



Advances in Cuprates and Iron-Based Superconductors: Physics, Properties, and Applications

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Message from the Guest Editors

The discovery of superconductivity in cuprates was received with great enthusiasm due to the fact that T_c can exceed the temperature of liquid nitrogen in many cases. Nevertheless, due to issues such as high anisotropy values, superconductor–insulator–superconductor (SIS) grain boundary junction, etc., materials like YBCO or BSCCO have never been fully exploited for superconductivity power applications. Nevertheless, the interest in these materials has always existed. Furthermore, despite having a lower T_c than cuprates, iron-based superconductors (IBSs) exhibit higher J_c and H_{c2} values along with lower values of anisotropy and superconductor–normal–superconductor (SNS) grain boundary junction, and thus have been proposed as a valid alternative to cuprates.

For more details, please see the Special Issue website at:

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