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Smarts composites for heavy metal removal from waste water

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The high consumption of metal contaminated water and food have been classified as causative agent of lungs, bladder and kidney cancers, muscular weakness, high blood pressure, skin liaisons, reproductive disorders, damage to blood vessels, appetite loss, vomiting, nausea, skin dermatitis etc. even when present at low dosages. Smart composites are the constituents of the engineered materials with desired size, which ultimately results in extraordinary physical and chemical properties, such as the unique optical, electrical, thermal and adsorption characteristics, etc., due to their ultra-small size. Large specific surface areas of smart composites can improve the detection sensitivity and miniaturize the devices in analytical procedures. In addition, these smart composites of various compositions, morphologies can provide powerful tools for the environmental devices and techniques. The present lecture will be focused on the heavy metal removal using smart composites from wastewater.

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