Special Issue

Future and Prospects in Nanofluids Research

Message from the Guest Editors

This Special Issue will cover the synthesis, preparation, and characterization of both nanomaterials and associated nanofluids, focusing on the next-generation applications of nanomaterials with outstanding performances in terms of stability, thermophysical properties, and heat transfer behavior relevant for industrial applications. The development of new theoretical and physical models, as well as simulations closer to practical situations, are also expected. Topics to be covered by this Special Issue include, but are not limited to, the following:

- Nanomaterials and Nanofluids preparation and characterization
- Measurements and theoretical development of Nanofluid properties, Nanofluid heat transfer and Nanoparticle-enhanced phase change materials
- Experimental and theoretical analysis on nanofluid transport in porous media
- Numerical simulations relevant for potential applications
- New numerical models for estimation of nanofluids heat transfer behavior
- New innovative areas of nanofluid applications
- Critical assessments and future directions in Nanofluids research

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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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