nanomaterials

IMPACT FACTOR 5.3

Indexed in: PubMed

CITESCORE 7.4

an Open Access Journal by MDPI

Modeling and Experimental Characterization of Nanocomposite Materials

Guest Editor:

Assoc. Prof. Homayoun Hadavinia
Director of Postgraduate Research Coordinator, School of Engineering and Environment, Kingston University London, Friars Avenue, London SW15 3DW, UK

Deadline for manuscript submissions:
closed (25 September 2019)

Message from the Guest Editor

Dear Colleagues,

The possibilities to enhance the desired properties of composites by additive nanoscale secondary reinforcement attracted a large amount of interest. Great progress has been made on many fronts, including manufacturing processes and scaling up; characterizing the interface between the additives and the matrix; functionalizing the nanoparticles to enhance the bonding with the matrix and better dispersion, characterizing the mechanical, thermal and electrical properties; and theoretical/computational analysis of nanocomposite.

The Guest Editor welcomes papers dedicated to experimental, computational and theoretical aspects dealing with many important state-of-the-art technologies and methodologies regarding the synthesis, fabrication, characterization, properties, design, applications, and both finite element analysis and molecular dynamic simulations of nanocomposite materials and structures. Full original papers covering novel topics, extending the frontiers of the science and technology of nanoreinforced composites are encouraged. Reviews covering topics of major interest will be also considered.

Assoc. Prof. Homayoun Hadavinia
Guest Editor

nanomaterials

IMPACT FACTOR 5.3 | Indexed in: PubMed | CITESCORE 7.4

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, CAPlus / 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