Special Issue

High-Performance Thermoelectric Materials and Devices for Energy Conversion

Message from the Guest Editors

Thermoelectrics could realize heat–electricity conversion, which is important for carbon neutralization. However, the key challenge that researchers face is the electrical–thermal transport decoupling. And for practical use, the device construction and optimization decide the future of the thermoelectric community. This Special Issue will focus on “High-Performance Thermoelectric Materials and Devices for Energy Conversion”, which includes reports on new transport mechanisms, strategies for carrier–phonon decoupling, methods of constructing high-performance thermoelectric devices, low-dimensional thermoelectrics, and new types of thermoelectrics. New concepts, promising materials, and insightful results are welcome. It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

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Deadline for manuscript submissions

30 November 2025

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/243260

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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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