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Flexible Sensors Based on Nanomaterials

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Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editors

With the applications of nanomaterials in different dimensions, such as nanoparticles, nanowires, and nanosheets, flexible sensors have experienced vigorous development, reshaping people's understanding of the form and function of electronic sensors and systems. These sensors leverage the high specific surface area, high sensitivity, and tunable electronic properties of nanomaterials to achieve the highly sensitive and selective detection of various physical (e.g., pressure, temperature, humidity) and chemical (e.g., gases, pH) stimuli.

This Special Issue will present comprehensive research outlining progress on the application of nanomaterials or micro/nanostructures to improve the performance of flexible sensors. This includes the utilization of nanomaterials or micro/nanostructures to improve the performance of sensors, the construction of new flexible sensing interfaces and sensor structures, and the diversified applications of flexible sensors. We invite authors to contribute original research articles and review articles covering the current progress in flexible sensors based on nanomaterials.



mdpi.com/si/202372

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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