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Carbon-Based Nanocomposites

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

Carbon nanomaterials are by far the fastest developing technology in materials science and engineering. These improvements have suggested expanding the domain of applications of these novel nanomaterials by adding them as fillers to polymer matrices, forming what is commonly referred to as carbon nanocomposites. These composites exhibit unique combinations of properties and multifunctionalities not attainable with traditional microscale carbon fiber composites.

This Special Issue aims at harvesting some of these new and novel trends in the field of nanocomposites; potential topics include but are not limited to:

- Novel carbon nanomaterials synthesis;
- Carbon nanocomposites fabrication for structural and transport (thermal or electrical) applications;
- Hybrid and multiscale carbon nanocomposites;
- Additive manufacturing of carbon nanocomposites;
- Original approaches for characterization of carbon nanocomposites;
- Other studies and novel applications of composites associated with carbon nanospecies.



mdpi.com/si/40998

Prof. Marwan Al-Haik
Guest Editor

Special Issue



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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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