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Magnetic Nanoparticles for Biomedical Applications

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Message from the Guest Editors

Magnetic nanoparticles, that we can define as particles responsive to external magnetic fields, are among the most used materials in biomedicine. In nanomedicine, their use is expanding from biosensing to treatment and diagnosis, involving many aspects of the clinical routine. This Special Issue is devoted to any biomedical applications where the use of magnetic nanoparticles is key, as well as to their synthesis, characterisation, and bioconjugation. Potential topics include but are not limited to the following:

- Magnetic nanoparticles as MRI probes (T1 and/or T2)
- Magnetic nanoparticles as in vitro sensors
- Hyperthermia
- Magnetic particle imaging
- Magnetic nanoparticles in nuclear imaging techniques
- New synthetic methods
- Bioconjugation of magnetic nanoparticles for bioimaging
- Protein corona and magnetic nanoparticles

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers fourteen comprehensive topics: Biomaterials; Energy Materials; Composites; Structure Analysis; Porous Materials; Manufacturing Processes; Advanced Nanomaterials; Smart Materials; Thin Films; Catalytic Materials; Carbon Materials; Materials Chemistry; Materials Physics; Optics and Photonics; Corrosion; Building Materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles. *Materials* provides an unique opportunity to contribute high quality articles and to take advantage of its large readership.

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Rapid publication: manuscripts are peer-reviewed; a first decision is provided to authors approximately 14.2 days after submission; acceptance to publication in 5 days (median values for papers published in *materials* in the second half of 2018).

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