Special Issue

Nanofabrication of Sensitive Materials and Research on Flexible Devices

Message from the Guest Editors

Flexible electronics have attracted great interest in academia and industries due to their potential applications in an enormous number of fields, such as artificial skins, humanoid robots, intelligent equipment, and other areas. They possess the advantages of good flexibility, thinness, and light weight, which enable flexible devices to maintain functionality when deformed, rolled, or even stretched, making the next generation of electronic devices wearable, smart, and multifunctional. It is crucial to modify the morphology, size, composition, and interfaces of sensitive materials using nanofabrication technology to control their properties and allow their applications in various fields such as tactile sensing, energy harvesting and storage, and optoelectronics. Therefore, flexible, high-resolution, and large-area fabrication technology must be developed for the fabrication of multi-functional structures, and their performance must be studied in mechanics, electricity, photology, or thermology.

Keywords:
- nanofabrication
- sensitive materials
- flexible electronics
- flexible sensors
- soft robotics
- wearable devices
- nanoimprinting
- printing technology

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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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