Special Issue

Thermally Conductive Nanomaterials and Their Applications

Message from the Guest Editors

Over the past few decades, nanomaterials have garnered significant attention, especially regarding their unique thermal conductivity properties. This field spans, but is not limited to, thermal interface materials, thermally conductive composites, and cooling solutions for electronic devices. Optimizing the thermal performance to meet the growing demands of microelectronics and energy storage devices is the main goal of current research. The present Special Issue on *Nanomaterials* is aimed at introducing the role and application of nanomaterials in thermal conductivity enhancement. Fundamental theoretical research, simulations and modeling, experimental validations, and applications of these nanomaterials are suitable for the Special Issue. Please see more details at the following link: mdpi.com/si/183001 We look forward to receiving your contributions.

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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

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