

## Superconducting BiSrCaCuO system and organic reaction

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Bi-Sr-Ca-Cu-O (BSCCO) based superconductor crystals show an accentuated lamellar aspect due to the presence of a perfect cleavage plane (Fig. 1). This interesting characteristic is analogous to the mica group, which shows the same lamellar morphology with a perfect basal plane of cleavage. The atomic layer structure of mica, as other clay minerals, allows the reaction with organic materials by the adsorption of neutral molecules through the basal plane with the expansion of the *c*-axis [1]. This effect contributes to the knowledge of some crystallographical and chemical details of clay minerals and gives information about the spatial organization of the adsorbed molecules [1, 2]. Moreover, the intercalation effect of organic molecules, like glycerol and ethylene glycol, is a commonly used process for X-ray diffraction in the identification of this material [3]. In this work, we try to intercalate neutral dipole molecules through the basal plane of a superconducting sample of the BSCCO system.

Single crystal samples of Bi-Sr-Ba-Cu-O compounds, used in this work were grown by the high temperature solution method with a start composition of  $\text{Bi}_4\text{Sr}_3\text{Ca}_2\text{Cu}_4\text{O}_x$  in platinum crucibles. Starting carbonates and oxides (99.99%) were mechanically mixed and slowly heated until  $880^\circ\text{C}$  and kept at this temperature for 10 h for the complete chemical reaction. A slow cooling program was used to decrease the temperature from  $880$  to  $800^\circ\text{C}$  at a rate from  $0.4^\circ\text{C h}^{-1}$  up to  $2.2^\circ\text{C h}^{-1}$  and finally furnace cooling until room temperature. This nonlinear temperature pro-



Figure 1 The BSCCO sample photographed by a scanning electron microscope (Cambridge Instruments, Stereoscan 250 MK2) with magnification  $\times 2000$ . Chemical microanalysis by X-ray fluorescence indicated a  $\text{Bi}_4\text{Sr}_3\text{Ca}_2\text{Cu}_4\text{O}_x$  composition.

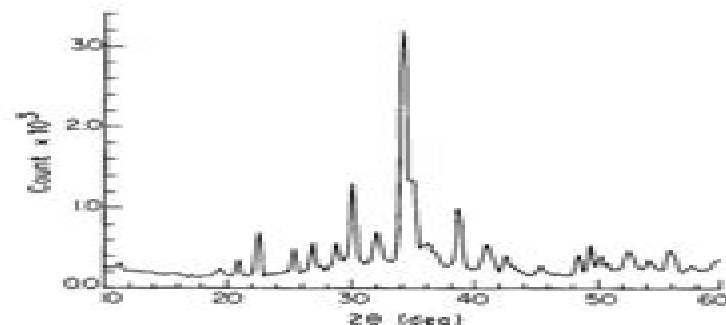


Figure 2 Shows a diffraction diagram of a BSCCO sample after annealing, obtained in an Automated Siemens Diffractometer (type F) using  $\text{CuK}\alpha$  radiation.

gram is based on the maximum stable growth rate equation [4] calculated for this compound. Small single crystals up to  $5 \times 3 \times 1 \text{ mm}^3$  were easily removed mechanically from the solidified phase and one could observe their natural cleavage planes.

Part of the material was annealed in air for 1 h at  $600^\circ\text{C}$ . Fig. 2 shows the powder diffraction diagram of this material after annealing. No significant changes

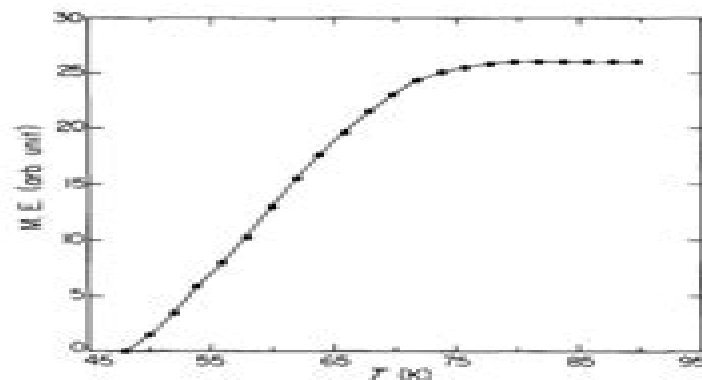


Figure 3 Shows a superconducting phase transition of a BSCCO sample measured in an inductive bridge [5].

# Superconducting Glabceramics In Bisrcacuo

**Cheng-Feng J. Yue**



## **Superconducting Glassceramics In Biscacuo:**

**Superconducting Glass-ceramics In Bi-sr-ca-cu-O: Fabrication And Its Application** Yoshihiro Abe, 1997-12-04  
High Tc oxide superconductors such as Bi Pb Sr Ca Cu O BSCCO and Y Ba Cu O YBCO systems are usually fabricated by sintering given mixtures of raw materials Generally sintering processing takes a longer heating time and the products are mechanically low strength and cannot be formed into complex shapes such as a coil a curved fine tube or a fine rod Another way to produce the ceramics is a glass ceramic process in which the glasses prepared by melt quenching are reheated for crystallization A given mixture of raw materials in BSCCO is easily melted and quenched to form a given shape of glass while that in YBCO is not glassified This invaluable book has been written by authors from five countries It presents a unique way to fabricate superconducting ceramics in BSCCO by glass ceramic processing **Characterization and Microstructure Control of Sheathed Superconducting BiSrCaCuO Thick Films by Ac-electric-field Assisted Electrophoretic Deposition** Cheng-Feng J. Yue, 1998

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