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Synthesis and Characterization of Ferroelectric Materials for Energy Storage Applications.

Wednesday, 22 May 2013 14:30 (30 minutes)

Barium titanate (BaTiO3) ceramics are ferroelectric materials that present high-dielectric-constants and have been highly study during the past decades due to their electrical and electronic applications. The synthesis process, particle size, and morphology of the material have shown an important influence on the properties of these electronic materials.

The present work aims to synthesizer nanoparticles of composition-modified barium titatante ceramic powder by soft chemical processes. In order to reach the highest value of dielectric constant, some thin layer of electric insulator materials will be deposited onto the surface of the nanopowders. The study and the understanding of the effects on the dielectric properties of the structure of such nanocomposites is a big challenge for future applications.

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