

Special Issue

Novel Trends in Thermoelectricity

Message from the Guest Editors

Intense research in conventional bulk thermoelectric materials has brought about significant advances. Successful approaches to high ZT have been developed, such the phonon-glass electron-crystal concept, nanostructuration, Zintl chemistry, and band engineering. Simultaneously, high-throughput screening by theoretical predictions can identify many promising materials.

Accordingly, reports on high efficiency have raised expectations for waste heat recovery, co-generation, cooling, and thermal sensors. Also of crucial importance is reducing the errors measurements of thermoelectric transport properties.

Thus, the scope of this Special Issue “New Trends in Thermoelectricity” encompasses original work on new preparation methods of nanostructured thermoelectric materials, detailed structural characterization, thermoelectric transport properties of promising candidates, improvement of the Figure of Merit by novel approaches in well-known materials, potential applications for novel thermoelectric materials and development and refinement of measurement techniques for thermoelectricity.....

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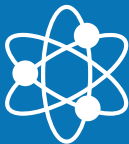


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