



Key Materials for Superconducting Devices

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Message from the Guest Editors

The content discusses superconducting innovation, focusing on high-temperature superconductors like $REBa_2Cu_3O_{7-\delta}$ (REBCO) compounds for second-generation high-Tc superconducting tapes. It aims to optimize performance and reduce production costs. Traditional methods like MOCVD, PLD, and sputtering are used for REBCO films, but chemical solution deposition (CSD) is a cost-effective alternative. Low-temperature superconductors, particularly Nb₃Sn, are explored for high-energy physics applications. MgB₂ is used in MRI machines and fault current limiters. Iron-based superconductors (IBS) are emerging for various applications due to their diverse phases and properties. The Special Issue in Crystals invites research papers to advance knowledge of superconducting materials and devices.

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Message from the Editor-in-Chief

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