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Mechanical and Electrical Properties of Carbon Nanomaterials/Polymer Composites

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

For almost 30 years now, graphene and carbon nanotubes (CNT) have attracted great attention in the polymer composites field, due to their high strength and stiffness, extraordinary electrical and thermal conductivities. The combination of these superb properties in a lightweight polymer may lead to multi-functional materials that are applicable in many industries, from transportation to recreation and even electrical appliances and communication-related applications.

However, research in this field is not yet finished. With new fabrication methods such as additive manufacturing, and new approaches to old but persisting problems such as dispersion, alignment, and scalability, the full potential of nanocarbon polymer composites is yet to be realized.

This Special Issue of Nanomaterials will attempt to cover the most recent advances in the mechanical and electrical properties of carbon nanomaterials/polymer composites, concerning not only the fabrication and characterization responsible for these properties, but also reports of their applications in functional and smart working devices, in both traditional and emerging fields.

Dr. Noa Lachman-Senesh
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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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