# **Special Issue**

## Smart Wearable Health Monitoring Systems: Materials, Sensors, Nanogenerators and Self-Powered Applications

## Message from the Guest Editors

Recent insights have resulted in a rapid development of various wearable devices monitoring different healthcare physiological indexes and biomarkers that can be found either in body fluids or in skin odor and breath. Wearable devices are potential game-changers and can empower the individual and the healthcare system to achieve better personalized healthcare outcomes. Along with the development of wearable sensors for health applications, the demand for sustainable and independent operation, lightweight and flexibility have increased significantly. Fulfilling this demand shall involve several parameters but most important is the replacement of the bulky and rigid batteries by alternative thin, flexible and/or stretchable powers sources. The focus of this Special Issue is on reporting recent advancements in smart wearable health monitoring systems. Both original research articles and review articles are welcome. Preferred subtopics include but are not limited to:

- smart materials
- wearable sensors
- chemical/bio-sensors
- volatile organic compounds detection
- health monitoring devices
- nanogenerators
- self-powered systems

### **Guest Editors**

- Dr. Youbin Zheng
- Dr. Wanfeng Xie
- Dr. Miaomiao Yuan
- Dr. Li Cheng
- Dr. Xiangyi Zhu

Deadline for manuscript submissions

closed (25 May 2025)



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## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological

developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

### Editor-in-Chief

### Prof. Dr. Vittorio M. N. Passaro

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