

## عنوان مقاله:

Effect of Sintering Conditions on Microstructure and the Superconducting Properties of  $YBa_2Cu_3O_{7-x}$

## محل انتشار:

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## خلاصه مقاله:

$YBa_2Cu_3O_{7-x}$  tapes fabricated from precursor powder, were used to investigate the effect of sintering conditions on the microstructure. The sintering experiments were carried out in oxygen over the temperature range of  $915-950^{\circ}C$ . Scanning electron microscopy was used to examine the sintered products. The result indicated a significant increase in densification and grain growth when the tapes were heat treated above  $915^{\circ}C$ . The critical current density in the sintered tapes showed deterioration when the sintering was done at temperatures above  $915^{\circ}C$ .

## کلمات کلیدی:

Superconductor,  $YBa_2Cu_3O_{7-x}$ , X, D.C. Susceptibility, Critical Current Density, Microstructure

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1415914>

