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## Development of Magneto Nanoparticles for Biomedical and Environmental Applications

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Deadline for manuscript  
submissions:

**closed (30 June 2020)**



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### Message from the Guest Editors

Dear Colleague,

The potential of magneto nanoparticles for biomedical and environmental applications has been recognized, owing to their physicochemical and magnetic properties. Nanoparticles with superparamagnetic behavior are preferred for these purposes, as they exhibit a strong magnetization only when an external magnetic field is applied.

In biomedical applications, magnetic nanoparticles have been widely investigated for drug delivery, hyperthermia, and biological imaging as MRI contrast agents. Considering environmental applications, ferrites have shown potential in contaminant removal, remediation, and water treatment, as well as in the photodegradation of dyes and photoinduced water splitting.

This Special Issue is devoted to the development of magnetic nanoparticles and their biomedical or environmental applications, including synthesis methods, characterization techniques, and structural and magnetic properties. The development and applications of magnetic nanoparticle-based systems, such as magnetic microemulsions, magnetic liposomes, magnetogels, and semiconductor/metallic nanoscale heterojunctions, are also welcome.



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## Message from the Editor-in-Chief

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