



Magnetic Nanoparticles: Novel Synthesis Methods and Applications

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Message from the Guest Editor

Dear Colleagues,

Magnetic nanoparticles have attracted tremendous attention owing to their unique chemical and physical properties and because of their potential applications in various fields, such as drug delivery, magnetic resonance imaging, biomolecular sensors, bioseparations, magnetothermal therapy, and catalysis. Synthetic methods such as the sol-gel technique, layer pyrolysis, hydrothermal technique, microwave irradiation, microemulsion co-precipitation, sonolysis, gas phase deposition, electron beam lithography, and bacterial synthesis have been widely used in the preparation of magnetic nanoparticles. Recently, various green biosynthetic methods have been applied in the preparation of magnetic nanoparticles using different plant extracts and biomolecules. This Special Issue of *Applied Sciences* aims to cover the recent advances in developing synthetic methods for the preparation of magnetic nanomaterials and their application.

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Guest Editor





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Message from the Editor-in-Chief

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