

Novel Thin Film Materials for Thermoelectric Applications

Guest Editor:

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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 called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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