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Aerosol Exposure and Inhalation Toxicity from Emerging Sources

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Message from the Guest Editors

In today's fast-changing world, emission sources of airborne particles in the environment have evolved alongside emerging technologies or scenarios, such as nanomaterial applications and advanced manufacturing. Exposure to particulates can lead to serious adverse health effects for those that inhale them. It is critical to understand the chemical, physical, and biological aspects of particles from these new sources, as well as to assess respiratory deposition, oxidative stress, inflammation, and other cellular and systematic toxicity effects after inhalation. This Special Issue aims to attract articles of a high academic standard with an emphasis on emission characterization and/or toxicological studies of aerosols from the following emerging sources:

- Nanomaterial manufacturing and handling.
- Electronic cigarettes, hookah, and other non-combustion tobacco products.
- Processes that involve the emission of respirable crystalline silica.
- Consumer and commercial grade 3D printing, laser cutting, etc.
- Other types of advanced manufacturing, especially with metals.









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Message from the Editor-in-Chief

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