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## Challenges and Opportunities of Superconducting Materials for Future Applications

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Deadline for manuscript  
submissions:

**closed (31 October 2021)**

### Message from the Guest Editors

This Special Issue will present the latest results on the improvement of superconductors in their different forms (i.e., thin films, single crystals, and bulks), as well as recent findings which help to understand the physics of superconducting materials in order to improve their performance in view of applications. We encourage the community active in both experimental and theoretical research on superconductors to share this knowledge.

This Special Issue will be focused on all different kinds of superconductors (low temperature, high temperature, iron-based, etc.) which are suitable for applications and will include, but not be limited to, the following topics:

- Electrical transport properties' improvement;
- Thermal transport and quench;
- Novel materials fabrication and structural characterization;
- Magnetic and superconducting heterostructures;
- Nanostructured superconductors;
- Wires' and tapes' technology development;
- Superconducting films for sensors, electronic devices, and spintronics;
- Non-equilibrium vortex dynamics: models and findings;
- Imaging of vortex matter and material defects;
- Material properties for practical superconductors.



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# Special Issue



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## Message from the Editor-in-Chief

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