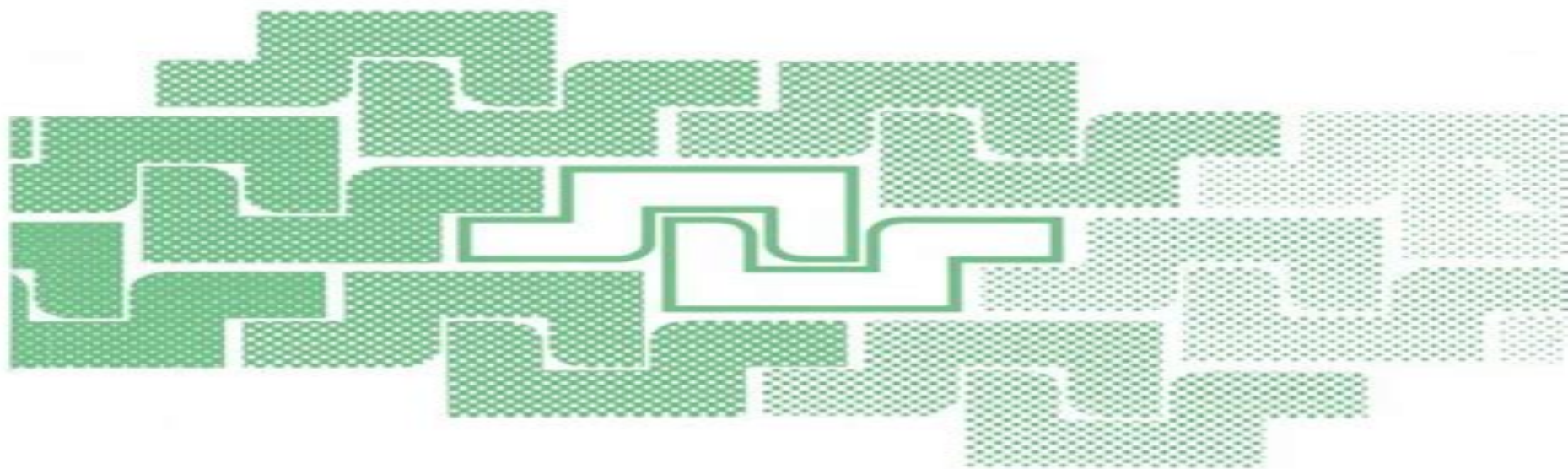




Radionuclides and Heavy Metals in Environment

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Marina V. Frontasyeva, Vladimir P. Perelygin
and Peter Vater

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Bibudhendra Sarkar



Radionuclides And Heavy Metals In Environment:

Radionuclides and Heavy Metals in Environment Marina V. Frontasyeva, Vladimir P. Perelygin, Peter Vater, 2001-09-30 Proceedings of the NATO Advanced Research Workshop on Monitoring and Man Made Radionuclides and Heavy Metals Waste in Environment Dubna Russia 3 6 October 2000 Radionuclides and Heavy Metals in Environment Marina Marinova, Vladimir P. Perelygin, Peter Vater, 2012-12-06 This volume entitled Radionuclides and Heavy Metals in Environment contains the Proceedings of the NATO Advanced Research Workshop ARW Monitoring of Natural and Man Made Radionuclides and Heavy Metal Waste in Environment that was held at the Joint Institute for Nuclear Research JINR Dubna Russia from 3 October to 6 October 2000 Originally it was planned to held the ARW in 1999 the year when NATO was celebrating its 50th anniversary Few days before opening it had to be postponed because of problems in issuing visa for all the colleagues who intended to participate The ARW was organized and conducted by the co directors Prof Vladimir P Perelygin Joint Institute for Nuclear Research Dubna Russia and Dr Peter Vater Philipps Universitat Marburg Germany The JINR was chosen as the host institute of ARW because of the lack of contact and real co operation between the former Soviet Union FSU countries specialists in ecology and their Western well experienced colleagues The selection of this location and supplementary funds provided by Russian Foundation on Basic Research Moscow Russia and the JINR Dubna Russia made it possible to attain a rather large number of participants and observers from FSU countries The JINR provided to all the participants of the workshop an effective car minibus transportation Moscow Dubna Moscow and a rather good accommodation in Dubna **Phyto and Microbial Remediation of Heavy Metals and Radionuclides in the**

Environment Rym Salah-Tazdaït, Djaber Tazdaït, 2022-02-24 This book examines the role that bioremediation can play in the detoxification of soil water and air to improve environmental and human health with a specific focus on heavy metals and radionuclides Environmental pollution whether by natural or human causes with industrial activities being a key player is a challenge facing all nations across the world While treatment has typically required the use of expensive technology one promising solution is the use of phytoremediation in which plants act by metabolizing or sequestering pollutants This eco friendly solution is a good alternative to the standard methods of soil and water treatments This book provides not only the basic definitions and classification of technologies used for contaminant remediation but also the most recent studies dealing with the selection of new promising microbial stains and plant varieties involved in the treatment of radioactive and heavy metal contaminants It provides a detailed description of the biochemical mechanisms and genes involved in the bioremediation of radionuclides and heavy metals offering a clear insight for academics and practitioners interested in in vitro and in situ biological treatment This book will be of great value to students and scholars interested in environmental pollution and environmental health from across a range of different disciplines including environmental microbiology and chemistry ecology and environmental science biological and environmental engineering and biotechnology *Control of*

Heavy Metals in the Environment Lawrence K. Wang, Yung-Tse Hung, Mu-Hao Sung Wang, Jiaping Paul Chen, 2025-03-21 Offering broad coverage of advanced principals and applications Control of Heavy Metals in the Environment series provides chemical and environmental engineers with the most complete resource available on the treatment of heavy metal contaminants with an emphasis on advanced and alternative approaches It investigates a variety of environmental pollution sources and waste characteristics that require a multitude of remediation methods It covers metal oxide nanoparticle pollution and nanotechnology applications for remediation The authors delve into costs and effluent standards and offer several illustrative case histories to illustrate the regional and global effects of key pollution control practices Features Provides technical information for industrial and hazardous waste treatment Explores the newest methods of clean production and waste minimization Covers topics related to environmental geochemistry Includes numerous figures tables examples and case histories

Environmental Contamination Jatin Srivastava, 2012-02-29 Nature minimizes the hazards while man maximizes them This is not an assumption but a basic idea of the findings of scientists from all over the world The last two centuries have witnessed the indiscriminate development and overexploitation of natural resources by man causing alterations and impairment of our own environment Environmental contamination is the result of the irrational use of resources at the wrong place and at the wrong time Environmental contamination has changed the lifestyle of people virtually all over the world and has reduced the extent of life on earth Today we are bound to compromises with such environmental conditions which was not anticipated for the sustenance of humanity and other life forms Let us find out the problem and its management within this book

Emerging Nanomaterials for Recovery of Toxic and Radioactive Metal Ions from Environmental Media Xiangke Wang, 2021-11-26 Emerging Nanomaterials for Recovery of Toxic and Radioactive Metal Ions from Environmental Media covers nanomaterials used in the environmental remediation of sites contaminated by toxic or radioactive heavy metals The book comprehensively covers the use of MOF based nanomaterials COF based nanomaterials MXene based nanomaterials nZVI based nanomaterials and carbon based nanomaterials in remediation techniques and details the main interaction mechanisms between toxic radioactive metal ions and the described novel nanomaterials through kinetic analysis thermodynamic analysis spectroscopic techniques and theoretical calculations It provides a thorough reference on the use of the described novel nanomaterials for academics researchers and advanced postgraduates in the environmental sciences and environmental chemistry Provides a comprehensive and systematic reference on various novel nanomaterials that are available for use in the treatment of heavy metal ions and radioactive wastes Presents the latest knowledge on the interaction of toxic and radioactive metal ions with novel nanomaterials including how to choose different materials for specific uses Covers the principles and functionalization of nanomaterials in environmental remediation enabling an understanding of methodologies and best choice in nanomaterials

Heavy Metals In The Environment Bibudhendra Sarkar, 2002-03-21 This text presents contemporary analytical techniques for the

determination of heavy metals in air particles water soil and biological samples It details experimental studies to reduce the occurrence of disease remediate contaminated sites and establish acceptable range of oral intakes AROI guidelines

Radionuclide Contamination and Remediation Through Plants Dharmendra Kumar Gupta, Clemens Walther, 2014-07-14
This book focuses on the mechanistic microscopic understanding of radionuclide uptake by plants in contaminated soils and potential use of phytoremediation The key features concern radionuclide toxicity in plants how the radioactive materials are absorbed by plants and how the plants cope with the toxic responses The respective chapters examine soil classification natural plant selection speciation of actinides kinetic modeling and case studies on cesium uptake after radiation accidents Radionuclide contaminants pose serious problems for biological systems due to their chemical toxicity and radiological effects The processes by which radionuclides can be incorporated into vegetation can either originate from activity interception by external plant surfaces either directly from the atmosphere or from resuspended material or through uptake of radionuclides via the root system Subsequent transfer of toxic elements to the human food chain is a concrete danger Therefore the molecular mechanisms and genetic basis of transport into and within plants needs to be understood for two reasons The effectiveness of radionuclide uptake into crop plants so called transfer coefficient is a prerequisite for the calculation of dose due to the food path On the other hand efficient radionuclide transfer into plants can be made use of for decontamination of land so called phytoremediation the direct use of living green plants for in situ removal of pollutants from the environment or to reduce their concentrations to harmless levels Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (3rd Edition) Mohamed Ksibi, Abdelazim Negm, Olfa Hentati, Achraf Ghorbal, Arturo Sousa, Jesus Rodrigo-Comino, Sandeep Panda, José Lopes Velho, Ahmed M. El-Kenawy, Nicola Perilli, 2024-05-03
This edited book includes over one hundred and eighty short papers that were presented during the third edition of EMCEI which was held in Sousse Tunisia in June 2021 Nowadays experts as well as most of the general public know that the Mediterranean and surrounding regions are facing environmental degradation that is accelerating at an unprecedented rate The main causes are the natural and human induced climate change increasing pollution urban growth and the overexploitation and unsustainable use of resources due to rapid population growth The effects are seen in several indicators such as the warming more frequent extreme events severe droughts water shortages contraction of natural resources changes in land use and landscape deterioration decreasing agricultural yields biodiversity loss deterioration of the ecosystems corrosion of the natural coastal environment sea level rise and ocean acidification In addition to these more recent issues the Mediterranean and surrounding region naturally experience a number of hazards such as floods droughts desertification fires catastrophic forest diebacks earthquakes and volcanic eruptions By presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions this book appeals to anyone working in the subject area and especially students interested in learning more about new developments in environmental research

initiatives in light of the worsening environmental degradation of the Mediterranean and surrounding areas making environmental and resource protection an increasingly important issue that impedes sustainable development and social well being The book addresses emerging environmental issues along with new challenges by focusing on innovative approaches that contribute to achieving a sustainable environment in and around the Mediterranean Sea and by highlighting to decision makers from relevant sectors the environmental considerations that should be integrated into their own activities

Radionuclides in the Environment Clemens Walther, Dharmendra K. Gupta, 2015-10-30 This book provides extensive and comprehensive information to researchers and academicians who are interested in radionuclide contamination its sources and environmental impact It is also useful for graduate and undergraduate students specializing in radioactive waste disposal and its impact on natural as well as manmade environments A number of sites are affected by large legacies of waste from the mining and processing of radioactive minerals Over recent decades several hundred radioactive isotopes radioisotopes of natural elements have been produced artificially including ^{90}Sr ^{137}Cs and ^{131}I Several other anthropogenic radioactive elements have also been produced in large quantities for example technetium neptunium plutonium and americium although plutonium does occur naturally in trace amounts in uranium ores The deposition of radionuclides on vegetation and soil as well as the uptake from polluted aquifers root uptake or irrigation are the initial point for their transfer into the terrestrial environment and into food chains There are two principal deposition processes for the removal of pollutants from the atmosphere dry deposition is the direct transfer through absorption of gases and particles by natural surfaces such as vegetation whereas showery or wet deposition is the transport of a substance from the atmosphere to the ground by snow hail or rain Once deposited on any vegetation radionuclides are removed from plants by the atmosphere and rain either through percolation or by cuticular scratch The increase in biomass during plant growth does not cause a loss of activity but it does lead to a decrease in activity concentration due to effective dilution There is also systemic transport translocation of radionuclides within the plant subsequent to foliar uptake leading the transfer of chemical components to other parts of the plant that have not been contaminated directly

The Enigmatic Realm of **Radionuclides And Heavy Metals In Environment**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Radionuclides And Heavy Metals In Environment** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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