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**Advances in Organic Synthesis**

Volume 11

**Chapter 3**

**The Use of Nanocatalysts in the Synthesis of Heterocycles: A Contemporary Approach**

*Sharoni Gupta, Chetna Ameta, Kiran Meghwol, Rakshit Ameta and Pinki B. Punjabi*

**Abstract**

Nanocatalysis is the latest development in the field of synthetic chemistry that has revolutionized the process of chemical transformation. The nanocatalysts offer several advantages as compared to conventional catalyst such as simple and inexpensive methods of preparation, high surface to volume ratio, large number of active sites, high selectivity, enhanced stability, easy recovery and recyclability. In recent years, the nanomaterials have been widely used in the synthesis of heterocyclic moieties. This chapter aims to highlight the role of diverse nanocatalysts in the synthesis of various five-, six- and seven-membered heterocycles. An update on catalytic efficiencies of various nanocatalysts such as magnetic nanocatalysts, nanosized metal complexes, etc.

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