Special Issue

Fine Tuning of Magnetic Iron Oxide Nanostructures

Message from the Guest Editor

Magnetic iron-oxide-based nanoparticles, thin films and nanowires are of special interest in the scientific community due to their versatility. They are fundamental components in so many fields ranging from permanent magnet market, spintronics, microwave technology and biomedical applications to water decontamination. Precise tuning of their remarkable properties can be performed by preparation and processing conditions, dopants, intralayers, coatings, strain, etc. Slight variations in size, morphology, geometry, etc., can influence considerably the end results. I would like to invite you to contribute a research paper or review to the Special Issue “Fine Tuning of Magnetic Iron Oxide Nanostructures”. This Special Issue is focused on the latest insights into adjusting specific functionalities in order to resolve some of the current necessities of modern magnetic materials. The following research fields are highlighted:

- Nanomagnetism;
- Functional materials;
- Smart materials and composites;
- Biomaterials;
- Ferrites;
- Interfacial coupling;
- Annealing in magnetic fields;
- Dopants;
- Size effects.

We look forward to your valuable contributions to this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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