

# Heavy Metal Sequestration Using Functional Nanoporous

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Nanoporous Materials US EPA Workshop on

Nanotechnology for Site Remediation

glen.fryxell@pnl.gov October 20-21, 2005 Glen

E. Fryxell, Shas V. Mattigod, Kent Parker,

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## Nanoporous

Highly efficient heavy metal adsorption was achieved using carbon microspheres (CMs) functionalized with boronic acid (B-CMs). The adsorbent B-CMs were prepared by hydrothermal carbonization of xylose and subsequent functionalization.

Heavy metal sequestration with a boronic acid  
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Heavy Metal Sequestration Using Functional  
Nanoporous Materials US EPA Workshop on  
Nanotechnology for Site Remediation  
glen.fryxell@pnl.gov October 20-21, 2005 Glen  
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## Heavy Metal Sequestration Using Functional Nanoporous

This study investigated the removal of 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 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 ...

These SAMMS 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.

## Actinide Sequestration Using Self-Assembled

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## 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 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 chelating polymeric ...

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 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 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 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 ...

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

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

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Lysosomes are multi-functional organelles that aid in the disassembly of large organic molecules and store a variety of xenobiotics. Lysosomes, and vacuolar components of the endo-membrane system, play apparently ubiquitous sequestration and detoxification roles for heavy metals in cells of many organisms.

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 (TiO<sub>2</sub>) powder into the as-dissolved KOH solution. 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 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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