Special Issue

Engineering Applications of Thermoelectric Materials and Devices

Message from the Guest Editor

During the last two decades, we have witnessed a great breakthrough in improving the zT values of thermoelectric (TE) materials. However, thermoelectric materials and devices have not yet seen industrial applications. In working conditions, TE devices may suffer from thermal-cycling stresses, leading to the degradation of TE materials and their mechanical properties, resulting in device failure. The engineering applications of TE materials and devices inspire us to elucidate many significant scientific issues, such as the mechanical properties of TE materials, the performance stability of TE materials and devices, the interface stability of TE materials/joint metals, the fracture and fatigue processes for TE materials, their damage mechanisms, etc. This Special Issue focuses on the above topics regarding the “Engineering Applications of Thermoelectric Materials and Devices”. Authors are welcome to publish their research on all the above topics to promote the industrial application of thermoelectric materials and devices.

Guest Editor

Prof. Dr. Guodong Li

State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan 430070, China

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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