



Behavior and Transformations of Nanomaterials in Different Environments

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Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

Engineered nanomaterials (ENMs) undergo complex interactions and transformations at different points during their lifecycle. These interactions and transformations depend on the physicochemical nature of the ENMs as well as the environment where they are found or released into. These transformations determine ENMs fate, behavior, and properties over time. Therefore, the uniqueness of each ENM's scenario results in a great deal of complexity.

This Special Issue aims to encourage worldwide researchers to share their scientific and technological knowledge on environmentally relevant nanomaterial behavior and transformations. In this Special Issue, we invite investigators to contribute original research articles, as well as review articles that are related to behavior and transformations of nanomaterials in different environments. We are particularly interested in research that works toward understanding the longer-term effects of nanomaterial transformations both when released into the environment during their use or at the end of their use and also when incorporated in consumer products.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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