Special Issue

Composite Materials Based on Polymeric Fibers Doped with Magnetic Nanoparticles: Synthesis, Properties and Applications

Message from the Guest Editor

This Special Issue will highlight the progress made in the field of composite materials based on polymeric fibers and magnetic nano-microparticles, to underline the main issues, which need to be addressed, and to provide solutions for the further development of their physical properties as required for various applications.

Topics to be covered by this Special Issue include, but are not limited to, the following:

- New methods for the preparation of composite nanomaterials by doping with magnetic, dielectric nanoparticles, or combinations of them;
- New experimental methods for studying physical properties of composite nanomaterials;
- Investigating the nano-microscale structural properties of composite nanomaterials, as well as the physical mechanisms responsible for their bulk properties;
- Development of new technologies for testing composite materials based on polymeric fibers and magnetic nano-microparticles;
- Future research directions related to the usage of composite materials;

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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