

عنوان مقاله:

ZrFe₂O₄@SiO₂-Glycine-Pd: green, magnetic, and versatile catalyst for the C-C coupling reaction

محل انتشار:

بیست و دومین کنگره بین المللی شیمی انجمن شیمی ایران (سال: 1403)

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خلاصه مقاله:

In this research project, silica-modified ZrFe₂O₄ magnetic nanoparticles were prepared in a simple, short, and straightforward way. Subsequently, an efficient catalyst through immobilization of ascorbic acid on the surface of silica-coated ZrFe₂O₄ nanoparticles has been produced. The physical and chemical properties of ZrFe₂O₄@SiO₂-Glycine-Pd were considered by XRD, FT-IR, TGA, SEM, EDS, and vibrating sample magnetometer (VSM) analyses. The catalytic activity of described magnetic nanocatalyst was checked out for the synthesis of C-C coupling reaction. The described catalyst was recovered and reused for five continuous cycles without considerable change in its catalytic activity.

کلمات کلیدی:

Zirconium ferrite (ZrFe₂O₄); Nanoparticles; C-C coupling reactio

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