Special Issue

Preparation and Application of Polymer Nanocomposites

Message from the Guest Editor

Polymer nanocomposites have found applications as membranes in batteries and fuel cells, in biomedicine, for drug delivery, or as scaffolds for tissue regeneration, and in electrical/optoelectronic devices such as solar cells. Smart, responsive materials have been developed and used as sensors, actuators, and low-voltage energy generators for wearables. This Special Issue is focused on the characterization of polymer nanocomposite films with special emphasis on their structure and interface properties, and their mechanical and electrical response. Research addressing the impact on the nanofiller/matrix interface of external conditions such as heat, electrical/magnetic, mechanical, or ultrasonic action is of particular interest. Contributions related to biocompatible, ecofriendly, and biodegradable polymer nanocomposites are welcome.

Guest Editor

Prof. Dr. Teresa Cuberes

Departamento de Mecánica Aplicada e Ingeniería de Proyectos, Escuela de Ingeniería Minera e Industrial de Almadén, Universidad de Castilla-La Mancha, Almadén, Ciudad Real, Spain

Deadline for manuscript submissions

closed (31 December 2021)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/42970

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

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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)

MDPI