Special Issue

Progress in Electrochemical Sensors

Message from the Guest Editors

Electrochemical sensors, normally as a type of liquid-based sensing devices, present distinguished advantages in comparison with traditional solid-state detection instruments. The device employs the electrochemical reaction in the electrolyte system as the readout mechanism to transduce various input signals, such as mechanical, electrical or optical stimulus, to the electrical output. This electrolyte-ion-based working principle provides not only a high performance, such as high resolution, low noise floor, high dynamic range, and wide bandwidth, but also the flexibility of deployment, e.g., high shock tolerance, short settle down time, and gravity independence. This Special Issue is to present the most recent advancement in electrochemical sensors related research to the micromachines society.

- Electrochemical sensors
- molecular–electronic transducers
- liquid-based sensing devices

Guest Editors

Prof. Dr. Hongyu Yu

Dr. Vadim M. Agafonov

Prof. Dr. Junbo Wang

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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

mdpi.com/journal/micromachines

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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

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