## عنوان مقاله:

Meglumine Catalysed Green Synthesis of Ethyl-۶-amino-۵-cyano-۲-methyl-۴-phenyl-۴H-pyran-۳-carboxylate Derivatives


## محل انتشار:

فصلنامه شیمی آلی-فلزی کاربردی, دوره 2, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 9



## نویسندگان:

.Ganesh Pund - *Department of Chemistry, Dr. Rafiq Zakariya College For Women, Aurangabad (MS) India- ۴۳۱۰۰۱*

Sambhaji Dhumal - *Department of Chemistry, Ramkrishna ParamhansaMahavidyalaya, Osmanabad (MS) India- ۴۳۱۵۰۱.*

.Madhav Hebade - *Department of Chemistry, Badrinarayan Barwale Mahavidyalaya, Jalna (MS) India- ۴۳۱۲۱۳*

Mazahar Farooqui - *Department of Chemistry, Maulana Azad College of Arts Science and Commerce, Aurangabad, (MS) India- ۴۳۱۰۰۱).*

.Bhagwansing Dobhal - *Department of Chemistry, Badrinarayan Barwale Mahavidyalaya, Jalna (MS) India- ۴۳۱۲۱۳*



## خلاصه مقاله:

An efficient and simple one-pot synthetic protocol has been developed for the first time to synthesize the series of Ethyl-۶-amino-۵-cyano-۲-methyl-۴-phenyl-۴H-pyran-۳-carboxylates. This was achieved by the cyclocondensation of aromatic aldehydes, malononitrile, and ethylacetoacetate in the presence of the catalytic amount of Maglumine as a readily available, reusable, and biodegradable catalyst. This technique is very promising asit provides mild reaction conditions, an environmentally benign greener approach, easy workup process, high yield, less reaction time, low .cost, and recycled up to five catalytic cycles without substantial loss of catalytic activity or product yield



## کلمات کلیدی:

Meglumine, Recyclable, Ethyl-۶-amino-۵-cyano-۲-methyl-۴-phenyl-۴H-pyran-۳-carboxylates, Reusable, Cyclocondensation