

研究简报

## 铜(II)离子印迹聚合物的制备及性能

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**摘要** 选择油酸为功能单体, 二乙烯基苯为交联剂, 应用乳液聚合方法制备了Cu(II)离子印迹聚合物, 并对其性能和吸附机理进行了研究.

**关键词** [铜离子](#) [印迹聚合物](#) [制备](#) [性能](#)

**分类号** [0657](#) [0631](#)

## Preparation and Characterization of Cu(II)\|Molecularly Imprinted Polymer

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**Abstract** Cu(II)-Molecularly imprinted polymer was prepared by the emulsion polymerization approach by using oleic acid and divinylbenzene as the functional monomer and the cross-linker separately. The results show that the imprinted polymer adsorbed Cu(II) in water with a high velocity and favorable selectivity through copper ion entering into its cavity and replacing hydrogen of hydroxyl group. Autosorb instrument was used to examine the properties and structure of the imprinted polymer. Many holes in surface of the Cu(II)-molecule imprinted polymer which possess high availability are filled because of adsorption.

**Key words** [Cu\(II\) ion](#) [Imprinted polymer](#) [Preparation](#) [Property](#)

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