Special Issue

Design, Preparation, and Application of Functional Textile Fiber Materials in Intelligent Wearables

Message from the Guest Editors

With the advance towards the fourth industrial revolution, a wave of emerging industries and advanced multidisciplinary fields has broken out, including big data, human-machine interfaces, soft robotics, the Internet of Things (IoTs), and artificial intelligence (AI). Among them, there is a significant research target to design a flexible and intelligent wearable system through the utilization of textile fiber characteristics, such as softness, flexibility, lightness, breathability, and comfort. This Special Issue is expected to provide novel insights into functional textile fiber-based intelligent wearable systems, such as flexible/wearable fiber-based smart textiles, advanced energy, biomedical technologies, human-machine interfaces, and novel smart devices. It is conceivable that this Special Issue will promote the integration and rapid development of these highly interdisciplinary fields, ranging from basic science to device integration, industrial applications, and beyond. This SI aims to collect original research and review articles highlighting the synthesis, modification, design, properties, and applications in various areas related to flexible and intelligent textiles.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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