Special Issue

Thermoelectricity and Energy Transfer

Message from the Guest Editor

This issue aims to collect studies performed on thermoelectric materials and devices from different types of structures, including nanostructured materials and bulk materials. Since thermal treatment and high energy beam modify thermoelectric devices, causing quantum dot formation in the quantum layers, many remarkable results can be reached after those effects. Nanostructured systems may include but are not limited to single nanolayers, multilayer heterostructures, superlattice systems, etc. Different kinds of material systems may be selected from the periodic table for different purposes of applications at different temperatures and environmental conditions. Authors are invited to share their manuscripts prepared using different material systems and their results from different characterization techniques. Those techniques may include but are not limited to the Seebeck coefficient measurement, four probe van der Pauw resistivity systems, thermal conductivity measurements, different kinds of optical and electrical measurements systems such as SEM, TEM, FIB, XPS, Auger, NMR, Optical Absorption, FTIR, Raman, DSC, etc...

Guest Editor

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Deadline for manuscript submissions

closed (28 January 2022)

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