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Conducting Polymer Nanocomposites Based on Carbon Nanomaterials (CNMs)

Guest Editor:

Dr. Orietta Monticelli
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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editor

Dear Colleagues,

Carbon nanomaterials (CNMs), such as single- and multiwalled carbon nanotubes, carbon nanofibers, graphene, and graphene oxide, have found a great interest in the fields of nanocomposite materials because of their unique properties. In particular, they are characterized by a large surface area, good environmental stability, and excellent electrical, thermal, chemical, and mechanical properties. Clearly, the incorporation of CNMs in polymer matrices is a very attractive approach to merge the mechanical and processability features of the polymer with the conductive properties of the nanofiller. These nanocomposites open up new opportunities in various fields ranging from sensors, electrochemical capacitors, solar cells, transistors, to molecular electronic devices...

For further reading, please follow the link to the Special Issue website at:
https://www.mdpi.com/si/32610

Dr. Orietta Monticelli
Guest Editor

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Editor-in-Chief

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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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