

## عنوان مقاله:

SYNTHESIS OF 1,4-DIHYDROPYRIDINE BY CATALYZED SBA-15 VIA THE HANTZSCH REACTION UNDER SOLVENT FREE CONDITIONS

## محل انتشار:

پنجمین همایش ملی شیمی، پتروشیمی و نانو ایران (سال: 1396)

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## نویسندگان:

N. Lotfifar - *Department of Chemistry, Payame Noor University, Golpayegan, Isfahan, Iran*

A. Zolfaghari - *Department of Chemistry, Payame Noor University, ۱۹۳۹۵-۴۶۹۷, Tehran, Iran*

## خلاصه مقاله:

The purpose of this research is the synthesis of meso structured silica or Santa Barbara Amorphous (SBA-15) as a green Nano catalyst which, is used in the Hantzsch synthesis (synthesis of 1,4-dihydropyridine derivatives). The reaction was performed under solvent free condition in a short time and the products were obtained in high yield and purity. Due to the chemical and pharmaceutical applications of these compounds, this work presents a new approach for the synthesis of 1,4-dihydropyridine compounds. The catalyst was separated easily by simple filtration of the .residual and it is reused several times without decreasing the activity

## کلمات کلیدی:

SBA-15, Hantzsch reaction, 1,4-dihydropyridine, green Nano catalyst

## لینک ثابت مقاله در پایگاه سیویلیکا:

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