22nd Iranian Chemistry Conference, 23-25 August, 2023
University of Kurdistan

Preparation and characterization of a metal-containing ionic liquid DABCO based *Lewis* acid catalyst for the synthesis of quinoxalines

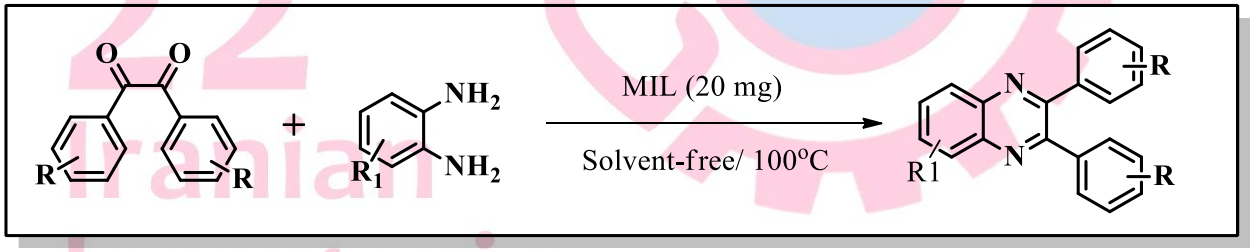
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Quinoxalines are importan nitrogen containing heterocyclic compounds. this compounds can show biological activities, medicinal and therapeutic properties, and also are used in various fields such as paint industry, optoelectronics and agricultural chemistry. There are many methods for the synthesis of quinoxalines, but these methods have disadvantages, including environmental hazards, which cannot be the optimal method for the synthesis of them. Therefore here in we wish to report the use of a new DABCO based metal-containing ionic liquid as a *Lewis* acidic catalyst to achieve the desired compounds [1,2].

This catalyst has unique properties such as high efficiency,short reaction time, easy workup, and the ability to bear a variety of functional groups wich brings economic as well as environmental rewords. (Scheme 1).



Scheme 1: Synthesis of quinoxalines in the presence of DABCO-based metal-containing ionic liquid.

Keywords: Quinoxalines, heterocyclic compounds, ionic liquids containing metal and DABCO

References

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