

Special Issue

Colloids and Nanofluids for Energy Management

Message from the Guest Editors

Colloids have been known for centuries and find innumerable applications in everyday life, from the food industry, to medicine, filtering and purification systems, and so on. This Special Issue will attempt to explore recent advances in nanofluids, focusing on all aspects of their development: the design, from synthesis methods to new formulations; new potential applications and properties investigated; advances in understanding the behavior of nanoparticles and in modeling; and advancement in engineering and industrialization of nanofluids. This Special Issue also aims to investigate the advances on cutting-edge strategies to deal with issues still to be overcome in the nanofluids development. The intent is to give an overview of the progress of research, including different types of fluids, nanoparticles, colloids or emulsions, particularly focusing on energy aspects including heat exchange efficiency, thermal energy storage, lubrication, and in general on the energy efficiency increase of devices.

Guest Editors

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Deadline for manuscript submissions

closed (30 May 2021)



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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

Prof. Dr. Eugenia Valsami-Jones

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