Special Issue

Advanced Thermoelectric Materials, Devices and Systems

Message from the Guest Editor

Fossil fuel energy sources are causing increasing numbers of environmental problems, which has led to the search for and development of renewable energy sources. Among the promising options, thermoelectric is utilized in various power generation and refrigeration-related applications. This Special Issue intends to examine the most recent advancements in thermoelectric technologies for energy harvesting and cooling applications. It gives researchers in the field an excellent place to share what they have learned about fundamental thermoelectric research, the challenges and synergies associated with producing thermoelectric materials, devices and systems, and how they have used their knowledge to keep up with the current trends. Topics covered in this SI include, but are not limited to, the following:

- Characterization of thermoelectric materials;
- Study of bulk and thin-film thermoelectric materials, devices and systems (both experimental and theoretical);
- Utilization of computer-aided thermoelectric materials, devices and system design.

Guest Editor

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Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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