

عنوان مقاله:

Synthesis Of 5- Arylpyrimido[4,5-B]Quinoline-Diones By Cofe2o4@Sio2/Prnh2 Nanoparticles As Highly Efficient And Magnetically Recoverable Catalyst

محل انتشار:

اولین کنگره و نمایشگاه بین المللی علوم و تکنولوژی های نوین (سال: 1397)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Javad Safaei-Ghomi - *Department of Organic Chemistry, Faculty of Chemistry, University of Kashan*

Zahra samadi - *Department of Organic Chemistry, Faculty of Chemistry, University of Kashan*

خلاصه مقاله:

A green and efficient one-pot process to achieve 5-aryl-pyrimido[4,5-b]quinoline-dione derivatives, using a three-component reaction involving anilines, aldehydes and barbituric acids was developed. This protocol was accomplished efficiently using nano-CoFe₂O₄@SiO₂/PrNH₂ as a heterogeneous catalyst. The significant advantages of this protocol are the use of magnetically recoverable catalyst, high to excellent product yields, operational simplicity and the use of CoFe₂O₄@SiO₂/PrNH₂ nanoparticles as an environment-friendly catalyst.

کلمات کلیدی:

aryl-pyrimido[4,5-b]quinoline-dione, Nano-CoFe₂O₄@SiO₂/PrNH₂, nanocatalyst-5

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/821942>

