Special Issue

Recent Advances in Thermoelectricity: Materials Processing, Characterization and Modelling

Message from the Guest Editors

Advances in functional materials are decisive in addressing current challenges for energy conversion. As thermoelectricity allows for the conversion of heat to electricity, and vice versa, it could play a significant role in the future of energy harvesting. Thermoelectric materials have been extensively investigated these last few decades; however, the use of thermoelectricity on a widespread scale still necessitates more research efforts, in particular on the understanding of the relationships between materials' structures and properties. We are delighted to devote an issue to the recent advances made in thermoelectricity that help to deepen our understanding of these materials. This Special Issue gathers articles addressing recent achievements in thermoelectric materials, bulk, nanostructured and low-dimensional ones, investigated by either modeling or experimental approaches. Full papers, short communications, and reviews are all welcome.

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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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