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Conductive Nanocomposites and Their 3D Printing

Guest Editor:

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Message from the Guest Editor

Conductive nanocomposites (CNCs) have shown promising electrical properties which are useful for various applications, such as in sensors, electronics, electromagnetic interference (EMI) shielding, and lightning strike protection in airplanes. Conventional methods used for forming CNCs (e.g., solvent-casting, compression molding, or injection molding) usually require the utilization of molds, while additive manufacture (AM) or 3D printing (3DP) methods build forms from a digitally designed 3D model without mold fabrication. To date, different types of 3D printing methods, such as fused deposition modeling (FDM), selective laser sintering (SLS), stereolithography (SLA), and solvent-assisted 3DP have been developed.

The titled Special Issue aims to cover current research studies in the field of conductive nanocomposites which are useful for additive manufacturing. Advanced composite fabrication approaches with characterizations showing their potential in the field of 3D printing (e.g., rheological behavior) and innovative 3D printing methods and materials are very welcome.

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Special Issue

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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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