

Special Issue

Engineered Nanomaterials Exposure and Risk Assessment: Occupational Health and Safety—Volume II

Message from the Guest Editor

Occupational safety assessment of engineered nanomaterials requires proper knowledge of the exposure scenarios, process emissions, and emitted particles biological responses. Currently, there is a great number of exposure measurement data available that is applicable for personal exposure level assessment for the specific scenario. However, process-specific emissions and exposure levels of nanomaterials are still rarely reported. Those are essential for process emission characterization, exposure model parameterization, performance testing and calibration, development of default exposure scenarios, and for better understanding of risk management measures. The majority of occupational exposure studies consider the formulation of pristine nanomaterial in a matrix because of the highest exposure potential. The titled Special Issue aims to cover all main steps in nanomaterial safety assessment as shown in the Scheme. This includes aerosol measurements, particle characterization, pollution mass flow analysis, exposure and dose assessment in biologically relevant metrics, and hazard assessment of released particles.

Guest Editor

Dr. Antti Joonas Koivisto

1. ARCHE Consulting, Liefkensstraat 35D, B-9032 Wondelgem, Belgium
2. Institute for Atmospheric and Earth System Research (INAR), University of Helsinki, PL 64, FI-00014 Helsinki, Finland
3. Air Pollution Management APM, Mattilanmäki 38, 33610 Tampere, Finland

Deadline for manuscript submissions

closed (10 November 2023)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/164719

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

[mdpi.com/journal/
nanomaterials](https://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](https://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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)