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Nota di contenuto	High-Temperature Superconductor Materials, Devices, and Applications; Contents; Preface; YBCO Coated Conductors; Improving

Flux Pinning in YBa2Cu3O7 coated Conductors by Changing the Buffer Layer Deposition Conditions; Processing and Characterization of (Y1-x Tbx)Ba2Cu3O7-z Superconducting Thin Films Prepared by Pulsed Laser Deposition; Finite Element Modeling of Residual Stresses in Multilayered Coated Conductors; Pulsed Laser Deposition of Nd-Doped YBa2Cu3O7-6 Films; Buffer Layers; Epitaxial Growth of Eu3NbO7 Buffer Layers on Biaxially Textured Ni-W Substrates
Pulsed Laser Deposition of (Y1-xCax)Ba2NbO6 (x = 0.0, 0.05, 0.1, 0.2, 0.4) Buffer LayersElectrodeposited Biaxially Textured Ni-W Layer; Growth of Ba2YNbO6 Buffer Layers by Pulsed Laser Deposition on Bi-axially Textured Ni-Alloy and Cu-Alloy Substrates; Bulk Superconductors; Coarsening of BaCeO3 and Y2BaCuO5 Particles in YBa2Cu3O7-x Semisolid Melt; The Microstructure and Superconducting Properties of YBa2Cu3Oy-Based Ceramics; The Crystal Structures of Some Transition Metal Stabilised Mercury Cuprate Superconductors; Author Index; Keyword Index

Sommario/riassunto

This proceedings investigates the relationship between features at the atomic level including oxygen vacancies, stacking faults and site order/disorder, grain boundaries, film-substrate interactions, buffer-superconductor interactions, thermodynamic, transport, and other macroscopic properties. This proceedings will also cover fundamental material properties studies, new growth methods, device and materials integration research, and developments in designing and growing new materials, all involving epitaxial superconducting thin films.