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Smart Textiles for Energy Harvesting, Energy Conversion, Energy Storage and Multi-Mode Sensing

Guest Editors:

Dr. Kai Dong
Beijiing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, Beijing 101400, China

Prof. Dr. Wei Fan
School of Textile Science and Engineering, Xi'an Polytechnic University, Xi'an 710048, China

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Message from the Guest Editors

Smart or electronic textiles that deliver electronic functionalities to the human body can collect, process, store, transmit, and display information in response to various environmental stimuli. Seamless integration of traditional textiles with advanced energy harvesting, energy conversion, energy storage, and multimode sensing technologies will provide versatile and wearable energy and sensing routes for distributed human-centered on-body electronics in the era of the Internet of Things and artificial intelligence. Smart textiles will attract considerable research interest and enrich a wide range of application areas ranging from wearable power sources, multifunctional sensors, and personized healthcare to humanoid robotics and human–machine interfaces.
This Special Issue focuses on fiber or fabric-based energy harvesting, energy conversion, energy storage, and multimode sensing devices, aiming to push forward the developments of these research directions from both fundamental fiber/textile science and related practical engineering issues.

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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