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Thermal Transport in Nanostructures and Nanomaterials

Guest Editor:

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Deadline for manuscript submissions:
closed (25 December 2020)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is currently focusing significant research efforts in different research communities, including material scientists, condensed matter physicists, and computational modelers. Different target applications are currently being investigated, including nanocomposites and other nanostructures with enhanced thermal conductivity, extremely low thermal conductivity aerogels, thermoelectric materials, and phononic materials. The study of phenomena associated to heat transfer across interfaces in nanomaterials, as well as the engineering of interfaces to obtain nanomaterials with superior thermal properties, are currently fascinating yet challenging research topics, which are expected to soon merge into a unique multidisciplinary research domain.

This Special Issue will attempt to cover the most recent advances in “Thermal Transport in Nanostructures and Nanomaterials”, concerning their design, manufacturing, characterization and computational modelling, as well as exploitation in devices.

Please **click here to submit your manuscript**.

Prof. Dr. Alberto Fina
Guest Editor

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Editor-in-Chief

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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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