



Advances of Thermoelectric Materials

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Message from the Guest Editors

Dear Colleagues,

Thermoelectric energy conversion represents an excellent viable way to reduce greenhouse gas emissions and provide energy security to an increasing global population. However, although significant improvements in the performance of thermoelectric materials have been recently achieved, the path for practical applications of thermoelectric devices appears still long.

The Special Issue is to publish papers that will help discover novel thermoelectric materials and provide a deeper understanding of the properties of existing ones through the application of theoretical and experimental methods. Particularly, the correlation between material structure and thermoelectric properties, thermal transport, and thermal conductivity is noteworthy.

The materials framework may include, but is not limited to, ceramics, oxides and chalcogenides, alloys and intermetallic, 2D structures, and nanoalloys that combine inorganic and organic components. Papers that report the application of well-consolidated approaches for materials discovery, and report the development of new methods or the enhancement of existing approaches, are of particular interest.

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Message from the Editor-in-Chief

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