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Ryhan Abdullah Rather, Zeba N. Siddiqui



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# Synthesis, characterisation and Application of Nd-Salen Schiff base complex Immobilized Mesoporous Silica in solvent free synthesis of Pyranopyrazoles

Authors: Ryhan Abdullah Rather and Zeba N. Siddiqui\*

\*Corresponding author.

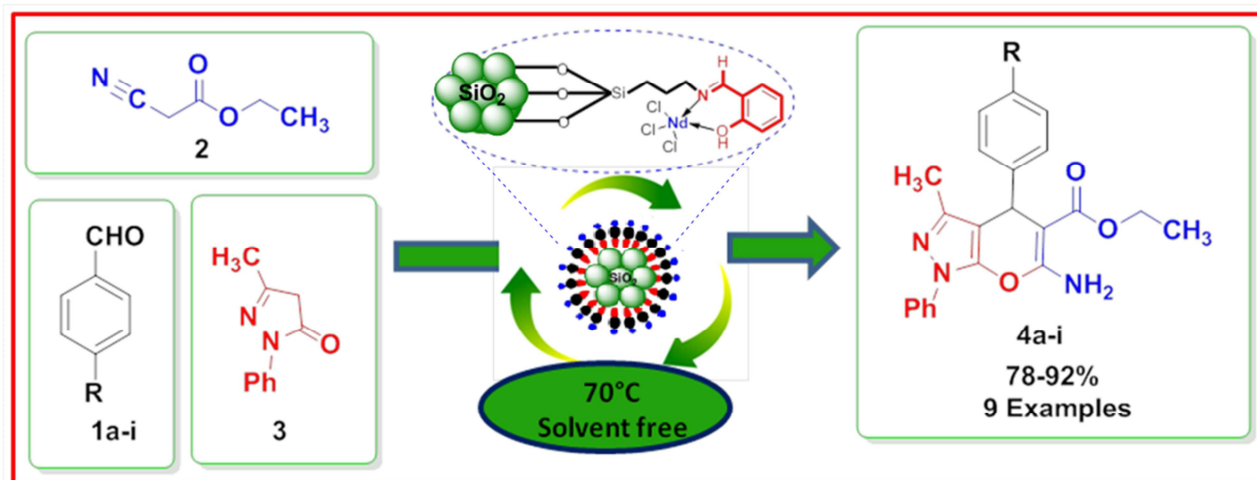
Email: Siddiqui\_zeba@yahoo.co.in

Affiliation: Department of Chemistry, Aligarh Muslim University, Aligarh, 202002, India

## Abstract

The novel Nd-Salen Schiff base complex Immobilized Mesoporous Silica was synthesized by adsorption of  $\text{NdCl}_3$  on mesoporous- $\text{SiO}_2$  and characterized soundly with various spectroscopic techniques such as FT-IR, Powder XRD, BET, TGA, SEM/EDX, TEM and ICP-AES analysis. The properties of mesoporous silica surface facilitate and accelerate the synthesis of desired products in high yields. All reactions progressed with high efficacy under solvent-free conditions and gave excellent yields avoiding slow workup and further purification of products.

Keywords: Pyranopyrazoles. Mesoporous silica. Green chemistry. Solvent free.



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