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Identification and Quantification of Nanomaterials

Guest Editor:

Dr. Hubert Rauscher
European Commission Joint Research Centre, Ispra, Italy

Deadline for manuscript submissions:
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Message from the Guest Editor

The identification and quantification of nanomaterials is currently a very active field of research. In view of the numerous ongoing regulatory activities addressing nanomaterials (e.g. amendments of nanospecific provisions in the REACH, Novel Food, Cosmetics and Medical Devices Regulations in Europe, rules and decisions on nanomaterials by US EPA and US FDA) manufacturers and regulators are in urgent need of scientific and technical progress to meet new regulatory requirements for nanomaterials. Identification and quantification of nanomaterials is a key requirement in this context and useful for innovators already in the material development phase to predict classification as nanomaterial (or the contrary) and to anticipate regulatory requirements for the final product. Enforcement laboratories need to be able to assess not only raw materials at the product ingredient level, but they must be able to analyse the final products on the market to identify and quantify the presence of a nanomaterial. Currently, there is an emerging issue with nanoplastics, which poses particular analytical and conceptual challenges.

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Editor-in-Chief

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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.

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