

Special Issue

Application of Nanoscale Smart Textiles in Wearable Sensors

Message from the Guest Editors

With rapid advancements in modern society, integrating textiles with sensing and therapeutic capabilities will provide a sustainable, environmentally friendly, and powerful approach in the way of constructing Internet of Things and 5G. Smart textiles have been driven by the fabrication of various miniaturized platform technologies and have led to the construction of autonomous, and interconnected functional textiles. Therefore, high-performance smart textiles could provide medical benefits comprising personalized physiological monitoring, diagnostic, disease prevention, therapeutic and post-care rehabilitation. This Special Issue on the “Application of Nanoscale Smart Textiles in Wearable Sensors” aims to collect recent advances in smart textiles and their novel application in different fields of interest. Potential topics of interest include (but are not limited to) the following five categories:

- Smart textiles for electricity generation.
- Smart textiles for wearable biosensors and bioelectronics.
- Smart textiles for personalized healthcare.
- Smart textiles for environmental monitoring.
- Smart textiles for energy conversion and storage.

Guest Editors

Prof. Dr. Yuanjie Su

Prof. Dr. Zong-Hong Lin

Prof. Dr. Ming Xu

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of
Birmingham, Birmingham B15 2TT, UK

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