



Micromachines for Bio-Electronic Integrations

Guest Editor:

Dr. Huan-Hsuan Hsu

Department of Biomedical
Engineering, Tufts University,
Medford, MA 02155, USA

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Message from the Guest Editor

Dear Colleagues,

Bioelectronics that can interrogate and manipulate biologically significant functions will enable extensive downstream applications in sensing, energy, and healthcare. However, their performance to date is still limited by inherent structural and functional mismatches at the bioelectronic interfaces. Recent advances in micromachining create substantial opportunities to overcome these mismatches by engineering the physiochemical properties of electronics. In particular, both nano- and soft electronics demonstrate promising improvement for bio-integration through the reduction of device dimensions and/or substrate stiffness, enabling a more biocompatible design with intimate and chronically stable biocontact for implantable/wearable applications. Continual development in this field will ultimately allow seamless integration of the bio-abio systems in bioelectronics and achieve precise and programmable communications with the biological systems.





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Editor-in-Chief

Prof. Dr. Ai-Qun Liu

1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

Message from the Editor-in-Chief

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Micromachines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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