

Fabrication and Characterization of High-temperature Superconducting Materials with High Magnetic Field

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Since superconducting bulk material is compact and can generate a strong magnetic field, it is expected to be applied to various devices as a magnetic field generation source. High magnetic field strength, magnetic field uniformity, and magnetic field stability are required so as to apply superconducting bulk material to magnets. In order to realize these high characteristics, we fabricated and evaluated MgB_2 and RE-based superconducting bulk material.