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

Dr. Chun-I Wu

Department of Mechanical and Mechatronic Engineering, National Taiwan Ocean University, Keelung, Taiwan

Deadline for manuscript submissions

closed (20 December 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/159249

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

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.

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)