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Nanotechnology for Heat Transfer and Storage

Guest Editors:

Prof. Dr. Luis Cabedo Mas
Universitat Jaume I, Av/Vicent Sos Baynat s/n 12006 Castelló, Spain

Prof. Dr. Leonor Hernández López
Universitat Jaume I, Av/Vicente Sos Baynat s/n 12006 Castelló, Spain

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

Nowadays, the environmental challenge of reducing the climate impact requires new technological solutions in the energy sector. Nanotechnology, including nanofluids (colloidal suspensions with nanoparticles lower than 100nm in base fluids as water, oils, glycols, molten salts, etc.) can be an interesting alternative to achieve this challenge by making more efficient different applications, such as heat transfer and heat storage. This Special Issue o f *Nanomaterials* aims at gathering original works and reviews about the recent advances on linking fundamental research of nanofluids with their applications for heat transfer and storage.

Papers dealing with experimental characterization, theoretical modelling, or numerical simulations of nanomaterials and nanofluids (nanoparticles, nanoPCM, nanosalts, ionanofluids, etc.) with improvements for heat transfer or storage applications will be considered for publication in this Special Issue. See more information in

https://www.mdpi.com/si/55890

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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, 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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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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