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

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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.

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