

Special Issue

Sustainable and Intelligent Wearable Technologies: Design, Processes, and Applications

Message from the Guest Editors

Wearable technology is one of the fastest growing fields, perfectly aligning with emerging trends in artificial intelligence, the metaverse, the Internet of Things, assistive robotics, healthcare monitoring, advanced materials, and smart fashion and textiles. Although considerable progress has been made in this area, there are still major challenges in achieving more multifunctionality, intelligence, comfort, safety, and sustainability. Topics include, but are not limited to, the following:

- Design and synthesis of novel polymers for fibers;
- Multifunctional fibers and composites;
- Nanotechnologies and nanofibers;
- Sustainable and eco-friendly fibers;
- Green and advanced manufacturing of fiber and textiles;
- Recycling and utilization of textile waste;
- Fibers for environmental, energy, and healthcare applications;
- Fiber-based sensors, actuators, and displays;
- Design, fabrication, and application of smart textiles;
- Intelligent wearable system integration;
- Artificial intelligence applications in fashion and textiles.

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