



## High Temperature Superconductor

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### Message from the Guest Editors

Dear Colleagues,

Superconductors, as a class of unusual materials, exhibit unique behaviors, such as zero resistance, and have greatly practical applications. Therefore, the research into superconductors has attracted widespread attention, especially in the fields of condensed matter physics, chemistry, and materials science. In previous research, mercury was observed to show superconductivity at 4.2 K, opening the door to finding superconductors. Subsequently, the conventional superconductor MgB<sub>2</sub>, described by the Bardeen–Cooper–Schrieffer (BCS) theory, was synthesized and had a significantly high-temperature (high-T<sub>c</sub>) superconductivity of 39 K at ambient pressure, which motivates researchers to discover higher-T<sub>c</sub> superconductors.

The goal of this Special Issue titled “High Temperature Superconductors” is to offer frontier advances in the study fields of novel excellent superconductive materials by revealing the relationship between superconductivity, structures, and electronic, electrical, etc., properties of materials. Authors are invited to contribute to the Special Issue with articles presenting exciting theoretical and experimental progress.





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## Message from the Editor-in-Chief

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