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Heavy Metal Years Heavy Metal Sequestration Using Functional Heavy Metal Sequestration Using Functional Nanoporous Materials US EPA Workshop on Nanotechnology for Site Remediation glen.fryxell@pnl.gov

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October 20-21, 2005 Glen E. Fryxell,
Shas V. Mattigod, Kent Parker,
Richard Skaggs

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Highly efficient heavy metal adsorption was achieved using carbon microspheres (CMs) functionalized with boronic acid (B-CMs). The adsorbent B-CMs were prepared by

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hydrothermal carbonization of xylose and subsequent functionalization.

Heavy metal sequestration with a boronic acid ...

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Materials US EPA Workshop on
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glen.fryxell@pnl.gov October 20-21,
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Heavy Metal Sequestration Using Functional Nanoporous

This study investigated the removal of

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heavy metals by biological sulfate reduction using CO as the sole carbon and energy source. The effect of different heavy metals, viz. Cu, Zn, Cd and Pb at initial concentrations in the range 5–100 mg/L on their respective removal was studied. Maximum removal efficiency was obtained with

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Cu as sulfate reduction was mostly unaffected in the presence of this metal; more than 60% sulfate reduction could be achieved even at a high metal concentration of ...

Heavy metal sequestration by sulfate reduction using ...

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These SAMMS Nanoporous materials are highly efficient sorbents whose interfacial chemistry can be fine-tuned to selectively sequester a specific target species, such as heavy metals, tetrahedral oxometalate anions, and radionuclides.

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Actinide Sequestration Using Self-Assembled Monolayers on ...

The removal of heavy metal ions from wastewater can be accomplished by the introduction of strong chelating functional groups on a polymer [8,15]. One of the biggest advantages of water-soluble polymers is that the

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Functional Nanoporous Complexation takes place in the homogenous phase under low contact time as compared to insoluble chelating resins (the reactions are in the heterogeneous phase and needs long contact time) [13 , 16].

Design and synthesis of water-soluble

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In vitro metal adsorption experiments revealed that these functional groups provided potential sites for the adsorption of heavy metals.

Additionally, mangrove ecosystems are often situated on the fringe of deltaic floodplains, which provides a

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potential large depositional store for GRSP and associated metals (Adame et al., 2010 ; Chern et al., 2007 ; Wang et al., 2018b).

Interactions of soil metals with glomalin-related soil ...

Functional group ligand complexes

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Functional Nanoparticles and ion exchange were predominant binding mechanisms for Cu and Cd with GRSPs. As a novel indicator of terrestrial material, GRSPs sequestered heavy metals and formed stable complexes in waterbodies, enhancing heavy-metal stabilization and promoting water quality.

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Terrestrial-derived soil protein in coastal water: metal ... concentration of heavy metal under different land use affects the transformation of soil organic matter. This will have implication on carbon storage/Sequestration. A study of

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Functional Nanoporous heavy metals in surface sediments of the Mersey, monitored over a period of 25 years (Harland, Taylor, & Wither, 2000), has shown that heavy metal concentrations are ...

Effects of heavy metal contamination in saltmarsh and reed ...

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Functional Groups

The transformations of SOM will bring about changes in functional group chemistry during decomposition/mineralization. The effects of heavy metal contamination level under different land use type on carbon sequestration were investigated. Results indicated that,

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the concentration of heavy metal under different land use affects the transformation of soil organic matter.

Effects of heavy metal contamination in saltmarsh and reed ...

The results revealed that the copper (II) is considerably adsorbed on the

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Functional Nanoporous prepared adsorbents and it could be an economical method for heavy metal sequestration from wastewaters. The process...

Sequestration of copper (II) from simulated wastewater ...

Lysosomes are multi-functional

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Organelles that aid in the disassembly of large organic molecules and store a variety of xenobiotics. Lysosomes, and vacuolar components of the endomembrane system, play apparently ubiquitous sequestration and detoxification roles for heavy metals in cells of many organisms.

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Heavy Metal Transport and Detoxification by Crustacean ...

Dissolve 56 g of potassium hydroxide (KOH) in 100 mL of deionized water under vigorous stirring. Add 3 g of titanium dioxide (TiO₂) powder into the as-dissolved KOH solution.

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Transfer the above solution into a Teflon-lined reactor and keep it at 200 °C for 24 h.

A Dual-Functional Electroactive Filter Towards ...

The maximum adsorption capacities of the mesoporous microspheres of

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Varying compositions correlate with the amount of surface hydroxyl groups on the materials. A maximum adsorption capacity of 29.46 mg/g (0.57 mmol/g) is achieved on the microspheres containing 30% Zr due to abundant active hydroxyl groups for heavy metal ion adsorption.

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The performance of crops in the soil largely depends on the physico-chemical components of the soil, which regulate the availability of nutrients as well as abiotic and biotic

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Microbes are the integral component of any agricultural soil, playing a vital role in regulating the bioavailability of nutrients, the tolerance to abiotic and biotic stresses and management of seed-borne and soil-borne plant diseases. The second volume of the book Microbial

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Inoculants in Sustainable Agricultural Productivity - Functional Applications reflects the pioneering efforts of eminent researchers to explore the functions of promising microbes as microbial inoculants, establish inoculants for field applications and promote corresponding knowledge

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Functional Nanoporous Among farming communities. In this volume, readers will find dedicated chapters on the role of microbes as biofertilizers and biopesticides in the improvement of crop plants, managing soil fertility and plant health, enhancing the efficiency of soil nutrients and establishing systemic phytopathogen

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Functional Nanoporous Resistance in plants, as well as managing various kinds of plant stress by applying microbial inoculants. The impact of microbial inoculants on the remediation of heavy metals, soil carbon sequestration, function of rhizosphere microbial communities and remediation of heavy metal

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Contaminated agricultural soils is also covered in great detail. In this Volume, a major focus is on the approaches, strategies, advances and technologies used to develop suitable and sustainable delivery systems for microbial inoculants in field applications. Subsequent chapters

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investigate the role of nanomaterials in agriculture and the nanoparticle-mediated biocontrol of nematodes. An overview of the challenges facing the regulation and registration of biopesticides in India rounds out the coverage.

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This book is the outcome of contributions by many experts in the field from different disciplines, various backgrounds, and diverse expertise. This book provides information on biomass volume calculation methods and biomass valorization for energy production. The chapters presented in

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this book include original research and review articles. I hope the research presented in this book will help to advance the use of biomass for bioenergy production and valorization. The key features of the book are:
Providing information on biomass volume estimation using direct,

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Nondestructive and remote sensing methods Biomass valorization for energy using thermochemical (gasification and pyrolysis) and biochemical (fermentation) conversion processes.

Major portion of the planet earth is

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covered by seas and oceans representing 96.5% of the planet's water, playing a detrimental role in sustaining the plant including crop diversity and productivity for human consumption. Water resources contain both soluble and transition metals, which are easily absorbed by plants

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through roots as a first point of contact and subsequently play important physiological and biological functions in plants. Transition metals such as copper (Cu), iron (Fe), manganese (Mn) and zinc (Zn) contribute to the plant productivity by playing key functional roles in the photosynthesis.

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In addition, to their major role in regulating the plant productivity, they also play an important role by acting as homeostatic regulators in uniparentally inherited chloroplasts and maintains the flow of the electron transfer. It is worthwhile to mention that they play a critical role as

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transporters, which acts as electron balancing units for managing the electrostatic potential across the membranes. In contrast, some metals such as Cd, As play a significant role in inducing the stress mechanism and influencing either directly or in-directly Haber-Weiss reactions either through

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the production of the reactive oxygen species (ROS) or through the membrane damage thus leading to leakage of membrane transporters. However, besides playing a detrimental role as transporters in plant system, excessive accumulation of these metals due to the increasing

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Contamination in the marginal soil and water are posing important threats to the plant system. Realizing the toxic effects of the metals, several physiological evidences have been laid for the credence of the metal toxicity and their concurrent effect on plant productivity. Increasing effects of

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the metals as toxicants can have three adverse effects on the populations: population can move, persist via local adaptation or phenotypic plasticity, or die. Next generation sequencing studies have revolutionized our abilities to detect the changes in expression profiles across an array of

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Genes, which can in-turn help to develop early markers of metal induced stress. *Plant Metallomics and Functional Omics: A System-Wide Perspective* focuses on the applications of the system wide understanding of the biological and functional interplay occurring at the

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fracture of the metalloids induced stress and toxicity. The main goal of this book is to familiarize the readers with the most up-to-date information on metal-induced physiological changes in plant species.

Plant Metal Interaction: Emerging

Page 54/86

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Remediation Techniques covers different heavy metals and their effect on soils and plants, along with the remediation techniques currently available. As cultivable land is declining day-by-day as a result of increased metals in our soil and water, there is an urgent need to remediate

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these effects. This multi-contributed book is divided into four sections covering the whole of plant metal interactions, including heavy metals, approaches to alleviate heavy metal stress, microbial approaches to remove heavy metals, and phytoremediation. Provides an

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Overview of the effect of different heavy metals on growth, biochemical reactions, and physiology of various plants Serves as a reference guide for available techniques, challenges, and possible solutions in heavy metal remediation Covers sustainable technologies in uptake and removal of

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Creative thinking and collaborative scientific research have advanced our understanding of autism, and we are now beginning to synthesize the data into evidence and theories. Autism: Current Theories and Evidence

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Functional Neurophysiology presents current theories about autism and the evidence that supports them. The goal is to show how the scientific method is revealing the biological bases of this spectrum of disorders, thereby leading the way to their treatment and prevention using evidence-based medicine. This book

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has 20 chapters divided into 6 sections: Molecular and Clinical Genetics; Neurotransmitters and Cell Signaling; Endocrinology, Growth and Metabolism; Immunology, Maternal-Fetal Effects and Neuroinflammation; Neuroanatomy, Imaging and Neural networks; and Environmental

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Mechanisms and Models. The

subjects cover a wide range of current scientific work in the field of autism, with strong and growing evidence to support them, and demonstrate both the breadth and depth of current autism research. The reader is encouraged to consider how theories

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Functional Nanoporous and the scientific method, in the hands of these and other dedicated researchers, are leading to greater knowledge and continued progress in autism research.

WINNER 2009 CHOICE AWARD
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Nanotechnology is no longer a subdiscipline of chemistry, engineering, or any other field. It represents the convergence of many fields, and therefore demands a new paradigm for teaching. This textbook is for the next generation of nanotechnologists. It surveys the

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field's broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and

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applications in various industrial sectors. This color text is an ideal companion to Introduction to Nanoscience by the same group of esteemed authors. Both titles are also available as the single volume Introduction to Nanoscience and Nanotechnology Qualifying instructors

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Who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.

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Heavy Metal Toxicity in Plants: Physiological and Molecular Perspectives highlights the various metal induced impacts on plants and adaptation strategies employed to avoid these stressful conditions. The volume comprise the chapters from

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the different areas ranging from latest biotechnological to omics approaches. This comprehensive volume emphasizes on the recent updates about the current research on the heavy metal stress in plant biology covering different aspects related to challenges and opportunities in the

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Functional Nanoporous concerned field. This book is an attempt to bring together researchers who have been engaged in the area of stress signaling, crosstalk and mechanisms of heavy metal stress and share their research findings. Various chapters deal with the topics ranging from sensing and signalling in

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plants to translational research. The book will provide a direction towards implementation of programs and practices that will enable sustainable production of crops, resilient to environmental heavy metal pollution. Features: The book covers the heavy metal impact on plants in detail.

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Functional Nanoporous Chapters cover an array of topics and issues related to heavy metal pollution and its management strategies by plants Recent research results and some pointers to future advancements in current topic.

This volume explores recent research

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Functional Nanoporous Trends and achievements in environmental pollution remediation (e.g. water, air, soil), and compiles critical and constructive papers and reviews with a focus on advances in bioremediation and green technology solutions for waste minimization, waste management and pollution

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control. The book is timely, as the need for researchers and engineers to develop sustainable and green eco-friendly remediation technologies is increasing with a growing global population, stressed agricultural systems, and an environment impacted by climate change. A key

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focus of the book is on the efficient use of agricultural waste residues as viable substrates for creating materials for environmental clean-up, and the possible conversion of these pollutants to sustainable bioresources. The volume will be of interest to sustainability researchers,

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Environmental Nanoporous
Environmental engineers, industry managers and agricultural scientists.

Over the last three decades a lot of research on the role of metals in biochemistry and medicine has been done. As a result many structures of biomolecules with metals have been

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Characterized and medicinal chemistry studied the effects of metal containing drugs. This new book (from the EIBC Book Series) covers recent advances made by top researchers in the field of metals in cells [the “metallome”] and include: regulated metal ion uptake and trafficking, sensing of metals

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Functional Nanopores, and identification of the vast cellular factors designed to orchestrate assembly of metal cofactor sites while minimizing toxic side reactions of metals. In addition, it features aspects of metals in disease, including the role of metals in neuro-degeneration, liver disease,

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Functional Nanoparticles and inflammation, as a way to highlight the detrimental effects of mishandling of metal trafficking and response to "foreign" metals. With the breadth of our recently acquired understanding of metals in cells, a book that features key aspects of cellular handling of inorganic elements is both timely and

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important. At this point in our understanding, it is worthwhile to step back and take an expansive view of how far our understanding has come, while also highlighting how much we still do not know. The content from this book will publish online, as part of EIBC in December 2013, find out more

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From the Encyclopedia of Inorganic and Bioinorganic Chemistry, the essential online resource for researchers and students working in all areas of inorganic and bioinorganic chemistry.

A guide to the chemical agents that

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Functional Nanoporous protect plants from various environmental stressors Protective Chemical Agents in the Amelioration of Plant Abiotic Stress offers a guide to the diverse chemical agents that have the potential to mitigate different forms of abiotic stresses in plants. Edited by two experts on the topic, the book

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Functional Nanoporous explores the role of novel chemicals and shows how using such unique chemical agents can tackle the oxidative damages caused by environmental stresses. Exogenous application of different chemical agents or chemical priming of seeds presents opportunities for crop stress

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management. The use of chemical compounds as protective agents has been found to improve plant tolerance significantly in various crop and non-crop species against a range of different individually applied abiotic stresses by regulating the endogenous levels of the protective agents within

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plants. This important book: Explores the efficacy of various chemical agents to eliminate abiotic stress Offers a groundbreaking look at the topic and reviews the most recent advances in the field Includes information from noted authorities on the subject Promises to benefit agriculture under

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stress conditions at the ground level
Written for researchers, academicians,
and scientists, Protective Chemical
Agents in the Amelioration of Plant
Abiotic Stress details the wide range of
protective chemical agents, their
applications, and their intricate
biochemical and molecular mechanism

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of action within the plant systems
during adverse situations.

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