Special Issue

Review Collection in Nanoelectronics, Nanosensors and Devices

Message from the Guest Editor

Nanomaterials are currently widely investigated in research, both for fundamental studies and the development of novel devices. The capability to control size and shape on a nanometer scale could allow electronic properties to be strongly modulated, thus obtaining chemical and physical properties different from the bulk of existing material counterparts. These properties can be used to develop novel nanodevices in fields such as nanoelectronics and nanosensors. This Special Issue aims to collect high-quality review papers on state-of-the-art perspectives, including research related to the realization and characterization of nanomaterials and their possible applications in nanoelectronics and nanodevices. Possible topics for consideration include but are not limited to the fields of electronics, sensors, actuators, soft robotics, wearable electronics, flexible/stretchable electronics, energy generation, storage devices, displays, and shape-memory materials utilizing the concept of nanomaterials and nano-sized devices. Further possible topics include state-of-the-art theoretical methods for modelling material properties and the development of innovative characterization techniques

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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