

Special Issue

Advances in Nano-Engineered Composite Materials for Thermal Management

Message from the Guest Editor

We extend a warm invitation for you to submit original research articles and review articles for a Special Issue focusing on recent advances in nano-engineered composite materials. Specifically, we are interested in their applications in temperature regulation, thermal energy storage, nanofunctionalization, and diverse scenarios. In recent years, the rapid progress in nanotechnology has expanded the horizons of composite material research and application. This Special Issue seeks to explore the innovative uses of nano-engineered composite materials across various domains, with a particular emphasis on temperature regulation, thermal energy storage, nanofunctionalization, and their versatile applications. Topics of interest include, but are not limited to, novel designs and performance evaluations of nanocomposite materials for temperature regulation and thermal management, the impact of nanofunctionalization on composite material properties, and the utilization of nano-engineered composite materials in thermal science, biomedical applications, civil engineering, electronic information, and beyond.

Guest Editor

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Deadline for manuscript submissions

closed (14 June 2025)



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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.

Editor-in-Chief

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