

SYNTHESIS AND CHARACTERIZATION OF CONTROLLED-SIZE
CU NANOPARTICLES

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Abstract

In industrial applications, synthesis of monodisperse catalyst particles is problematic, therefore the effect rising from the size in catalytic processes remain unexploited. In this work, copper nanoparticles with narrow size distribution were fabricated with a wet chemistry method, in higher temperature, under argon atmosphere. In this process, 3-15 nm copper nanoparticles were produced with controlled size.

The free standing catalysts were characterized by and transmission electron microscopy, electro diffraction.

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