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Recent Advances in Superconducting Alloys and Compounds

Guest Editor:

Dr. Zhi Ren

Department of Physics, School of
Science, Westlake University, 18
Shilongshan Road, Hangzhou
310024, China

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Message from the Guest Editor

Dear Colleagues,

Superconductivity is a macroscopic manifestation of the quantum mechanics. Since its discovery in 1911, the exploration of new superconductors has been a long-standing pursuit in the materials research community because it not only strengthens our understanding of the superconducting mechanism, but also leads to potential applications. In recent years, topological superconductors, non-centrosymmetric superconductors, and high-entropy superconductors are several active subjects of investigation.

This Special Issue aims to collect the latest research results on these superconductors. The work published in the Special Issue is expected to comprise studies on the synthesis, crystal structure, and physical properties of solid-state materials, including (but not limited to) alloys and compounds, contributing to the development of areas of interest. The papers that report theoretical predictions and review latest research advances are also welcome.

Keywords:

- superconductivity
- nontrivial band topology
- non-centrosymmetric crystal structure
- large configuration entropy



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Special Issue



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
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