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Characterization and Applications of Nanomaterials in Sensors and Actuators

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Sensors and actuators are extensively applied in cutting-edge devices. However, it is still challenging to maximize the performance of nanomaterials or combine distinctive nanomaterials (0-dimensional, 1-dimensional, 2-dimensional) with bulk materials while retaining their intrinsic characteristics and achieving the expected synergistic effect. Therefore, it is still necessary to explore novel nanomaterials exhibiting intriguing physical, chemical, and electrical characteristics.

This Special Issue welcomes contributions from researchers worldwide on topics including but not limited to:

The synthesis of novel nanomaterials with special characteristics;

The advanced characterization and testing of nanomaterials and nanodevices;

The design and fabrication of nanomaterial-integrated material systems for sensor and actuator applications; etc.

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Dr. Lin Jing
Guest Editor



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Special Issue



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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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