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Nanomaterials for Flexible and Printed Electronics

Guest Editor:

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Message from the Guest Editor

Nanomaterials for flexible and printed electronics endow electronic devices with novel flexibility, foldability, high efficiency, and scalability, overcoming the restrictions of silicon-based electronics and greatly expanding the range of applications in various fields, e.g., in flexible displays, electronic textiles, energy storage devices, sensory skins, etc. Consequently, flexible and printed electronics have attracted widespread attention from both academic and industrial communities, and have witnessed remarkable breakthroughs in terms of material development, device fabrication, packaging, and integration.

The aim of this Special Issue entitled “Nanomaterials for Flexible and Printed Electronics” is to provide a forum for researchers and practitioners to present and review the latest advances regarding the development, challenges, and future perspectives of multiscale manufacturing toward nanomaterials for flexible and printed electronics, with new materials, processes, printing technologies, and applications.

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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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