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Oxidation of benzylalcohols in presence of Ni/Bi₂WO₆ nanoparticles synthesized by simple hydrothermal method

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Metal/Oxide nanoparticles due to their special properties such as stability, easy synthesis and reusability are interesting as catalyst for organic oxidation reaction. Ni/Bi₂WO₆ nanoparticles were synthesized by simple hydrothermal method. The obtained-products were characterized by EDS, X-ray Diffraction (XRD) and other techniques. The catalytic activity of Ni/Bi₂WO₆ nanoparticles on oxidation of different alcohols with hydrogen peroxide as green oxidant was investigated. Benzyl alcohol has been used as model alcohol to examine for oxidative activity and selectivity at reflux conditions. Yield of reaction were determined by GC-Mass instrument.

Biography

Rahmatollah Rahimi has completed his PhD at Howard University (USA). He has been now serving as a full Professor in the Department of Chemistry, Iran University of Science and Technology. He has published about 90 papers in reputed journals.

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