

عنوان مقاله:

Imidazolium based polymeric ionic liquid functionalized silica coated magnetic iron oxide: synthesis and characterization

محل انتشار:

چهارمین کنفرانس بین المللی نوآوری های اخیر در شیمی و مهندسی شیمی (سال: 1396)

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خلاصه مقاله:

We report here on the preparation of Fe₃O₄ magnetic nanoparticle modified with polymeric ionic liquid. They were obtained through the polymerization of a 1-vinyl-3-octylimidazolium bromide-based ionic liquid with vinyl-modified Fe₃O₄@SiO₂. The presented Fe₃O₄@SiO₂@PIL magnetic nanoparticle was characterized by ¹H NMR, FT-IR spectrometer, TGA and TEM.

کلمات کلیدی:

Magnetic nanoparticles, Polymeric ionic liquids, ¹H NMR, FT-IR, TGA, TEM

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