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# Mesolite: An Efficient Heterogeneous Catalyst for One-Pot Synthesis of 2-Amino-4H-chromenes

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## Abstract

An efficient and environmentally benign method for one-pot three-component synthesis of 2-Amino-4H-chromenes has been developed by cyclocondensation of benzaldehyde, malononitrile and resorcinol using newly modified mesolite-type natural zeolite as green catalyst. The catalyst was structurally modified by surface treatment and characterized by X-ray diffraction, FT-IR, NH<sub>3</sub>-TPD, SEM-EDS and elemental analysis. This method offers several advantages over the reported methods such as simple and inexpensive modification of catalyst, mild reaction conditions, excellent yield and reusability of catalyst.

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**Q KEYWORDS:** 2-Amino-4H- chromenes benzaldehyde malononitrile mesolite one-pot synthesis  
resorcinol

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