

Special Issue

Self-Powered Flexible Sensors Based on Triboelectric Nanogenerators

Message from the Guest Editor

This Special Issue aims to provide an overview of the design, fabrication, and optimization of flexible sensors that can be integrated into wearable devices, smart textiles, and etc. These self-powered sensors are poised to revolutionize fields such as healthcare monitoring, environmental sensing, and human-machine interfaces by offering continuous, real-time data acquisition without the need for batteries or wired power supplies. We seek contributions encompassing, but not limited to, advancements in flexible sensor fabrication techniques based on triboelectric nanogenerators, novel materials for flexible sensing applications, innovative approaches to energy harvesting and storage in flexible sensors. Please see more details at the following link: <https://www.mdpi.com/si/206820>

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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