



Highly Thermal Conductive Nanocomposites

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

As transistors continue to decrease in size and packing densities increase, thermal management is becoming the critical bottleneck for the development of the next generation of compact and flexible electronics. The increase in computer usage and ever-growing dependence on cloud systems highlight the need for better methods of dissipating heat away from electronic components. The most important components in thermal management are highly thermally conductive nanocomposites.

This Special Issue aims to cover current experimental and/or computational studies in the field of nanocomposites with high thermal conductivity. Submissions which cover advanced preparation methods, characterizations, micro/nanoscale heat transfer and a fundamental understanding of structure–thermal conductivity relationships are particularly welcome.

Prof. Dr. Xiaoliang Zeng

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.

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