



an Open Access Journal by MDPI

Editorial Board Members' Collection Series: Synthesis and Applications of Nanomaterials for Renewable Energies

Guest Editors:

Prof. Dr. Efrat Lifshitz

Schulich Faculty of Chemistry,
Israel Institute of Technology,
Haifa 32000, Israel

Dr. David Marrero-López

Department of Applied Physics I,
University of Málaga, Málaga,
Spain

Deadline for manuscript
submissions:

closed (20 May 2024)

Message from the Guest Editors

Dear Colleagues,

The development of advanced functional materials is one of the current challenges for the efficient production and storage of renewable energy. Solar energy could be used to produce electrical energy or fuels, such as hydrogen and hydrocarbon from water and carbon dioxide, respectively. Hydrogen is also the key to energy transition and achieving *the decarbonization* goals.

This Special Issue is open to original research articles, as well as review papers, which help researchers worldwide to understand the latest trends and progress in nanomaterials for different applications, such as solar cell, hydrogen production and fuel cells, batteries and supercapacitors, photo-electrochemical water splitting, etc.

Prof. Dr. Efrat Lifshitz
Dr. David Marrero-López
Guest Editors



mdpi.com/si/147256

Special Issue



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, 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.

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](#), [CAPus / SciFinder](#), [Inspecc](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us

Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](#)