Special Issue

Nanomaterials-Based Sensors for Biomedical Monitoring

Message from the Guest Editor

The development of new optimized sensing devices is crucial for modern preventive medicine, being primarily responsible for high-resolution monitoring of human biochemical and bioelectrical activity. For the medical device industry, it is very important to obtain the right type of sensor, which lasts for a long time and assists in recording high-quality signals. The sensor comprises the first stage of the signal chain and, therefore, plays a key role in the overall noise and performance of the acquisition system. The ability to produce new materials sculpted at the nanoscale offers the possibility to target very specific functions with biocompatibility, lightness, comfort, and integrated usability. This specific topic of the Special Issue aims to bring an significant contribution to the field of sensing, including, but not limited to, the following topics:

- Nanomaterials-based sensors for bioelectrical detection;
- Nanomaterials-based sensors for biochemical detection;
- New technologies applied to the development of nanomaterials-based sensors;
- New designs for biomedical health monitoring systems.

Guest Editor

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Message from the Editor-in-Chief

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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