





an Open Access Journal by MDPI

# **Nanofluids for Thermal Solar Energy**

Guest Editor:

#### **Dr. Javier Navas**

Physical Chemistry Department, University of Cádiz, E-11510 Puerto Real, Cádiz, Spain

Deadline for manuscript submissions:

closed (5 August 2021)

## Message from the Guest Editor

Dear Colleagues,

Nano-colloids, or nanofluids, are colloidal suspensions of nanomaterials in a fluid. The addition of nanomaterials can improve properties such as the thermal conductivity, isobaric specific heat, or heat transfer coefficient of the fluid. Nowadays, one of their most interesting applications is in solar energy systems. The presence of nanoparticles can lead to an improvement of the thermal features of typical heat transfer fluids (HTFs) used in all kinds of types of thermal solar energy technologies, and also can lead to an increase in the absorption of incident solar radiation, which improves the global efficiency of the collectors. We welcome the submission of potential topics include, but are not limited to:

- Nanofluids for thermal solar energy
- Nanofluids for low, medium and high temperature applications
- Design, preparation and characterization of nanofluids
- Simulation and modelling of nanofluids
- Nanofluids for thermal energy storage
- Design of nanomaterials for nanofluids
- Thermal, rheological and optical properties of nanofluids
- Nanofluids based on phase change materials
- Advanced nanomaterials for nanofluids

Dr. Javier Navas Guest Editor









CITESCORE 7.4

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, 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**