CEC-ICMC 2017 - Abstracts, Timetable and Presentations



Contribution ID: 299

Type: Poster Presentation

Effect of Y2O3 pinning on the magnetic properties of Y123 superconductor

Tuesday 11 July 2017 13:00 (2 hours)

To study the effect of Y2O3 doping on YBCO films under magnetic field. Different content of Y2O3 doped YBCO films are fabricated by self-developed MOCVD. The morphological features of YBCO films were characterized by FESEM. The crystal structure of YBCO film was determined by XRD and Raman. The surface morphology was investigated by AFM. The relationship between the Jc of YBCO films and Y2O3 content is studied. The relationship among Jc, magnetic field and Y2O3 content is carefully studied.

Author: Mr JIN, Chengchao (Shanghai Jiao Tong University)

Co-authors: Prof. HWANG, Huey-Liang (Shanghai Jiao Tong University); Mr TONG, Hua (Shanghai Jiandu Optoelectronics Technology Ltd.)

Presenter: Mr JIN, Chengchao (Shanghai Jiao Tong University)

Session Classification: M2PoC - Focused Session: Latest Development in Flux Pinning I: Flux Pinning, Critical Currents