Special Issue

Nanomaterial-Mediated Biomass Conversion and Biowaste Valorization

Message from the Guest Editors

The increasing global demand for sustainable and renewable resources has led to a growing interest in the utilization of biomass and biowaste for the production of high-value products. This Special Issue aims to provide a platform for researchers and scientists to showcase their cutting-edge research, advances, and insights in the field of biomass conversion and the valorization of biowaste using nanomaterials. Topics of interest include, but are not limited to:

- Novel nanocatalysts for biomass conversion;
- Nanomaterial-based processes for biowaste valorization;
- Nanotechnology-enabled biofuel production;
- Nanomaterials for biomass-derived chemical and material synthesis;
- The characterization and optimization of nanomaterials in biomass conversion processes;
- The environmental and sustainability aspects of biomass conversion and biowaste valorization;
- etc.

See more information at
https://www.mdpi.com/si/191199

Guest Editors

Dr. Jun Zhao

Department of Biology, Institute of Advanced Materials, Hong Kong Baptist University, Hong Kong, China

Dr. Antonio Jose Exposito

Department of Chemical Engineering, University of Bath, Bath BA2 7AY, UK

Deadline for manuscript submissions

closed (31 May 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/191199

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

mdpi.com/journal/nanomaterials

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)