



an Open Access Journal by MDPI

The Potential of Nano Additives in Lubricants and Heat Transfer Fluids

Guest Editors:

Prof. Dr. Josefa Fernández

Laboratorio de Propiedades Termofísicas y Tribológicas, Grupo Nafomat, Departamento de Física Aplicada, Facultad de Física, Universidade de Santiago de Compostela, 15782 Santiago de Compostela, Spain

Dr. Luis Lugo

Department of Applied Physics, University of Vigo, 36310 Vigo, Spain

Deadline for manuscript submissions:

closed (25 March 2021)

Message from the Guest Editors

Nano additive synthesis as well as nanodispersion preparation and the thermophysical, tribological, optical and rheological characterization of both nanomaterials as proposed new materials are necessary studies to suggest next-generation applications of nanomaterials with outstanding performances in industrial applications, renewable energies and automotive engines in particular.

This Special Issue is aimed at providing significant contributions on advances in dispersions including the manufacture and characterization of nanolubricants as well as nanofluids for heat transfer and storage of thermal energy focusing on potential industrial applications and renewable energies in particular. New studies about advances nanoadditives as coated nanoparticles, hybrid nanoparticles, two-dimensional and one-dimensional nano additives, are also welcomed. Synergies studies with other nanoadditives used in the current formulations are expected.



mdpi.com/si/27462

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science,
University of Birmingham,
Birmingham B15 2TT, UK

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.

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 - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://twitter.com/nano_mdpi)