Special Issue

Mechanics of Micro and Nano Structures and Materials

Message from the Guest Editors

This Special Issue will be a peer-reviewed forum for the publication of original papers dealing with the most important issues regarding the mechanics of micro and nano structures and materials and their application to the design of innovative materials and structures, as well as capturing scientific advancements in the design and development of sustainable polymer-fiber composites, mainly for building applications, through the use of additive manufacturing or 3D printing technology. Potential topics include but are not limited to the following: experimental and computational techniques in nanotechnology and nanoscience; nonlocal elasticity; nanoelectromechanical systems (NEMS) and the microelectromechanical systems (MEMS); bending; buckling; nonlinear free vibration; functionally graded (FG) sandwich nanobeams and nanoplates; strain and stress gradient models; concrete; rubber-like materials; nonlinear mechanics; additive manufacturing; polymer-fiber composites; sustainability.

Guest Editors

Dr. Rosa Penna

Prof. Dr. Luciano Feo

Prof. Dr. Francesco Fabbrocino

Deadline for manuscript submissions

closed (28 February 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/56290

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)