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Ecological synthesis of CuO nanoparticles

ABSTRACT. The preparation of CuO nanoparticles with a mean primary particle size of 21 nm is described, using commercially available precursors. A key component of the method is sonochemical energy input. The overall method is energy-efficient with minimal waste and is therefore ecology (biosphere)-preserving. In liquid suspension the particles form agglomerates with a mean size of *c.* 500 nm.

Keywords: copper oxide, cupric oxide, nanoparticles, p-type semiconductor, sonochemical method

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