

Special Issue

New Trends of Nanofluidics and Nanofluids

Message from the Guest Editor

Nanofluidics is the study and manipulation of fluids confined to nanometer-sized structures. Nanofluids are a class of new engineered fluids that contain nanometer-sized (metallic or non-metallic) particles. Both nanofluids and nanofluidics have been emerging research topics that have attracted plenty of researchers recently. Nanofluidic devices have potential applications in DNA sequencing, epigenetic analysis, gene therapy, drug delivery, and toxicity analysis. Nanofluids have been found to possess enhanced thermo-physical properties, such as thermal diffusivity, thermal conductivity, and viscosity, compared with those of conventional fluids. As a result of this significance and the potential applications of nanofluidics and nanofluids, this Special Issue is focused on “New Trends of Nanofluidics and Nanofluids” in the *Nanomaterials* journal to cover recent developments and applications. For further reading, please follow the link to the Special Issue Website at: <http://www.mdpi.com/si/74001>

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/74001

Nanomaterials
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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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