



an Open Access Journal by MDPI

Recent Progresses in Thermoelectric Materials

Guest Editors:

Dr. Hsin-Jay Wu

Department of Materials Science and Engineering, National Chiao Tung University, Hsinchu 30010, Taiwan

Dr. Kesavan Manibalan

Department of Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu 30010, Taiwan

Deadline for manuscript submissions: closed (20 January 2024)

Message from the Guest Editors

Pursuits in technology development and environmental sustainability have driven research trends in opposite directions until the blossoming of green energies, which satisfy the aims of both. Thermoelectric (TE) materials, which enable the conversion of thermal energy into electricity, are specialized in waste-heat recovery using a thermoelectric generator (TEG), or spot-cooling via a thermoelectric refrigerator. Both applications help ease the burden of the growing energy shortage issue and protect our earth by reducing heat emissions, making the TE technology green and sustainable.

Keywords

- green energy
- thermoelectric materials
- thermoelectric modules
- thermal conductivity
- electrical conductivity









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi