عنوان مقاله:

Preparation of Novel Green Nano Catalyst and Survey it,s Properties

محل انتشار:

دهمین سمینارملی شیمی و محیط زیست ایران (سال: 1400)

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خلاصه مقاله:

Recently, the development of environmentally benign and clean synthetic procedures hasbecome the goal of organic synthesis. Green chemistry is a rapidly developing new field that provides uswith a proactive avenue for the sustainable development of future science and technologies. Greenchemistry uses highly efficient and environmentally benign synthetic protocols to deliver lifesavingmedicines, accelerating lead optimization processes in drug discovery, with reduced unnecessaryenvironmental impact. Catalytic approaches might be considered as green since specific chemicaltransformation could be achieved within very short time with the addition of very little catalysts,significantly reducing production cost as well as health and environmental risks [۱-۳]. Due to theimportance development of green chemistry, in this research we wish to report green synthesis of novel,efficient, low cost, environmentall friendly with high reusability catalyst using clinoptilolite, and itscatalytic application for green synthesis of Mannich bases on the base of coumarin in addition of otherapplications of this product in green industrial. The .structure of novel nano synthetic catalyst confirmed byvariouse techniques such as XRD, FE-SEM, EDS and FT-IR

کلمات کلیدی:

Green, Nano Technology, Synthesis, Novel, Coumarin