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Research on High-Temperature Superconducting Materials

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Message from the Guest Editors

The properties of high-temperature superconducting materials are determined by both their intrinsic characteristics (e.g., crystal structure, grain, defect, etc.) and the external environment (e.g., temperature, pressure, electromagnetic field, etc.). Nevertheless, the physical mechanism behind the superconductivity of such inorganic crystalline ceramics remains unclear, as it cannot be fully explained by either the Bardeen-Cooper-Schrieffer theory, the resonating valence bond theory, or the spin fluctuation theory.

In view of the above, it is worth further investigating the correlation between the high-temperature superconductivity and the microscopic structures of HTSs and exploring their electromagnetic, mechanical, as well as thermal characteristics in various physical/chemical/engineering scenarios. This Special Issue is aimed at providing a useful platform for scientists and researchers working in superconductivity related domains to share new insights and advancements in understanding, characterisation, and application of HTSs, addressing a variety of facets of the topic.







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Message from the Editor-in-Chief

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