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Synthesis, Characterization and Applications of Thermoelectric Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editor

Dear Colleagues,

Efficiency in electricity production and application have been the topic of many investigations in recent years. Dissipation from primary energy in the form of heat is very high at around 70%. A large amount of useful energy is unfortunately lost as waste heat, and thus, relevance has been given to the development and production of possible solutions to recover that heat waste. Thermoelectric materials, for example, can reuse this lost energy by converting it into electricity. In recent decades, the exploration of thermoelectric materials with high performance has attracted attention with the goal of commercial solutions/applications.

In this Special Issue, we will collect the newest advances in thermoelectric research, including new processing techniques, material designs, thermoelectric characterization, etc.

- thermoelectric devices
- thermoelectric modules
- thermoelectric materials
- structural defects on thermoelectric performance
- transport properties of thermoelectrics
- mechanical and thermal properties of thermoelectrics
- conventional and unconventional synthesis techniques for thermoelectric processing
- energy conversion efficiency

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Special Issue

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Message from the Editor-in-Chief

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