

## Special Issue

# Microfabrication of Flexible and Stretchable Bioelectronic Devices: Materials, Structures, and Applications

### Message from the Guest Editors

The growing application of flexible and stretchable bioelectronic devices is driving a paradigm shift in next-generation personalized healthcare, enabling seamless integration with soft biological tissues for continuous monitoring, stimulation, and therapeutic intervention. Recent advances in microfabrication technology have unlocked unprecedented capabilities in micro/nano-structured functional materials, geometric design, multimodal biosensing and actuators, and the system-level integration of flexible bioelectronic devices. This Special Issue will highlight recent advances in the microfabrication technology used in flexible and stretchable bioelectronic devices designed for seamless integration with diverse biological interfaces, including the epidermis, neural tissues, internal organs, and vascular systems. We invite submissions focusing on innovative functional materials, fabrication techniques, device architectures, and integration strategies that enable high-performance sensing, stimulation, and therapeutic functions. Interdisciplinary research bridging micro/nanotechnology, materials science, biomedical engineering, and soft robotics will be prioritized.

### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



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