Special Issue

Advanced Materials and Modules for Thermoelectric Energy Conversion

Message from the Guest Editor

Many research efforts are currently underway to identify novel families of materials or to propose new strategies either for modulating electronic band structure or enhancing phonon scattering—the final goal being to achieve higher thermoelectric performance. The main purpose of this issue is to provide an overview of the current research trends in thermoelectric materials and modules. We invite researchers to enrich our knowledge in understanding the physics and chemistry of advanced thermoelectric materials and to design innovative modules for cooling or power electrical generation, by providing review articles as well as original papers. Thus, this Special Issue of *Materials* will cover, but will not be limited to, the following topics:

- Inorganic/organic thermoelectric materials;
- Nanostructured thermoelectric materials;
- New concepts/approaches to boost the thermoelectric performance;
- Thermoelectric modules (design, modelling, protection).

Guest Editor

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Message from the Editor-in-Chief

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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