

Special Issue

Thermal/Thermoelectric Transport in Nanostructured System

Message from the Guest Editor

Nanostructured materials have been found to be potential thermal transport optimizers, especially in the thermoelectric (TE) fields. The preparation methods of bulk nanostructured TE materials include solid state reaction, spark plasma sintering, etc., while thin film nanostructured TE materials are prepared via pulse laser deposition, molecular beam epitaxy, etc. Nanostructured TE materials have shown interesting, surprising, and outstanding properties in energy materials fields. Every day, researchers around the globe develop new nanostructured TE material with improved functionalities for TE applications. This Special Issue aims to provide a perspective on exciting new developments in thermal/thermoelectric transport in nanostructured systems for bulk and thin films. We invite original research contributions or concise reviews both on the synthesis and characterization of thermal/thermoelectric transport in nanostructured systems, as well as their applications in TE systems. We look forward to learning more about your most recent discoveries soon.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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