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Thermal Properties of Nanomaterials: Fundamentals and Applications

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Message from the Guest Editors

Nanomaterials research and development has been the catalyst for significant findings in a wide range of technologies, from pharmaceuticals to building materials to molecular electronics. It continues to be explored in terms of fundamental studies and applications in various scientific and technological fields. The wide scope of nanomaterials research ranges from development of new classes of materials, to manipulation of elements at atomic scales, to synthesis and characterization, and applications. Thus, this Special Issue focuses on “Thermal Properties of Nanomaterials: Fundamentals and Applications” in order to provide a dedicated platform to put forward recent ideas and findings in this particular area of research. Nanostructures play an important role in determining the physical properties of materials, including thermal properties such as thermal conductivity, melting point, heat capacity, etc. The scope of this Special Issue will cover the fundamentals, materials development, synthesis and applications relevant to nanomaterials with regards to its thermal properties.

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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.

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