



From Measurements to Predictive Models: Recent Advancements in Nanosafety Research

Guest Editors:

Prof. Dr. Tae-Hyun Yoon

Prof. Dr. Eugenia Valsami-Jones

Prof. Dr. Dario Greco

Dr. Antreas Afantitis

Dr. Haribalan Perumalsamy

Dr. Zayakhuu Gerelkhuu

Deadline for manuscript
submissions:
closed (31 January 2022)

Message from the Guest Editors

Dear Colleagues,

Understanding the interactions of engineered nanomaterials with biological systems and the environment is becoming increasingly important due to the rapid growth of the nano-industry, such as biomedical applications of nanomaterials for therapeutics and diagnosis. In this Special Issue, we invite reviews, research articles and communications on recent advancements in nanosafety research. The potential topics for this Special Issue include but are not limited to:

- Advanced characterization methods for nanomaterials and nanoproducts;
- Novel assessment methods with single-cell resolution for probing the heterogeneities of nanoparticles interacting with complex biological systems;
- Advanced models developed with novel algorithms and/or high-dimensional datasets collected with high-content and high-throughput assay methods;
- Physicochemical characterization, toxicity assessment and predictive-model development for novel nanomaterials.

Prof. Dr. Tae-Hyun Yoon

Prof. Dr. Eugenia Valsami-Jones

Prof. Dr. Dario Greco

Dr. Antreas Afantitis

Dr. Haribalan Perumalsamy

Dr. Zayakhuu Gerelkhuu



mdpi.com/si/65679

Special Issue



nanomaterials

Indexed in:
PubMed

CITESCORE
7.4

IMPACT
FACTOR
5.3

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

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*)

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.

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
✉@nano_mdpi