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Advanced Nanomaterials for Flexible and Stretchable Devices

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Deadline for manuscript submissions:
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Message from the Guest Editors

Over the past few decades, there has been growing interest in flexible and stretchable electronic devices due to their potential applications in smart devices, mobile displays, and wearable healthcare systems. Nanomaterials are key building blocks for flexible and stretchable devices due to their superior material properties (e.g., mechanical, chemical, electrical, optoelectronic) compared with their bulk counterparts. By integrating nanomaterials with flexible and stretchable substrates, deformable electrodes and circuits, novel processing methods, etc., we can evolve devices with single functionality to multi-functional integrated systems. The application of these nanomaterials in flexible/stretchable devices is currently an active research area in physical and chemical sensors, soft actuators, wearable electronics and energy devices.

This Special Issue is intended to publish original research articles and review articles covering a broad range of subjects, from nanomaterial preparation and modification, nanostructured modeling and design, to synthetic nanomaterial-based flexible and stretchable devices.

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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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