



an Open Access Journal by MDPI

Theory and Computational Model of Nanofluids

Guest Editors:

Message from the Guest Editors

Dear Colleagues,

Dr. Taseer Muhammad

Dr. Metib Alghamdi

Dr. Ali Saleh Alshomrani

Deadline for manuscript submissions: closed (1 May 2023) Currently, nanofluids are commonly useful in food, nuclear power stations, medication, agriculture, and other applications. Such fluids are developed from the continuous dispersion of nano-sized particles in base fluids including water, lubricating oils, ethylene glycol, blood, or other fluids. Hybrid nanofluids are formed by the dispersion of two or more components in a given base fluid. Such fluids have numerous applications in medicine research and technology. The majority of medications are manufactured as hybrid nanofluids, and blood is utilized as a base fluid to assess the chemical interactions of

compounds in blood. In addition, hybrid-type nanofluids are employed to improve the thermal efficiencies of base fluids.

This Special Issue titled "Theory and Computational Model of Nanofluids" aims to discuss relevant contributions exhibiting theoretical and computational relations in nanofluids in order to improve the performance of heat transfer systems. We welcome original research articles as well as review articles dealing with the novel contribution of nanofluids.

Specialsue

We look forward to receiving your contributions.



mdpi.com/si/111518





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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, metalorganic 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us

Nanomaterials Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/nanomaterials nanomaterials@mdpi.com X@nano_mdpi