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Smart Textiles Technologies and Wearable Sensors

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Message from the Guest Editor

This Special Issue is motivated by the observed growing interest in the design, fabrication and application of smart textiles in many fields. Textiles traditionally perform social and protective functions, but the addition of wearable electronics provides the means to produce a new generation of smart textiles. Over the years, many features have been explored toward the functionality of smart textiles. Energy harvesting/storage, force/pressure measurement, porosity or color variation and sensors (movement, temperature, chemicals) are some of these functionalities. To build smart textiles on an industrial scale, the methods of manufacturing and material selection are two important requirements. Such affordable smart textiles could fulfil diverse applications, ranging from work wear in specific industries to the almost infinite scenarios of personal use. However, performance, scalability and cost problems have restricted the deployment of currently available smart textiles. The approach of new energy materials and novel fabrication methods are essential to develop smart textiles.



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Special Issue



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Message from the Editor-in-Chief

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