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

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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 personalized 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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Message from the Editor-in-Chief

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