



an Open Access Journal by MDPI

# Physiological and Electrochemical Sensors for Biomedical Applications

Guest Editors:

### Prof. Dr. Ning Xue

Lingang Laboratory, Shanghai 200031, China

#### Dr. Chunxiu Liu

Institute of Electronics, Chinese Academy of Sciences, Beijing 100190, China

#### Prof. Dr. Jeong-Bong Lee

Electrical and Computer Engineering, Baylor University, Waco, TX 76798-7356, USA

Deadline for manuscript submissions: closed (20 June 2019)



**Message from the Guest Editors** 

Dear Colleagues,

For the past few decades, there have been great progress and electrochemical sensors in physiological for biomedical applications. Many biomedical devices such as deep brain stimulator (DBS), pacemaker, cochlear implants are already in the market and they have been crucial for improving quality of life of patients. There are still great demand for developing newer and better technologies for many other biomedical applications for chronic diseases. To realize smaller, more accurate and highly reliable sensors for wearable and implantable devices, fabrication of miniaturized devices utilizing non-traditional techniques like microelectromechanical systems (MEMS) technique has been widely studied. In this Special Issue of Micromachines, we highlight the study on both wearable and implantable physiological and electrochemical sensors for biomedical applications, including but not limited to the devices such as electroencephalograph (EEG); electromyography (EMG); electrocorticogram (EMG); electrocardiograph (ECG); neural signal recorder; sweat sensor; micro element sensors; pH sensors; glucose sensors; pulse sensors; neural stimulators; and retinal prosthesis.







an Open Access Journal by MDPI

## **Editor-in-Chief**

## Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication i n *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

# **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases. **Journal Rank:** JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q2 (*Mechanical Engineering*)

# Contact Us

*Micromachines* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/micromachines micromachines@mdpi.com X@micromach\_mdpi