Special Issue

Nanomaterials for Stretchable and Wearable Devices

Message from the Guest Editor

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. The aim of this Special Issue is to report important advances and promising research trends on the developments of nanomaterials for flexible and stretchable electronics.
Research areas may include (but are not limited to) the following: Synthesis and characterization of nanomaterials.
Functionalization and modification of nanomaterials and nanocomposites.
Design and construction of novel structures for low-dimensional nanomaterials.
Novel nanomaterial processing technologies, including solution-processing, 2D/3D printing, and microfabrication techniques.
New applications of nanomaterial-based flexible and stretchable devices, including electronics and optoelectronic applications, energy storage and generation, sensors, and biomedical monitoring.
Other applications related to nanomaterial-based devices.
Post-treatment to enhance properties and stability of flexible devices.

Guest Editor

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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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