

## عنوان مقاله:

One-Pot synthesis of 1,4-dihydropyridine Derivatives In the presence of Meglumine@MWCNTs as high efficient catalyst

## محل انتشار:

پنجمین کنگره بین المللی نانو و فناوری نانو (ICNN2014) (سال: 1393)

تعداد صفحات اصل مقاله: 2

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## خلاصه مقاله:

A simple, mild and highly efficient procedure for one pot three component synthesis of 1,4-dihydropyridine derivatives was studied. The reaction was performed using aryl aldehydes, ammonium acetate, ethyl acetoacetate in the presence of Meglumine supported on MWCNTs (meglumine@MWCNTs) as a new high efficient catalyst. The reaction was studied in thermal and ultrasonic conditions. Reaction products were characterized with FTIR, <sup>13</sup>C and <sup>1</sup>H NMR

## کلمات کلیدی:

1,4-dihydropyridine, meglumine, carbon nanotube, meglumine@MWCNTs, heterogeneous catalysts

## لینک ثابت مقاله در پایگاه سیویلیکا:

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