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Advances in Nano-Enhanced Thermal Functional Materials

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Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Nanomaterials* aims to highlight recent research advances in developing advanced nano-enhanced thermal functional materials for a variety of heating/cooling related applications. We are looking forward to receiving contributions in the form of both research articles and review articles related to the synthesis, characterization, application of nano-enhanced thermal functional materials from diverse research disciplines to promote further rapid growth of the field.

Potential topics include, but are not limited to, the following:

- Nanostructured thermal conversion materials;
- Nano-enhanced thermal storage materials;
- Nano-enhanced thermal management materials;
- Nano-enhanced thermal responsive materials;
- Mechanistic understanding of nano-enhancement effect;
- Diverse thermal-related applications

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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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