

Special Issue

Wearable Piezoelectric Sensors for Biomedical Applications

Message from the Guest Editors

This Special Issue is titled and focuses on “Wearable Piezoelectric Sensors for Biomedical Applications”, highlighting cutting-edge advancements in self-powered, flexible, and highly sensitive sensing technologies. Piezoelectric sensors have revolutionized wearable healthcare by enabling real-time monitoring of physiological signals such as heart rate, respiration, muscle activity, and body motion. Their ability to convert mechanical energy into electrical signals makes them ideal for continuous health monitoring without the need for external power sources. This Special Issue explores recent developments in materials, fabrication techniques, signal processing, and system integration for wearable piezoelectric sensors. Topics include novel piezoelectric materials, flexible and biocompatible designs, energy-harvesting capabilities, and their applications in disease diagnosis, rehabilitation, and personalized medicine. By bringing together experts from academia and industry, this Special Issue aims to provide insights into current challenges, potential solutions, and future trends in wearable piezoelectric biomedical sensors.

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