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Analysis Methods of Magnetic Nanoparticles

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Message from the Guest Editors

Dear Colleagues,

Magnetic nanoparticles (MNPs) find a wide range of applications in the areas of technics and biomedicine. Each application requires a specific MNP system with defined structural, chemical and magnetic properties. Thus, for optimized and safe application, comprehensive and reliable analysis methods are required. This Special Issue of Nanomaterials, "Analysis Methods of Magnetic Nanoparticles", aims at collecting a compilation of articles that prominently demonstrate the continuous efforts in developing and standardizing analysis methods for the characterization of magnetic nanoparticles. Besides the description of the individual analysis methods and related models for the extraction of particle parameters, also the correlation between particle parameters determined by different methods will be focused on. The topics cover a wide range of research fields in the forms of reviews, communications, and academic articles.

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Prof. Christer Johansson
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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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