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Thermoelectric Compounds: Processing, Properties and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2020)

Message from the Guest Editor

Dear Colleagues,

Thermoelectric compounds are an exciting category of materials that can convert a temperature gradient into electricity through the Seebeck effect. Thus, thermoelectric technology is promising for improving energy efficiency in environments where waste heat is produced (e.g. industrial processes, automotive exhaust, wearable items). The maximization of thermoelectric properties passes through the development of new materials and the optimization of the existing ones by means of reliable and affordable processing routes.

This Special Issue will focus on

- the relationship between processing and properties of thermoelectric materials;
- the development of new thermoelectric compounds;
- case studies of thermoelectric applications.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Dr. Alberto Castellero
Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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