

Bioremediation Of An Industrial Acid Mine Water By Metal

Battelle Memorial In

Bioremediation of Toxic Metal(loid)s Anju Malik, Mohd. Kashif Kidwai, Vinod Kumar Garg, 2022-11-30 The book, *Bioremediation of Toxic Metal(loid)s*, describes the state-of-the-art and potential of emerging technologies on bioremediation of toxic metal(loid)s. It has a compilation of the available comprehensive knowledge of the fundamentals and advancements in the field of bioremediation of toxic metal(loid)s. The mechanisms, applications, and current advancements of various bioremediation strategies used for metal(loid)s have been described in 21 chapters contributed by leading experts from different institutes, universities, and research laboratories from various countries across the globe including Argentina, Canada, Chile, Colombia, France, India, Japan, Republic of Korea, the United Kingdom, and the United States of America. This book offers a bird's eye view on various bioremediation technologies based on a variety of biological agents viz. plants, bacteria, algae, fungi etc., used for environmental clean-up of toxic metal(loid)s.

Recent Advancements in Bioremediation of Metal Contaminants Dey, Satarupa, Acharya, Biswaranjan, 2020-07-10 Pollution and ways to combat it have become topics of great concern for researchers. One of the most important dimensions of this global crisis is wastewater, which can often become contaminated with heavy metals such as lead, mercury, and arsenic, which are released from different industrial wastes, mines, and agricultural runoff. Bioremediation of such heavy metals has been extensively studied using different groups of bacteria, fungi, and algae, and has been considered as a safer, eco-friendly, and cost-effective option for mitigation of contaminated wasteland. The toxicity of water impacts all of society, and so it is of great importance that we understand the better, cleaner, and more efficient ways of treating water. *Recent Advancements in Bioremediation of Metal Contaminants* is a pivotal reference source that explores bioremediation of pollutants from industrial wastes and examines the role of diverse forms of microbes in bioremediation of wastewater. Covering a broad range of topics including microorganism tolerance, phytoremediation, and fungi, the role of different extremophiles and biofilms in bioremediation are also discussed. This book is ideally designed for environmentalists, engineers, policymakers, academicians, researchers, and students in the fields of microbiology, toxicology, environmental chemistry, and soil and water science.

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das,Hirak Ranjan Dash,2017-04-07 Around the World, metal pollution is a major problem. Conventional practices of toxic metal removal can be ineffective and/or expensive, delaying and exacerbating the crisis. Those communities dealing with contamination must be aware of the fundamentals advances of microbe-mediated metal removal practices because these methods can be easily used and require less remedial intervention. This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates.

Emerging Technology for Bioremediation of Metals Battelle Memorial In,1994-02-16 Bioremediation techniques for treating metals-contaminated soil and water are in an emerging state of development. Unlike organic compounds that can be broken down into harmless compounds such as CO₂ and water, metals and their salts generally inhibit biological activity. They must be converted into more complex states, be sorbed, or undergo valence state changes before biodegradation by activated sludge treatment or other complex reactions such as air stripping can occur. This book introduces various treatment technologies and options for the bioremediation of metals. The chapters, written by researchers and practitioners from North America and Europe, represent the most recent compilation of state-of-the-art techniques and methods for metals biotreatment. These topics and more are addressed:

Geobiotechnology I Axel Schippers,Franz Glombitza,Wolfgang Sand,2014-08-25 This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

Bioremediation of Acid Mine Drainage Paul Whitehead,2005

Groundwater Geochemistry Sughosh Madhav,Pardeep Singh,2021-06-14 This book contains both practical and theoretical aspects of groundwater resources relating to geochemistry. Focusing on recent research in groundwater resources, this book helps readers to understand the hydrogeochemistry of groundwater resources. Dealing primarily with the sources of ions in groundwater, the book describes geogenic and anthropogenic input of ions into water. Different organic, inorganic and emerging contamination and salinity problems are described, along with pollution-related issues affecting groundwater. New trends in groundwater contamination remediation measures are included, which will be particularly useful to researchers working in the field of water conservation. The book also contains diverse groundwater

modelling examples, enabling a better understanding of water-related issues and their management. Groundwater Geochemistry: Pollution and Remediation offers the reader: An understanding of the quantitative and qualitative challenges of groundwater resources An introduction to the environmental geochemistry of groundwater resources A survey of groundwater pollution-related issues Recent trends in groundwater conservation and remediation Mathematical and statistical modeling related to groundwater resources Students, lecturers and researchers working in the fields of hydrogeochemistry, water pollution and groundwater will find Groundwater Geochemistry an essential companion.

Remediation of Heavy Metals Rangabhashiyam Selvasembian, Binota Thokchom, Pardeep Singh, Ali H. Jawad, Willis Gwenzi, 2023-12-29 Remediation of Heavy Metals Meet the challenge of contaminated water with a range of sustainable tools The treatment of water which has been polluted by heavy metals is an increasingly significant environmental challenge in an industrialized global economy. The ongoing revolution in green technologies, however, has seen a range of sustainable methods emerge for treating water, soils, and other parts of the environment polluted by trace metals. By putting these methods into practice, environmental researchers and industrial professionals can improve water quality, and public health globally. Remediation of Heavy Metals offers a clear, accessible reference on these methods and their applications. It offers an overview of the major effects of heavy metal contamination and works through each of the methods or protocols available to remediate soil and minimize pollution at the source. Remediation of Heavy Metals readers will also find: Comparison of different approaches for heavy metal removal Detailed discussion of physical, chemical, and biological remediation methods Case studies demonstrating proper remediation Remediation of Heavy Metals provides key knowledge for environmental scientists, environmental toxicologists, and other researchers or industrial professionals working in heavy metal removal, as well as advanced graduate students in these areas. Rangabhashiyam Selvasembian, PhD, Associate Professor, Department of Environmental Science and Engineering, School of Engineering and Sciences, SRM University-AP, Amaravati, India Binota Thokchom, PhD, DST-Inspire faculty member at the Centre of Nanotechnology, Indian Institute of Technology, Guwahati, India. Pardeep Singh, PhD, Assistant Professor in the Department of Environmental Science, PGDAV College University of Delhi, New Delhi, India. Ali H. Jawad, PhD, Associate Professor in the Faculty of Applied Sciences, Universiti Teknologi MARA, Selangor, Malaysia. Willis Gwenzi, PhD, Leibniz Institute of Agricultural Engineering and Bio-economy e.V. (ATB), Potsdam, Germany, and Universität Kassel, Witzenhausen, Germany.

Biohydrometallurgical Processes Satarupa Dey, 2023-12-06 Extensive industrialization has led to an increased release of toxic metals into the soil and air. Industrial waste can include mine overburden, bauxite residue, and E waste, and these can serve as a source of valuable recoverable metals. There are relatively simple methods to recycle these wastes, but they require additional chemicals, are expensive, and generate secondary waste that causes environmental pollution. Biohydrometallurgical processing is a cost-effective and ecofriendly alternative where biological processes help conserve

dwindling ore resources and extract metals in a nonpolluting way. Microbes can be used in metal extraction from primary ores, waste minerals, and industrial and mining wastes. Biohydrometallurgical Processes: Metal Recovery and Remediation serves as a useful guide for microbiologists, biotechnologists, and various industrialists dealing with mining, metallurgy, chemical engineering, and environmental sciences. Features: Examines advances in biohydrometallurgy, biomineralization, and bioleaching techniques Discusses the importance of bacteria in biohydrometallurgical processes and microbial interventions for waste cleanup and upgradation of minerals Presents the latest techniques for biosynthesis related to different metals, along with recent developments in alternative procedures using extremophiles and leaching bacteria

Biotreatment of Industrial Effluents Mukesh Doble, Anil Kumar, 2005-04-07 With increasing government regulation of pollution, as well as willingness to levy punitive fines for transgressions, treatment of industrial waste is an important subject. This book is a single source of information on treatment procedures using biochemical means for all types of solid, liquid and gaseous contaminants generated by various chemical and allied industries. This book is intended for practicing environmental engineers and technologists from any industry as well as researchers and professors. The topics covered include the treatment of gaseous, liquid and solid waste from a large number of chemical and allied industries that include dye stuff, chemical, alcohol, food processing, pesticide, pharmaceuticals, paint etc. Information on aerobic and anaerobic reactors and modeling and simulation of waste treatment systems are also discussed.* Compares chemical and biochemical means of industrial waste treatment* Provides details of technology (i.e. reactors, operating conditions etc) with regard to the biochemistry aspects.* Can be used as a teaching aid for graduate courses and a reference material by practicing environmental scientists and engineers.* Researchers can extract synergy between treatment procedures and various effluents.

In-line Aeration and Treatment of Acid Mine Drainage Terry E. Ackman, Robert L. P. Kleinmann, 1984

Bio-Geotechnologies for Mine Site Rehabilitation M.N.V. Prasad, Paulo Jorge de Campos Favas, Subodh Kumar Maiti, 2018-01-02 Bio-Geotechnologies for Mine Site Rehabilitation deals with the biological, physical, chemical, and engineering approaches necessary for the reclamation of mine waste. As mining has negative effects on natural resources and deteriorates the quality of the surrounding environment, this book provides coverage across different types of mining industries, which are currently creating industrial deserts overloaded with technogenic waste. The book offers cost-effective strategies and approaches for contaminated sites, along with remediation and rehabilitation methods for contaminated soils and waste dumps. It is an essential resource for students and academics, but is also ideal for applied professionals in environmental geology, mineral geologists, biotechnologists and policymakers. - Deals with global and holistic approaches of abandoned mine land rehabilitation - Includes mine waste rehabilitation case studies from around the world - Covers integrated technologies, such as bioremediation of metalliferous soil - Provide strategies for sustainable ecosystems on mine

spoil dumps - Offers novel methods for the remediation of acid mine drainage

Microbial Assessment of a Bioremediation System Treating Acid Mine Drainage ,2007

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das,Hirak Ranjan Dash,2017-04-07 Around the World, metal pollution is a major problem. Conventional practices of toxic metal removal can be ineffective and/or expensive, delaying and exacerbating the crisis. Those communities dealing with contamination must be aware of the fundamentals advances of microbe-mediated metal removal practices because these methods can be easily used and require less remedial intervention. This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates.

Bioremediation of Metals and Inorganic Compounds Andrea Leeson,Bruce C. Alleman,1999 Unlike organic contaminants, which often can be broken down by biological processes into relatively harmless metabolites and by-products, metals are elemental and often have an inhibitory effect on biological activity. Despite these potential pitfalls, there has been progress recently in applying bioremediation technologies to metals and inorganics. This volume encompasses topics such as lead solubility reduction, chromium reduction, denitrification, volatilization of selenium in soils, metals recovery from acid mine drainage, and even the possibility of applying artificial neural network technology to aid in bioremediation.

Combined Application of Physico-Chemical & Microbiological Processes for Industrial Effluent Treatment Plant Maulin Shah,Aditi Banerjee,2020-03-30 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.

Mine Wastes and Water, Ecological Engineering and Metals Extraction Margarete Kalin-Seidenfaden, William N. Wheeler, 2022-02-03 The book reviews past and present mine waste management processes. It estimates global water consumption by major mining resources per annum. This consumption will lead land use resources (agriculture and water) to collide with mining interests expected in the near future. With the application of novel metal extraction processes and the adoption of ecological engineering as an approach to waste and water management, a reduction in water and land consumption can be achieved. Using these methodologies would make mining more sustainable. Together with ore and metal recycling, mining methods can be brought into the 21st century. The book describes natural weathering processes and the microbiology of extreme environments, also known as mine sites. The role of microbes in weathering and remediation is emphasized, along with case studies of the enhancement of various ecological processes which curtail weathering and transform pollutants, creating ore bodies of the future. This book has been written as an extension to a contribution to the Oxford Research Encyclopedia. It adds depth and many examples from 40 years of multidisciplinary work with experts from geology, hydrogeology, geomicrobiology and algal physiology and chemistry, items too extensive for the Encyclopedia.

Low Cost Wastewater Bioremediation Technology Jayanta Bhattacharya, Subhabrata Dev, Bidus Das, 2017-08-29 Low Cost Wastewater Bioremediation Technology: Innovative Treatment of Sulphate and Metal Rich Wastewater provides users with an authoritative guide on the technologies, processes and considerations needed for the treatment of Sulphate and Metal rich wastewaters. In this book, the authors not only explain the associated technologies, but also provide suitable alternatives to commercial treatment in terms of performance and cost effectiveness. As enormous quantities of sulphates and metal-rich contaminants are released into the environment each year, the technologies noted in the book provide the most eco-friendly, low cost and efficient alternatives available. - Covers the efficiency of treatment in terms of scale, efficiency and effectiveness of different bioremediation technologies for wastewater remediation - Discusses the economics of treatment and the development of suitable alternatives in terms of performance and cost effectiveness

Bioremediation of Industrial Waste for Environmental Safety Gaurav Saxena, Ram Naresh Bharagava, 2019-06-29 Achieving environmental sustainability with rapid industrialization is a major challenge of current scenario worldwide. As globally evident, industries are the key economic drivers, but are also the major polluters as untreated/partially treated effluents discharged from the industries is usually thrown into the aquatic resources and also dumped unattended. Industrial effluents are considered as the major sources of environmental pollution as these contains highly toxic and hazardous

pollutants, which reaches far off areas due to the medium of dispersion and thus, create ecological nuisance and health hazards in living beings. Hence, there is an urgent to find ecofriendly solution to deal with industrial waste, and develop sustainable methods for treating/detoxifying wastewater before its release into the environment. Being a low cost and eco-friendly clean technology, bioremediation can be a sustainable alternative to conventional remediation technologies for treatment and management of industrial wastes to protect public health and environment. Therefore, this book (Volume I) covers the bioremediation of different industrial wastes viz. tannery wastewater, pulp and paper mill wastewater, distillery wastewater, acid mine tailing wastes, and many more; which are lacking in a comprehensive manner in previous literature at one place. A separate chapter dedicated to major industries and type of waste produced by them is also included. This book will appeal to students, researchers, scientists, industry persons and professionals in field of microbiology, biotechnology, environmental sciences, eco-toxicology, environmental remediation and waste management and other relevant areas, who aspire to work on the biodegradation and bioremediation of industrial wastes for environmental safety.

Application of Nanotechnology in Mining Processes Elvis Fosso-Kankeu, Martin Mkandawire, Bhekhe B. Mamba, 2022-01-31

Application of Nanotechnology in Mining Processes Nanotechnology has revolutionized processes in many industries but its application in the mining industry has not been widely discussed. This unique book provides an overview of the successful implementation of nanotechnology in some of the key environmental and beneficiation mining processes. This book explores extensively the potential of nanotechnology to revolutionize the mining industry which has been relying for a very long on processes with limited efficiencies. The nine specialized chapters focus on applying nanoflotation to improve mineral processing, effective extraction of metals from leachates or pregnant solutions using nanoscale supramolecular hosts, and development of nano-adsorbents or nano-based strategies for the remediation or valorization of AMD. The application of nanotechnology in mining has so far received little attention from the industry and researchers and this groundbreaking book features critical issues so far under-reported in the literature: Application of nanotechnology in mineral processing for the enhancement of froth flotation Development of smart nanomaterials and application for the treatment of acid mine drainage Recovery of values from pregnant solutions using nanoadsorbents Valorization of AMD through formation of multipurpose nanoproducts. Audience Industrial interest will be from mining plant operators, environmental managers, water treatment plants managers, and operators. Researchers in nanotechnology, environmental science, mining, and metallurgy engineering will find the book valuable, as will government entities such as regulatory bodies officers and environmentalists.

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