Special Issue

Materials and Devices for Flexible Electronics in Sensor Applications

Message from the Guest Editor

Flexible sensors have attracted increasing attention in the last decade. Compared to conventional rigid sensors, flexible electronics can easily conform to complex curved interfaces due to their exceptional flexibility, significantly expanding their range of applications. They have already demonstrated great potential in various fields, including health monitoring, wearable devices, and tactile sensing. However, despite these significant developments, integrating different advantageous properties—such as maintaining great flexibility while ensuring strength—remains challenging. Developing multifunctional, all-weather sensors that avoid signal interference also presents difficulties. To improve sensitivity and performance, new materials such as ionogels have been applied to fabricate flexible sensors. Additionally, incorporating micro-structured designs has proven to be a feasible way to enhance their capabilities. We invite submissions on advancements in materials, design, and fabrication for flexible sensors.

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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