

Special Issue

Magnetic Nanoparticles: From Synthesis and Modification to Biomedical Applications

Message from the Guest Editor

We invite researchers to contribute to this Special Issue focused on 'Magnetic Nanoparticles: From Synthesis and Modification to Biomedical Applications'. This Special Issue seeks manuscripts that explore the synthesis, modification, and advanced characterization of monodispersed magnetic nanoparticles with high biological compatibility. Emphasis will be placed on studies utilizing cutting-edge X-ray techniques, such as XANES, EXAFS, and SAXS, to provide detailed insights into the structure and interactions of these nanoparticles with biologically relevant molecules. Method development research involving the application of magnetic nanoparticles is especially welcome. Research on their biomedical applications—ranging from drug delivery to imaging and therapy—is of particular interest, with theranostic applications being especially encouraged. Original contributions that advance our understanding of magnetic nanoparticle design and characterization while promoting their safe and effective integration into biomedical fields are invited.

Guest Editor

Dr. Ahmet Kertmen

Faculty of Physics, Adam Mickiewicz University, Uniwersytetu
Poznańskiego 10, 61-614 Poznań, Poland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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