

Special Issue

Applications of Nanofluids

Message from the Guest Editor

Nowadays, the optimization of different engineering devices and the development of medicine techniques demand to use the “smart” liquids that have a high thermal conductivity, and an opportunity for targeted drug delivery. Such “smart” liquids, known as nanofluids, are the suspension of a base liquid (water, oil, and others), and nanosized particles of metal, metal oxide, or biodegradable polymers. In the case of heat transfer enhancement, the usage of nanofluids allows for increasing the effective thermal conductivity, and as a result, a growth of the heat transfer rate is expected. In the case of medicine applications, the usage of nanoparticles from biodegradable polymers can be very good transport for drugs. An analysis of the nanofluid applications can be performed using theoretical or experimental techniques. Theoretical methods also include numerical simulations, which have many advantages [...] For further reading, please follow the link to the Special Issue website at:
<https://www.mdpi.com/si/34949>

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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