



Superconducting Films and Nanostructures

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Superconducting materials hold great promise to revolutionize sustainable energy conversion, transport, storage, and consumption, as well as offer new perspectives for novel multifunctional materials and unique electronic device applications. Since the discovery of cuprate high temperature superconductors in 1986, a large number of new superconducting materials, with promising performances, have been found. [...]

This Special Issue aims to focus on the latest advances in superconducting film processing nanoengineering, characterization, and their fundamental impact on all practical applications.

In particular, the topics of interest include but are not limited to:

- Thin films, multilayers, and high-temperature superconductors;
- Nanostructured and nanocomposite superconducting films;
- Hybrid systems (e.g., magnetic/superconductor heterostructures);
- Low-dimensional superconductors and unconventional materials;
- Applications and devices based on engineered superconducting films;
- Novel functionalities in superconducting electronic devices.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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