nanomaterials

IMPACT FACTOR 4.4

Indexed in: PubMed

CITESCORE 8.5

an Open Access Journal by MDPI

Immune Responses to Nanomaterials for Biomedical Applications

Guest Editor:

Dr. Giuseppe Bardi
Nanobiointeractions & Nanodiagnostics, Istituto Italiano di Tecnologia, Via Morego 30, 16163 Genova, Italy

Deadline for manuscript submissions:
closed (15 October 2020)

Message from the Guest Editor

Dear Colleagues,

Our interest is focused on biomedical applications of nanotechnologies to improve the therapeutics' performances, as well as diagnostics. Successful nanodevices for drug or gene delivery, imaging or synthesized with materials acting per se (e.g., nanozimes) require full biocompatibility. Recent literature has highlighted the importance of host immune responses to nanomaterials as a critical issue to be addressed in order to create safe-by-design nanotools.

The present Special Issue would like to overcome the "classical nanotoxicology" as limited to toxicity results on cell death mechanisms, rather providing information on the several interactions that the immune system has with nanomaterials developed to biomedical applications. Novel results on immune cell, tissue or different animal models' inflammatory responses to nanomaterials will be welcome, as well as critical review articles challenging the present knowledge and offering an expert platform to discussion.

Dr. Giuseppe Bardi
Guest Editor

nanomaterials

IMPACT FACTOR 4.4 | Indexed in: PubMed | CITESCORE 8.5

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 - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
𝕏@nano_mdpi