

Mechanical durability of TmSe, TmS and LaBi thin films. / Z. U. Jabua, A. V. Giginishvili. / Nano Studies. – 2015. – # 11. – pp. 151-154. – rus.

The relative mechanical durability of TmSe, TmS and LaBi thin crystalline films is studied for the first time. All films are prepared with method of vacuum and thermal evaporation from independent sources of components on substrates from single-crystalline silicon, polycrystalline glass or leucosapphire. It is shown that, the relative mechanical durability of films depends on substrate material. Relative mechanical durability of films of TmSe prepared with method of vacuum-thermal evaporation from two independent sources and thermal evaporation from previously synthesized compound is investigated. It is shown that the films prepared with method of discrete evaporation have considerably higher mechanical durability than films prepared with evaporation from two independent sources. Fig. 3, Tab. 3, Ref. 4.

Auth.