Special Issue

Magnetocaloric and Thermoelectric Properties of Inorganic Materials

Message from the Guest Editor

Materials for energy conversion and transfer are currently very important for environmental reasons. Magnetocaloric materials can give us better cooling efficiencies than traditional refrigerators. Thermoelectric materials can help us to recover heat that would otherwise be lost. There are also many niche applications of magnetocaloric and thermoelectric effects in areas like cryogenic refrigeration, sensors, small-scale refrigeration, and many others. Therefore, experimental and theoretical research in this field has been growing almost exponentially in recent years, with almost 6000 papers devoted to thermoelectric properties in 2018 alone. This Special Issue is devoted to both magnetocaloric and thermoelectric materials, and experimental as well as theoretical studies are welcomed.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/36633

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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.

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