

Special Issue

Nanoparticles and Nanofluids for Energy Applications 2023

Message from the Guest Editors

Energy consumption worldwide is constantly growing, and with it, there is a pressing need to develop new materials that can tackle this demand in a sustainable way. We live in a technological world, and in this reality, nanotechnology has a major role. Indeed, the number of nanoparticle/nanodevice applications is ever-growing. The use of nanotechnology in the development of new and alternative methods for pharmaceutical, medicinal, optical engineering, biosensing, and energy applications, among others, has boosted research on new nanoparticles and nanofluids. In the energy area, nanoparticles can be found in, e.g., storage units, luminescent solar concentrators, smart windows, and heat transfer mechanisms. All of these can provide high input in society and in the construction of a sustainable energy future. These devices can potentially transform a building façade into an electricity power generator. As researchers, the possibility of creating a green, sustainable, future for generations to come is in our hands.

Guest Editors

Dr. Helena M. R. Gonçalves

REQUIMTE, Instituto Superior de Engenharia do Porto, 4200-072 Porto, Portugal

Dr. Marita A. Cardoso

REQUIMTE, Instituto Superior de Engenharia do Porto, 4200-072 Porto, Portugal

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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