

Special Issue

Novel Nanostructured Materials for Energy-Related Applications

Message from the Guest Editor

Applications in energy storage and conversion relies heavily on the discovery of novel materials. By exploiting materials at the nanoscale, tremendous advancements have been made that have grown many industries (e.g. semiconductor, vehicle electrification, photonics, etc.). Novel nanostructured materials are the centerpiece for emerging technologies. The synthesis and processing of nanostructured materials plays a key role in the adoption by such technologies as batteries, fuel cells, and supercapacitors. Moreover, the characterization of such materials becomes more critical, as our understanding of phenomena occurring at atomistic length scales relies heavily on novel characterization techniques equipped with a synchrotron source. Research in novel nanostructured materials for energy-related applications requires the dissemination of new and exciting research, and we therefore welcome contributions from many different fields. Topics of interest include, but are not limited to the following:

- Synthesis
- Batteries
- Supercapacitors
- Fuel Cells
- Electrocatalysis
- Water harvesting
- Electrodeposition
- New Materials
- Processing

Guest Editor

Dr. Jesse Ko
Applied Physics Laboratory, Johns Hopkins University, Laurel, MD, USA

Deadline for manuscript submissions

closed (31 October 2021)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



mdpi.com/si/56815

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 8.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

Message from the Editor-in-Chief

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

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), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)