عنوان مقاله:

The Effect of Pyrolytic Temperature on the Size of Zinc Oxide Nanoparticles

محل انتشار:

دومین کنگره بین المللی علوم و فناوری نانو (سال: 1387)

تعداد صفحات اصل مقاله: 3

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خلاصه مقاله:

In recent years, intensive development of nanocrystalline materials in nanotechnology has occurred worldwide. The intensive investigations were stimulated by several application areas being envisaged for these new classes of material. As a wide-band-gap semiconductor, ZnO has been widely studied in solid state sensors, solar cells, blue/UV light emitting devices, etc. [1-4]Various synthetic method have been developed to fabricate ZnO nanocrystals, most of which are based on physical techniques.[5] Despite successful synthesis of ZnO nanocrystals using physical methods, harsh conditions and tedious operations are often required, preventing physical methods from being used for large scale production and their wide application. Recently, several chemical processes have been developed [6]. In this paper the ZnO powders were synthesized by solid state pyrolytic reaction process, novel, low cost, and easy operation, In order to find the effect of temperature and cooling pathways on the particle size, corresponding samples were prepared

کلمات کلیدی: