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La-Sn oxide nanocatalyst: Efficient materials for the synthesis of cyclohexanones

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Abstract

A series of La-Sn oxide catalysts were synthesized by facile low temperature hydrothermal procedure. La-Sn oxide nanoparticles were characterized by X-ray powder diffraction (XRD), field emission scanning electron microscopy (FESEM) coupled with energy dispersive spectroscopy (EDS), Fourier transform infrared (FTIR) and UV-visible spectroscopy. The FESEM and XRD analysis revealed the growth of nanoparticles with homogeneous morphology, high crystallinity and particle size of < 20 nm. The synthesized nanoparticles showed excellent catalytic activity for the synthesis of cyclohexanones. The effect of variations in La and Sn contents on the progress of reaction was estimated by yield of the products. The recovery of the catalysts after the completion of reactions was also assessed. (C) 2016 Elsevier B.V. All rights reserved.

Keywords

Author Keywords: La-Sn oxides; Nanomaterials; Nano-catalyst; Cyclohexanone; Efficient catalyst

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