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## **Effect of Y<sub>2</sub>O<sub>3</sub> pinning on the magnetic properties of Y123 superconductor**

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To study the effect of Y<sub>2</sub>O<sub>3</sub> doping on YBCO films under magnetic field. Different content of Y<sub>2</sub>O<sub>3</sub> 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 J<sub>c</sub> of YBCO films and Y<sub>2</sub>O<sub>3</sub> content is studied. The relationship among J<sub>c</sub>, magnetic field and Y<sub>2</sub>O<sub>3</sub> content is carefully studied.

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