

عنوان مقاله:

Development and Applications of Copper Complex Supported on Fe³O₄: as Heterogeneous and Nanocatalytic Systems

محل انتشار:

اولین کنفرانس بین المللی یافته های پژوهشی شیمی و مهندسی شیمی (سال: 1400)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

A recyclable and magnetic nanoparticles catalyst (Cu(II)- Histidine@ Fe³O₄) was synthesized via grafting Histidine into magnetically functionalized Fe³O₄ in ethanol. The properties of Cu(II)- Histidine@ Fe³O₄ were fully characterized by powder X-ray diffraction, electron microscopy, TGA/DTA analysis, Fourier-transform infrared spectroscopy and a magnetic property measurement system. Cu(II)- Histidine@ Fe³O₄ showed high activity in the synthesis of ۲,۳-dihydroquinazolin-۴(۱H)-one under mild conditions. Furthermore, the catalyst can be easily separated from the reaction mixture, and the recycled catalyst maintained high performance for several cycles.

کلمات کلیدی:

Magnetic nanoparticle, Catalyst, ۲,۳-Dihydroquinazolin-۴(۱H)-ones, Copper

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