

Special Issue

Magnetic Nanoparticles: Novel Synthesis Methods and Applications

Message from the Guest Editor

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 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.

Guest Editor

Prof. Dr. Raed Abu-Reziq

Institute of Chemistry, Casali Center of Applied Chemistry, The Hebrew University of Jerusalem, Edmond J. Safra Campus, Givat Ram, Jerusalem 91904, Israel

Deadline for manuscript submissions

closed (30 June 2020)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/31629

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

appls.c





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)