

### عنوان مقاله:

A simple synthesis of imidazole derivatives under microwave conditions in the presence of MgO nanoparticles supported on periodic mesoporous organosilica based on ionic liquids

### محل انتشار:

سومین کنفرانس ملی نوآوری و فناوری علوم زیستی، شیمی ایران (سال: 1399)

تعداد صفحات اصل مقاله: 7

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### خلاصه مقاله:

A simple synthesis of imidazole derivatives has been prepared through multi-component reaction of 1,2- dicarbonyl compounds, various aldehydes and ammonium acetate in the presence of a highly efficient and reusable nanocatalyst (MgO@PMO-IL) in the solvent-free and microwave reaction conditions. The products were isolated in high yields by simple work-up procedure in short reaction time

### کلمات کلیدی:

Solvent-free conditions, Microwave, Multi component reactions, Metal nano-oxide

### لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1146759>

