino Nunez-Delgado, 2021-02-16 Sorbents Materials for Controlling Environmental Pollution Current State and Trends presents data on current use and future trends regarding sorbent materials employed against soil water and air pollution. The book is organized first by use and research for a variety of geographic areas It will then focus on different sorbent materials and their uses followed by various pollutants and their management Including updated and extensive data from an assortment of sources the book is organized to be very accessible including with an interactive table to help identify the results of appropriate sorbents for each environmental compartment The growing concern regarding soil water and air pollution all over the world has implications for climate change and sustainability making Sorbents Materials for Controlling Environmental Pollution Current State and Trends an important reference for environmental scientists to identify tools for moving forward in solving these problems Includes data and examples from various geographic locations worldwide Synthesizes data for a variety of sorbent material from different sources Presents data for various kinds of pollutants across environmental spheres including soil water and air Utilizes an interactive table for quicker access to data and results **Biochar and its Application in Bioremediation** Riti Thapar Kapoor, Helen Treichel, Maulin P. Shah, 2022-01-03 Biochar prepared from agricultural biomass has received considerable attention because of the huge availability of ago waste at zero cost flexibility high efficiency renewability faster contaminant removal rate ability to treat concentrated effluent and reduction of sludge production after the treatment This book on biochar is a comprehensive account of preparation of biochar from agricultural waste It provides a roadmap in development of future strategy for pollution abatement and sustainable waste management This book contains up to date information on biochar and its role in environment protection The book covers useful information and applications of biochar to research scholars academicians agronomists scientists and environmentalist working in the field of environment protection bioremediation waste management and climate change mitigation *Graphene-Based Materials as Adsorbents for* Wastewater Decontamination Suprakas Sinha Ray, Jonathan Tersur Orasugh, Lesego Tabea Temane, Sarah Constance Motshekga, 2024-10-07 This book aims to provide a fundamental grasp of graphene based materials GAMs and their adsorption process The effect of diverse process parameters including pH temperature agitation competing ions etc on the adsorption performance of GAMs as well as their recent and relevant applications in biomedical fields are discussed The

current challenges and future outlook have been addressed as an independent chapter and the recyclability of these adsorbent materials has also been covered Features Focuses on graphene based materials as adsorbents to remove contaminants from wastewater Includes detailed computational and statistical analyses and cost comparison points Compares the performance of graphene based materials as adsorbents in the context of various other reported adsorbents including other 2D materials such as WS2 and BN Provides fundamental comprehension of the graphene based materials adsorption process Discusses the recyclable nature of graphene based materials as well as approaches used This book has been aimed at graduate students and researchers in wastewater treatment environmental materials and chemical Emerging Sustainable Technologies for the Treatment of Industrial Effluent, 2025-04-30 Emerging Sustainable Technologies for the Treatment of Industrial Effluent is a comprehensive guide that explores the latest advancements in the field of industrial wastewater treatment This book provides an in depth analysis of innovative and sustainable technologies designed to address the complex challenges associated with the treatment and management of industrial effluents Innovative Treatment Technologies An in depth exploration of cutting edge technologies developed for the sustainable treatment of industrial effluents Environmental Impact Analysis of the environmental benefits of using sustainable technologies in industrial wastewater treatment Case Studies Real world examples and case studies demonstrating successful implementation of sustainable treatment methods **Encyclopedia of Renewable Energy**, Sustainability and the Environment, 2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy 2018 CFR Annual Diaital e-Book Edition, Title 40 Protection of Environment - Part 60 (Appendices) Office of The Federal Register, 2018-07-01 Title 40 Protection of Environment Part 60 Appendices Volume 9 Sustainable Materials for Sensing and Remediation of Noxious Pollutants Inderjeet Tyagi, Joanna Goscianska, Mohammad Hadi Dehghani, Rama Rao Karri, 2022-08-05 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 Biomass-Derived Materials for Environmental Applications Ioannis Anastopoulos, Eder Claudio Lima, Lucas Meili, Dimitrios A Giannakoudakis, 2022-05-20 Biomass Derived Materials for Environmental Applications presents state of the art coverage of bio based materials that can be applied to address the growing global concern of pollutant discharge in the environment The book examines the production characterization and application of bio based materials for remediation Organized clearly by type of material the book includes details on lignocellulosic materials natural clays carbonaceous materials composites and advanced materials from natural origins Readers will find an interdisciplinary and practical examination of these materials and their use in environmental remediation that will be valuable to environmental scientists materials scientists environmental chemists and environmental engineers alike Highlights a wide range of synthetic methodologies as well as physicochemical and engineered features of bio based materials for environmental purposes Provides in depth examination of bio based materials and their characteristics and advantages in environmental remediation Covers a range of specific materials including background information key results critical discussions conclusions and future perspectives <u>Functionalization of 2D Materials and Their Applications</u> Waleed A. El-Said, Nabil Ahmed Abdel Ghany, 2024-06-11 Functionalization of 2D Materials and Their Applications reviews the synthesis and characterization of nanopatterned 2D materials and how to modify different substrates with these materials Each chapter emphasizes fabrication including the fabrication of different morphologies of graphene and transition metal dichalcogenides TMDCs the fabrication of different composites and the surface modification of different nanopatterned graphene and TMDCs and the effects of these nanostructures on the different properties of the modified substrates such as the electrical thermal and optical properties and more The applications of graphene and TMDCs in the enhancement of Raman spectroscopy solar cells fuel cells supercapacitors biosensors chemical sensors water treatment water desalination

perovskite photodetectors energy storage devices environmental applications and cell based chips are also reviewed Reviews the latest advances in the fabrication of 2D materials including nanopatterned composite and porous 2D materials Explores the functionalization of 2D materials with particular attention given to the electrical thermal and optical properties that make these materials useful for a wide range of applications Discusses the applications of 2D materials in energy sensing environmental remediation and electronics

Proceedings of the 14th International Conference on Sustainable Built Environment Ranjith Dissanayake, Priyan Mendis, Sudhira De Silva, Shiromal Fernando, Chaminda Konthesingha, Upul Attanayake, Pradeep Gajanayake, 2024-08-27 This book highlights the latest knowledge and innovations in the fields of civil engineering and construction industry striving for a sustainable built environment This book consists of high quality innovative research findings selected from the proceedings of the 14th International Conference on Sustainable Built Environment ICSBE 2023 under the themes of Sustainable construction urban green infrastructure and planning rainwater harvesting and water conservation high performance concrete indoor environmental quality and indoor plants wind and hydro power energy waste and wastewater management for enhanced sustainability impacts of climate change carbon footprint global climate model and landscaping material flows and industrial ecology sustainable materials etc

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