



Advances in Flexible Electronics toward Wearable Sensing

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Message from the Guest Editor

Wearable sensing has a strong role to play in digitizing healthcare and connecting home and hospital care from the early stages of prevention through to disease management and aftercare, including rehabilitation. Furthermore, such technologies may also monitor the wearer's environment and monitor pollution or other hazards in the surroundings.

Flexible electronics enable the design of wearable sensors that truly conform to the body and may take the form of epidermal patches or smart textiles. This is essential to optimize signal acquisition and ensures reliable sampling methods in the case of chemical sensing.

To support sensing elements, power requirements need to be considered and also integrated in a flexible form, necessitating flexible batteries and energy harvesting methods. Data management is also required for the sensed information and may require the integration of flexible antennae for wireless communications.

The scope includes new materials and manufacturing methods, sensors, actuators, haptics, data communication, power supply, energy harvesting and storage, integration and interconnections, microfluidics, biocompatibility, and sustainable design.





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Message from the Editor-in-Chief

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