Investigation on Effect of Sintering Time on (Bi,Pb)2Sr2(Ca,Sm)3Cu4O12 System

Ahmet Ekicibil, Atilla Coskun, Bekir Ozcelik, Kerim Kiymac

 $Cukurova\ University$ - Turkey

Abstract

We have investigated the superconductive and structural properties of the system Bi1.7Pb0.3Sr2Ca2.94Sm0.06Cu4O12 sintered in air at 860oC for the different sintering times. XRD, R-T, DTA, TGA and SEM techniques have been used for the structural analysis. We have also measured the DC magnetic properties of the system by using a VSM equipment.