

Synthesis and Application of Sulfonic Acid Functionalized Mesoporous SBA-15 as an Efficient Support for Immobilization of Chiral Co(III) salens

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The new application of sulfonic acid ($-SO_3H$) functionalized SBA-15 was demonstrated as an effective method for the immobilization of chiral salen complexes on the surfaces. The cationic cobalt (III)salen complexes were immobilized by electrostatic interactions with alkyl and aromatic sulfonic groups via HO_3S -functionalized linker on the inorganic support. The cobalt(III)- SO_3 salen complexes attached on the mesoporous supports via sulfonic acid linker have exhibited the excellent activity in the asymmetric ring opening reaction of racemic epoxide by water and phenol nucleophiles.