

Physical characterization of BST with different (x') ratios

Abstract

Nowdays Barium strontium titanate (BST) can be applied into many fields of engineering. Its properties attracted more researchers to research and apply it into many fields of study. In this work, sol-gel method of preparing barium strontium titanate (BST) has been used. This work was done with 4 different ratio of x with 4 different deposition layers. The main purpose of this work is to investigate the relation between the ratio of barium (Ba) with different deposition layer and the surface of the substrate. Atomic force microscopy (AFM) was used in whole work to investigate the crystalline structure and surface roughness of the BST thin films.

Keywords; Barium Strontium Titanate (BST), Grain Size, Surface Roughness