

Special Issue

Biophysical Sensors for Biomedical/Health Monitoring Applications

Message from the Guest Editor

Engineering control over materials forms and structures provides tissue-compliant, flexible, and stretchable classes of biophysical sensors and microsystems that facilitate both fundamental biological research and biomedical diagnosis. Examples of recent advanced systems combine theoretical and experimental efforts in materials (e.g., metal, semiconductor, carbon, liquid metal) and sensory transduction (e.g., piezoresistive, acoustic waves, optical, capacitive) for monitoring diverse biophysical signals (e.g., strain, pressure, ultrasound, temperature, vibration). The complete systems are well configured for a range of applications, such as human health monitoring, robotic prosthesis control, acoustic-based care systems, and measuring activities inside the body. This Special Issue aims to highlight recent advanced biophysical sensors in such biocompatible configurations.

Guest Editor

Dr. Sang Min Won

Department of Electrical and Computer Engineering, Sungkyunkwan University, Seoul 16419, Republic of Korea

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

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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, Via della
Laustruccia 3, 50019 Sesto Fiorentino, Italy

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