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Novel Thin Film Materials for Thermoelectric Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editor

Dear Colleagues,

This Special Issue on "Novel Thin Film Materials for Thermoelectric Applications" is intended to cover original research and critical review articles on recent advances in all aspects of novel thermoelectric materials and their processing in thin films, deposition methods for thermoelectric thin films, characterization techniques of thin film thermoelectrics, all aspects of applications of thermoelectric thin films.

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

- Deposition techniques for TE thin film materials
- Structural characterization of TE thin films
- Characterization methods of TE properties of thin films
- Quantum confinement, Phonon drag, 2D materials
- Physics and chemistry of novel TE materials for thin films
- Theory and modelling of TE thin films
- Energy harvesting applications of TE thin films
- Integrated cooling devices based on TE thin films
- TE thin film sensors and applications
- TE nanodevices

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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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