

عنوان مقاله:

Facile diastereoselective sonochemical synthesis of isoxazolidines catalyzed by Fe₃O₄-L-proline nanoparticles as a magnetic catalyst

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

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خلاصه مقاله:

Fe₃O₄-L-proline nanoparticles as a magnetic agent catalyzed the synthesis of isoxazolidines and spiroisoxazolidines via the one-pot three-component condensation reaction between N-arylhyroxylamine, arylaldehyde, isatines and α,β -unsaturated aldehyde under ultrasound irradiation. The application of ultrasonic irradiation improved the yields and reduced the reaction times. The use of Fe₃O₄-L-proline catalyst is feasible because of its easy preparation, easy handling, stability, easy recovery, reusability, good activity and eco-friendly.

کلمات کلیدی:

isoxazolidines, sonochemical, L-proline, 1,3-dipolar cycloadditions

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