

## عنوان مقاله:

An efficient One-pot Synthesis of Dihydropyrimidinones using Lcysteine Hydrochloride Catalysts for Biginelli Reaction  
.under Solvent-free Condition

## محل انتشار:

دومین همایش ملی پژوهش های کاربردی در علوم شیمی، زیست شناسی و زمین شناسی (سال: 1393)

تعداد صفحات اصل مقاله: 3

## نویسندگان:

Ali Ezabadi - Department of Chemistry, Faculty of Science, Tehran Central Branch, Islamic Azad University, Tehran,  
Iran

Majid Ghermez Cheshmeh

## خلاصه مقاله:

Multicomponent reactions (MCRs) are receiving increased attention because of their high synthesis efficiency, atom economy molecular diversity, as well as extensive applications in combinatorial chemistry and diversity-oriented synthesis. The Biginelli reaction, one of the most important and useful multicomponent reaction, offers an efficient way to get multifunctional 3, 4-dihydropyrimidin-2(1H)-ones (DHPMs) and related heterocyclic compounds. The great interest in DHPMs stems from the fact that this class of compounds and their derivatives has, in principle, pronounced biological activity. L-Cysteine Hydrochloride acts as an efficient, green and readily available catalyst for the synthesis of 3, 4-dihydropyrimidin-2(1H)-ones. This method, in comparison with the classical Biginelli reaction, has several advantages such as short reaction time, high yields, and easy work-up.

## کلمات کلیدی:

L-Cysteine hydrochloride, Biginelli reaction, solvent-free conditions

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/452387>

