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Electronic and Thermal Properties of Graphene

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Message from the Guest Editor

Dear Colleagues,

Graphene is a revolutionary 2D material that has the potential to change the world with unlimited potential for incorporation in any industry. Having exceptional conductivity towards both heat and electricity, it is a promising choice for next-generation electronics. It has always remained under accelerated advancements for further improvements in the potential applications of graphene-based devices. These include, to name a few, bandgap tuning, surface functionalization, and doping; they have opened a whole new gateway towards long-lasting batteries, ultra-fast CPUs, COMS image sensors, etc. While the theoretical opportunities are endless, practical capabilities are yet to be resolved. Accordingly, we are bringing a Special Issue of this journal to encourage researchers worldwide and providing them with a platform to publish their novel studies and a chance to submit their valuable reviews dedicated to the latest developments utilizing graphene in smart devices. We hope to receive your valuable input to make this issue successful.

Prof. Kyong Yop Rhee
Guest Editor



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Special Issue



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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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