Special Issue

Nanomaterials as Contrast Agents for MRI

Message from the Guest Editor

In medical imaging, the continuous quest to improve diagnostic performance and optimize treatment strategies is driving enormous progress and changes in magnetic resonance imaging (MRI). In this respect, the use of magnetic contrast agents (CA) has allowed an increase in the sensitivity and specificity of MRI since the beginning. The recent developments in materials science and nanotechnology and the peculiar properties of nanomaterials have been encouraging the use of magnetic nanostructures as promising alternatives to current commercial contrast agents. The Special Issue seeks to focus on novelties in the synthesis procedures, characterization of magnetic nanomaterials and theoretical interpretations of their magnetic properties, all these being crucial building blocks for achieving valuable nanomaterials for MRI. Therefore, I cordially invite front-line researchers to submit original articles and reviews in order to present the state of the art in the abovementioned research field.

Guest Editor

Dr. Paolo Arosio

Physics Department, Università degli Studi di Milano and INSTM Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali - Milano Unit, Via Celoria 16, 20133 Milan, Italy

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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