



Syntheses, Characterization, Applications of S-bearing Chelating resin

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Overview on Literature, methods of syntheses and Applications of Various S-containing Chelating resins | Removal of heavy metals from wastewater and drinking water is of great importance due to their high toxicity. Most of the heavy metal salts are soluble in water and cannot be separated by ordinary physical separation methods. Numerous methods have been widely applied for removal, extraction and separation of heavy and precious metals from wastewater as well as other environmental samples. For the separation of various elements, ion-exchange has been used more extensively than any other technique. Furthermore, the removal of metal ions with the help of chelating resins using batch equilibration method has gained rapid acceptance because of its wide variety of sorbent phases, high degree of selectivity, high loading capacity and enhanced hydrophilicity. The main objective is the preparation of insoluble functionalized polymers which can provide more flexible working conditions together with good stability and high capacity for the adsorption of certain metal ions. Based on the hard and soft acids and bases theory (HSAB), the ion-exchangers with functional groups containing S donor atoms interact strongly with the soft acids like precious metal ions....



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