



## Iron Oxide Nanomaterials

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### Message from the Guest Editor

Iron oxides are widely present in geological and planetary settings. They are also encountered in the biological world, often in the form of nanoparticles formed by microorganisms. Of course, they can also be prepared in the lab to be used in industrial applications or tested for biotechnological ones. In this Special Issue, it is proposed to address the last development in the understanding of the formation and transformation mechanisms of iron oxides, in particular those where the nanoscale plays a major role. Syntheses, characterizations, and applications of iron oxide nanomaterials will also be presented. Finally, in addition to experimental reports, simulation studies will complete the picture, to obtain an integrated view on the subject.

For further reading, please follow the link to the Special Issue Website at: <http://www.mdpi.com/si/67348>

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*Guest Editor*





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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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