



New Advances in Ceramic and Polymeric Nanomaterials for Energy Storage Systems

Guest Editors:

Dr. Sílvia Soreto Teixeira

Dr. Susana Devesa

Dr. Luís Cadillon Costa

**Dr. Manuel Pedro Fernandes
Graça**

Deadline for manuscript
submissions:

4 June 2024

Message from the Guest Editors

Research into energy storage systems presents a huge contemporary challenge. In order to develop energy storage solutions and obtain good performances that promote sustainability, efficiency, managing risks and emission reduction, fundamental and applied science is required

Ceramic products play important roles in quite different energy storage systems, usually presenting high temperature stability and resistance to chemical external attacks. Also, polymer nanocomposites are promising materials for that purpose, being able to improve the safety and versatility of storage systems.

This Special Issue aims to include all the significant aspects of ceramics and polymer nanocomposites, for energy storage. One of the objectives of this Issue is, in addition to reporting the process of synthesis of the materials, to characterize them structurally, morphologically, electrically and magnetically in order to confirm their ability to be applied for a particular purpose.





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](#), [Inspec](#), 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](#)