

Special Issue

Advanced BioMEMS and Their Applications

Message from the Guest Editor

Biomedical or Biological Micro–Electro–Mechanical Systems (BioMEMS) have increasingly pervaded various fields, prominently in diagnostics, analytics, therapeutics, and tissue engineering. Originally adapted from the integrated circuit industry, the fabrication techniques for MEMS have evolved significantly for bioMEMS applications. This evolution reflects a deepening understanding of microfluidic dynamics and the surface properties of materials. While bioMEMS might lack traditional electrical and mechanical components, they encompass a broader scope of integrating diverse functionalities on a single micro- or nano-scale chip. BioMEMS are often synonymous with Lab-on-a-Chip (LoC) and micro total analysis systems (μ TAS). This Special Issue, titled “Advanced BioMEMS and Their Applications”, aims to provide a timely and extensive overview of cutting-edge techniques currently under development in global research labs, with a focus on—but not limited to—diagnostics, analytics, therapeutics, and tissue engineering. We welcome submissions of research papers, short communications, and review articles.

Guest Editor

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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.

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