Special Issue

Potential of Functional Nanomaterials for Energy Applications

Message from the Guest Editors

The development of clean and sustainable energy technologies is one of the most urgent scientific challenges of our time. In this context, functional nanomaterials have emerged as a key enabler in revolutionizing energy systems, from efficient harvesting of solar and thermal energy to high-performance energy storage and catalytic processes. Nanomaterials with the exeptional properties such aslarge surface area, tunable electronic structure and enhanced reactivity, enable significant improvements in the performance, durability, and scalability of energy devices. Their integration into batteries, fuel cells, supercapacitors, solar cells, and catalytic systems is helping to meet global energy demands while reducing environmental impact. This Special Issue aims to present and disseminate the latest research advances in the design, synthesis, characterization, and application of functional nanomaterials for sustainable energy technologies.

Guest Editors

Dr. Minh-Hai Tran

Department of Chemical and Materials Engineering, Concordia University, Montreal, QC, Canada

Dr. Sapanbir Thind

Department of Chemistry, University of Victoria, 3800 Finnerty Road, Victoria, BC, Canada

Deadline for manuscript submissions

1 January 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/246762

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)

MDPI