

Structural Properties of PbI_2 Thin Film

Abstract

Lead iodide (PbI_2) thin films were successfully prepared by thermal evaporation method on a glass substrate at room temperature. The structural analysis of these films was done by XRD. The results revealed that the crystallite size increases when increasing the film thickness and annealing temperature. In addition, the preferred growth orientation was 001 for all the samples.

Keywords; PbI_2 Thin Film, Structural Properties, Thermal Evaporation