



## Atomized Sodium Catalyzed, Ultrasound Assisted, One-pot four-component Synthesis of a Series of Polysubstituted-tetrahydroquinolines

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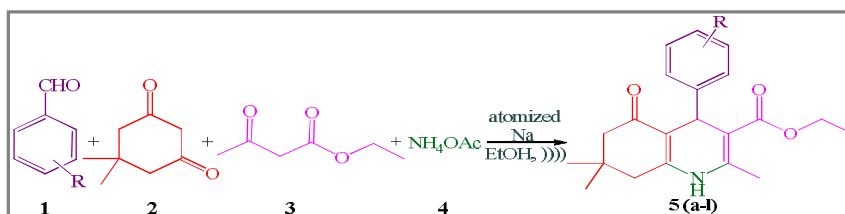
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Accepted on 18<sup>th</sup> December, 2018

### ABSTRACT

Ultrasound-assisted, atomized sodium catalyzed, sustainable, one-pot four-component approach offers a series of polysubstituted-tetrahydroquinolines. The protocol is a green organic synthetic method which works under mild reaction conditions. The ease imparted by ultrasound in the present method divulges the facile, efficient, economical, eco-friendly and clean approach to afford excellent yield of the products in short durations.

### Graphical Abstract



### Highlights

- Ultrasound-assisted, atomized sodium mediated, sustainable, one-pot four-component approach has been developed.
- A series of polysubstituted-tetrahydroquinolines have been synthesized in ethanol.
- The protocol is a green organic synthetic method which works under mild reaction conditions.
- The method is energy efficient, facile, economical and eco-friendly.
- The approach is clean and affords excellent yield of the products in short durations.

**Keywords:** Polysubstituted tetrahydroquinolines, Aryl aldehydes, Ethyl acetoacetate, Dimedone, Atomized sodium, Ultrasonication.